



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 09:58 PM GMT

PDB ID : 4V4H
Title : Crystal structure of the bacterial ribosome from Escherichia coli in complex with the antibiotic kasugamyin at 3.5Å resolution.
Authors : Schuwirth, B.S.; Vila-Sanjurjo, A.; Cate, J.H.D.
Deposited on : 2006-08-04
Resolution : 3.46 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
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

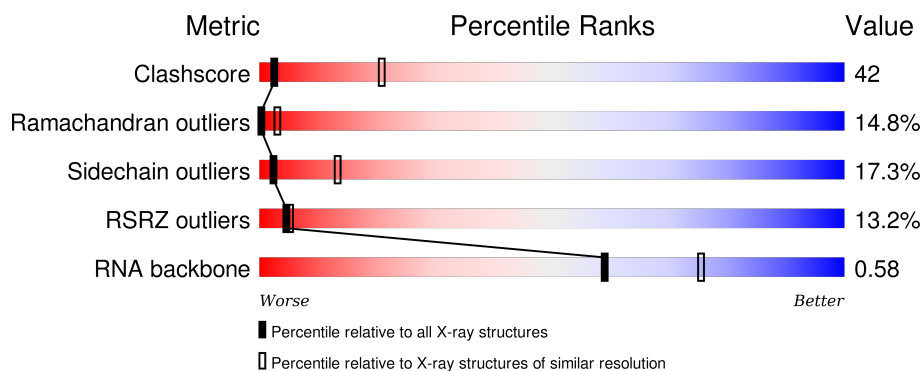
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.46 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))
Clashscore	102246	1090 (3.56-3.36)
Ramachandran outliers	100387	1057 (3.56-3.36)
Sidechain outliers	100360	1058 (3.56-3.36)
RSRZ outliers	91569	1005 (3.56-3.36)
RNA backbone	2183	1045 (4.10-2.80)

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

Mol	Chain	Length	Quality of chain
1	AA	1542	<div> <div>2%</div> <div>23% 63% 13%</div> </div>
1	CA	1542	<div> <div>%</div> <div>22% 64% 12%</div> </div>
2	AC	233	<div> <div>12%</div> <div>25% 52% 11% 12%</div> </div>
2	CC	233	<div> <div>5%</div> <div>30% 45% 12% 12%</div> </div>
3	AD	206	<div> <div>22%</div> <div>31% 51% 16%</div> </div>

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	CD	206	
4	AE	167	
4	CE	167	
5	AF	135	
5	CF	135	
6	AG	179	
6	CG	179	
7	AH	130	
7	CH	130	
8	AI	130	
8	CI	130	
9	AJ	103	
9	CJ	103	
10	AK	129	
10	CK	129	
11	AL	124	
11	CL	124	
12	AM	118	
12	CM	118	
13	AN	101	
13	CN	101	
14	AO	89	
14	CO	89	
15	AP	82	
15	CP	82	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
16	AQ	84	
16	CQ	84	
17	AR	75	
17	CR	75	
18	AS	92	
18	CS	92	
19	AT	87	
19	CT	87	
20	AB	241	
20	CB	241	
21	AU	71	
21	CU	71	
22	BA	120	
22	DA	120	
23	BB	2904	
23	DB	2904	
24	BV	94	
24	DV	94	
25	BC	273	
25	DC	273	
26	BD	209	
26	DD	209	
27	BE	201	
27	DE	201	
28	BF	179	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
28	DF	179	
29	BG	177	
29	DG	177	
30	BH	149	
30	DH	149	
31	BJ	142	
31	DJ	142	
32	BK	123	
32	DK	123	
33	BL	144	
33	DL	144	
34	BM	136	
34	DM	136	
35	BN	127	
35	DN	127	
36	BO	117	
36	DO	117	
37	BP	115	
37	DP	115	
38	BQ	118	
38	DQ	118	
39	BR	103	
39	DR	103	
40	BS	110	
40	DS	110	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
41	BT	100	
41	DT	100	
42	BU	104	
42	DU	104	
43	BW	85	
43	DW	85	
44	BX	63	
44	DX	63	
45	BY	59	
45	DY	59	
46	BZ	70	
46	DZ	70	
47	B0	57	
47	D0	57	
48	B1	55	
48	D1	55	
49	B2	46	
49	D2	46	
50	B3	65	
50	D3	65	
51	B4	38	
51	D4	38	
52	BI	142	
52	DI	142	

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
53	KSG	AA	1601	-	-	-	X
53	KSG	CA	1601	-	-	-	X
54	MG	BB	3086	-	-	-	X
54	MG	BB	3100	-	-	-	X
54	MG	DB	3082	-	-	-	X

2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 284160 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 RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1530	Total	C	N	O	P	0	0	0
			32831	14642	6024	10635	1530			
1	CA	1530	Total	C	N	O	P	0	0	0
			32831	14642	6024	10635	1530			

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AC	206	Total	C	N	O	S	0	0	0
			1624	1028	305	288	3			
2	CC	206	Total	C	N	O	S	0	0	0
			1624	1028	305	288	3			

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			
3	CD	205	Total	C	N	O	S	0	0	0
			1643	1026	315	298	4			

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AE	150	Total	C	N	O	S	0	0	0
			1105	687	211	201	6			
4	CE	150	Total	C	N	O	S	0	0	0
			1105	687	211	201	6			

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AF	100	Total	C	N	O	S	0	0	0
			817	515	148	148	6			
5	CF	100	Total	C	N	O	S	0	0	0
			817	515	148	148	6			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AG	150	Total	C	N	O	S	0	0	0
			1174	730	226	214	4			
6	CG	152	Total	C	N	O	S	0	0	0
			1196	745	230	217	4			

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			
7	CH	129	Total	C	N	O	S	0	0	0
			979	616	173	184	6			

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			
8	CI	127	Total	C	N	O	S	0	0	0
			1022	634	206	179	3			

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AJ	98	Total	C	N	O	S	0	0	0
			786	493	150	142	1			
9	CJ	98	Total	C	N	O	S	0	0	0
			786	493	150	142	1			

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CK	117	Total	C	N	O	S	0	0	0
			877	540	174	160	3			

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			
11	CL	123	Total	C	N	O	S	0	0	0
			955	590	196	165	4			

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AM	114	Total	C	N	O	S	0	0	0
			883	546	178	156	3			
12	CM	113	Total	C	N	O	S	0	0	0
			876	541	177	155	3			

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			
13	CN	96	Total	C	N	O	S	0	0	0
			774	483	160	128	3			

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AO	88	Total	C	N	O	S	0	0	0
			716	440	146	129	1			
14	CO	88	Total	C	N	O	S	0	0	0
			716	440	146	129	1			

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AP	82	Total	C	N	O	S	0	0	0
			649	406	128	114	1			
15	CP	80	Total	C	N	O	S	0	0	0
			638	400	126	111	1			

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AQ	80	Total	C	N	O	S	0	0	0
			648	411	121	113	3			
16	CQ	81	Total	C	N	O	S	0	0	0
			657	417	122	115	3			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	AR	55	Total	C	N	O	0	0	0
			455	288	86	81			
17	CR	55	Total	C	N	O	0	0	0
			455	288	86	81			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AS	79	Total	C	N	O	S	0	0	0
			637	408	120	107	2			
18	CS	80	Total	C	N	O	S	0	0	0
			644	413	121	108	2			

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			
19	CT	85	Total	C	N	O	S	0	0	0
			665	411	137	114	3			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AB	218	Total	C	N	O	S	0	0	0
			1704	1081	305	311	7			
20	CB	218	Total	C	N	O	S	0	0	0
			1704	1081	305	311	7			

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	AU	51	Total	C	N	O	S	0	0	0
			425	265	86	73	1			
21	CU	51	Total	C	N	O	S	0	0	0
			425	265	86	73	1			

- Molecule 22 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	BA	117	Total	C	N	O	P	0	0	0
			2507	1116	459	815	117			
22	DA	117	Total	C	N	O	P	0	0	0
			2507	1116	459	815	117			

- Molecule 23 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	BB	2841	Total	C	N	O	P	0	0	0
			60995	27210	11229	19715	2841			
23	DB	2841	Total	C	N	O	P	0	0	0
			60995	27210	11229	19715	2841			

- Molecule 24 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			
24	DV	94	Total	C	N	O	S	0	0	0
			753	479	137	134	3			

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BC	267	Total	C	N	O	S	0	0	0
			2053	1271	416	359	7			
25	DC	267	Total	C	N	O	S	0	0	0
			2053	1271	416	359	7			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	DD	209	Total	C	N	O	S	0	0	0
			1565	979	288	294	4			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			
27	DE	201	Total	C	N	O	S	0	0	0
			1552	974	283	290	5			

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BF	178	Total	C	N	O	S	0	0	0
			1420	905	251	258	6			
28	DF	178	Total	C	N	O	S	0	0	0
			1420	905	251	258	6			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			
29	DG	176	Total	C	N	O	S	0	0	0
			1323	832	243	246	2			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			
30	DH	149	Total	C	N	O	S	0	0	0
			1111	699	197	214	1			

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BJ	140	Total	C	N	O	S	0	0	0
			1112	704	210	194	4			
31	DJ	140	Total	C	N	O	S	0	0	0
			1112	704	210	194	4			

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BK	121	Total	C	N	O	S	0	0	0
			930	582	179	164	5			
32	DK	121	Total	C	N	O	S	0	0	0
			930	582	179	164	5			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BL	144	Total	C	N	O	S	0	0	0
			1053	654	207	190	2			
33	DL	144	Total	C	N	O	S	0	0	0
			1053	654	207	190	2			

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			
34	DM	136	Total	C	N	O	S	0	0	0
			1074	686	205	177	6			

- Molecule 35 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BN	127	Total	C	N	O	S	0	0	0
			1008	621	204	178	5			
35	DN	127	Total	C	N	O	S	0	0	0
			1008	621	204	178	5			

- Molecule 36 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BO	117	Total	C	N	O	S	0	0	0
			900	557	179	163	1			
36	DO	117	Total	C	N	O	S	0	0	0
			900	557	179	163	1			

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			
37	DP	114	Total	C	N	O	S	0	0	0
			917	574	179	163	1			

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BQ	117	Total	C	N	O	S	0	0	0
			947	604	192	151				
38	DQ	117	Total	C	N	O	S	0	0	0
			947	604	192	151				

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			
39	DR	103	Total	C	N	O	S	0	0	0
			816	516	153	145	2			

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			
40	DS	110	Total	C	N	O	S	0	0	0
			857	532	166	156	3			

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BT	99	Total	C	N	O	S	0	0	0
			777	491	145	139	2			
41	DT	99	Total	C	N	O	S	0	0	0
			777	491	145	139	2			

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BU	102	Total	C	N	O	S	0	0	0
			779	492	146	141				

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	DU	102	Total	C	N	O			
			779	492	146	141	0	0	0

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BW	84	Total	C	N	O	S			
			634	391	129	113	1	0	0	0
43	DW	84	Total	C	N	O	S			
			634	391	129	113	1	0	0	0

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BX	63	Total	C	N	O	S			
			509	313	99	95	2	0	0	0
44	DX	63	Total	C	N	O	S			
			509	313	99	95	2	0	0	0

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BY	58	Total	C	N	O	S			
			449	281	87	79	2	0	0	0
45	DY	58	Total	C	N	O	S			
			449	281	87	79	2	0	0	0

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BZ	70	Total	C	N	O	S			
			549	339	104	100	6	0	0	0
46	DZ	70	Total	C	N	O	S			
			549	339	104	100	6	0	0	0

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	B0	56	Total	C	N	O	S			
			444	269	94	80	1	0	0	0
47	D0	56	Total	C	N	O	S			
			444	269	94	80	1	0	0	0

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	B1	54	Total	C	N	O	0	0	0
			441	284	81	76			
48	D1	54	Total	C	N	O	0	0	0
			441	284	81	76			

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			
49	D2	46	Total	C	N	O	S	0	0	0
			377	228	90	57	2			

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			
50	D3	64	Total	C	N	O	S	0	0	0
			504	323	105	74	2			

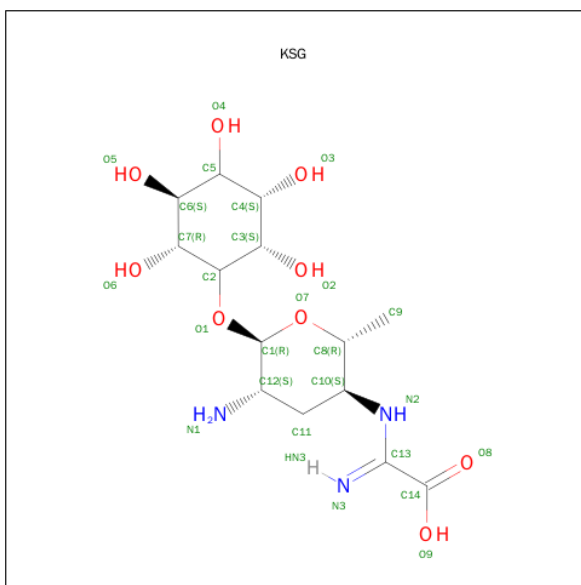
- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			
51	D4	38	Total	C	N	O	S	0	0	0
			302	185	65	48	4			

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			
52	DI	141	Total	C	N	O	S	0	0	0
			1032	651	179	196	6			

- Molecule 53 is (1S,2R,3S,4R,5S,6S)-2,3,4,5,6-PENTAHYDROXYCYCLOHEXYL 2-AMINO-4-{{[CARBOXY(IMINO)METHYL]AMINO}}-2,3,4,6-TETRADEOXY-ALPHA-D-ARABINO-HEXOPYRANOSIDE (three-letter code: KSG) (formula: C₁₄H₂₅N₃O₉).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
53	AA	1	Total	C	N	O	0	0
			26	14	3	9		
53	CA	1	Total	C	N	O	0	0
			26	14	3	9		

- Molecule 54 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
54	BB	110	Total	Mg	0	0
			110	110		
54	DE	1	Total	Mg	0	0
			1	1		
54	CA	62	Total	Mg	0	0
			62	62		
54	AA	60	Total	Mg	0	0
			60	60		
54	DN	1	Total	Mg	0	0
			1	1		
54	DB	109	Total	Mg	0	0
			109	109		

- Molecule 55 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	AA	289	Total	O	0	0
			289	289		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	AE	3	Total 3	O 3	0	0
55	AK	2	Total 2	O 2	0	0
55	AN	3	Total 3	O 3	0	0
55	AP	2	Total 2	O 2	0	0
55	AT	1	Total 1	O 1	0	0
55	BB	497	Total 497	O 497	0	0
55	BC	1	Total 1	O 1	0	0
55	BE	5	Total 5	O 5	0	0
55	BH	1	Total 1	O 1	0	0
55	BL	2	Total 2	O 2	0	0
55	BN	1	Total 1	O 1	0	0
55	CA	293	Total 293	O 293	0	0
55	CE	3	Total 3	O 3	0	0
55	CK	1	Total 1	O 1	0	0
55	CL	4	Total 4	O 4	0	0
55	CN	3	Total 3	O 3	0	0
55	CP	1	Total 1	O 1	0	0
55	CT	3	Total 3	O 3	0	0
55	DB	501	Total 501	O 501	0	0
55	DC	1	Total 1	O 1	0	0
55	DD	1	Total 1	O 1	0	0

Continued on next page...

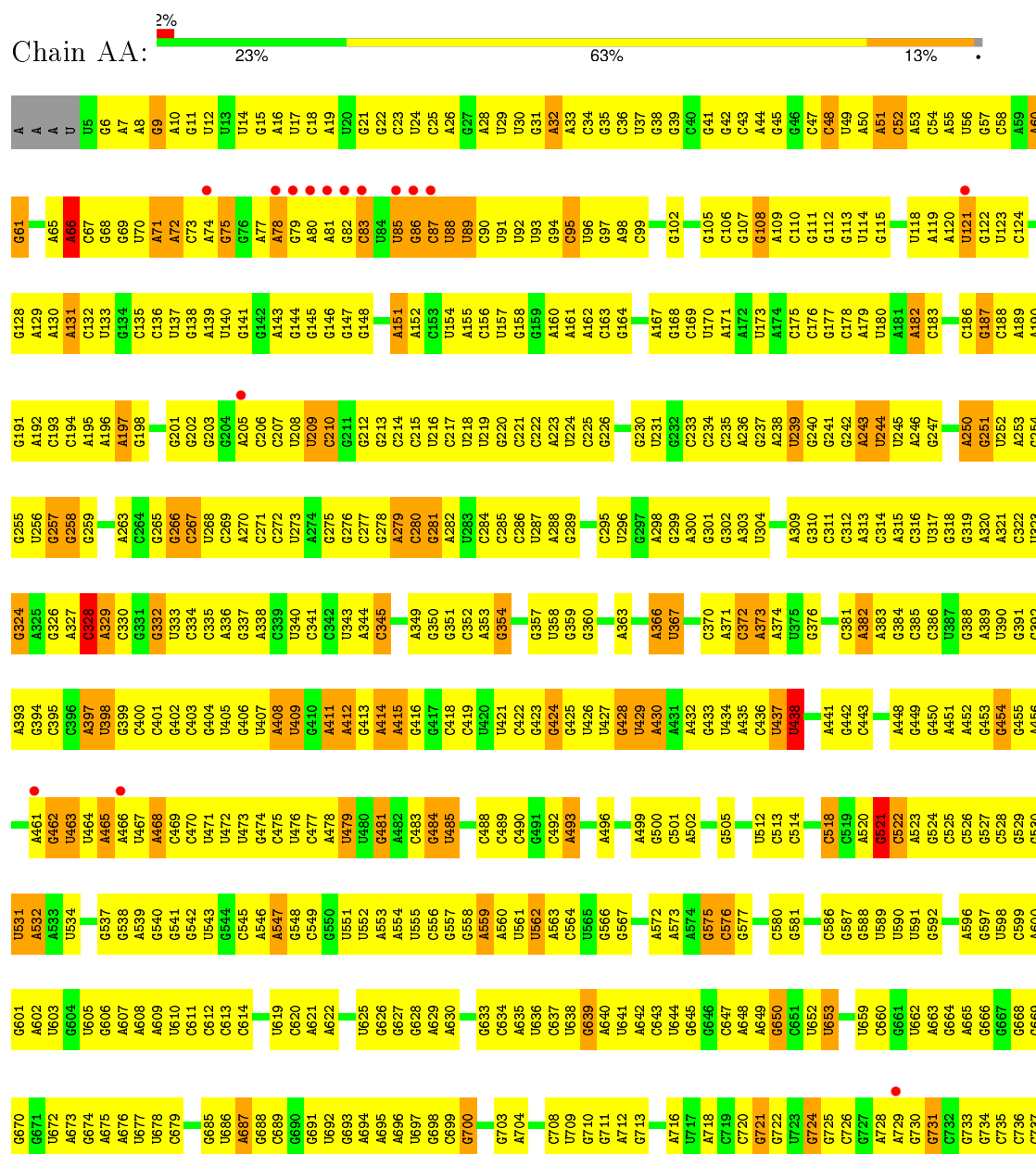
Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
55	DE	3	Total 3	O 3	0	0
55	DL	1	Total 1	O 1	0	0
55	DN	2	Total 2	O 2	0	0
55	DT	1	Total 1	O 1	0	0
55	D2	2	Total 2	O 2	0	0

3 Residue-property plots

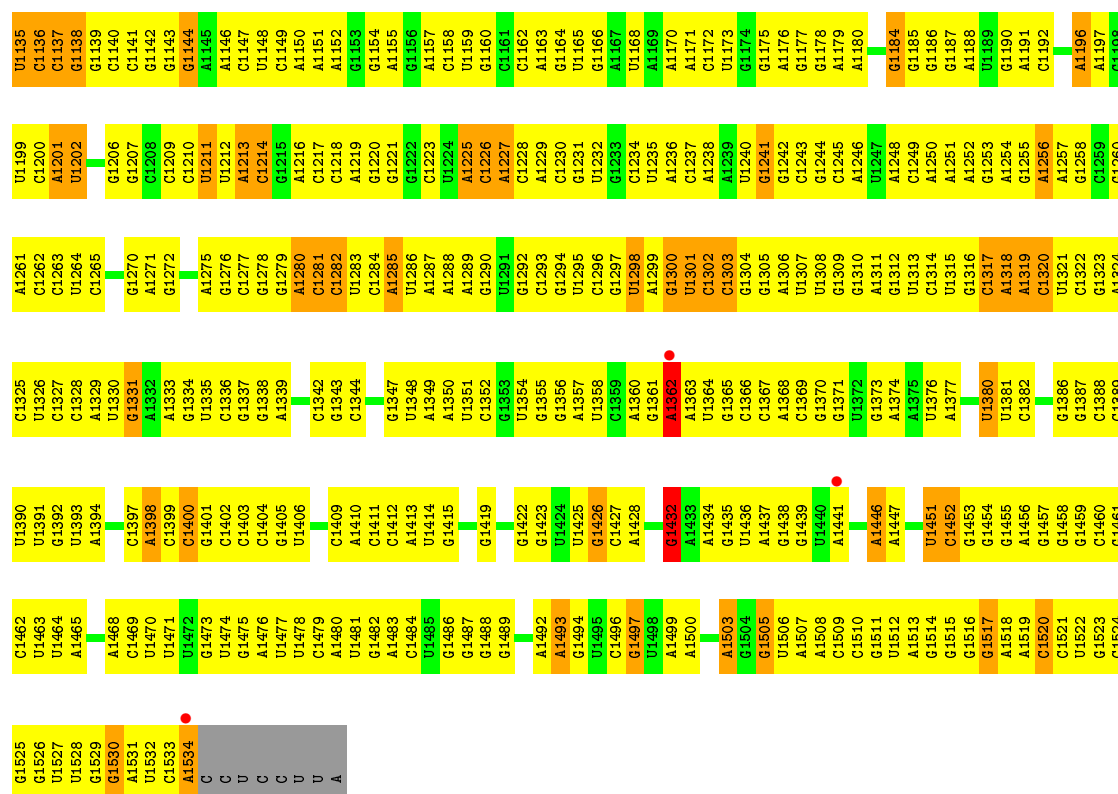
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according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

• Molecule 1: 16S RIBOSOMAL RNA

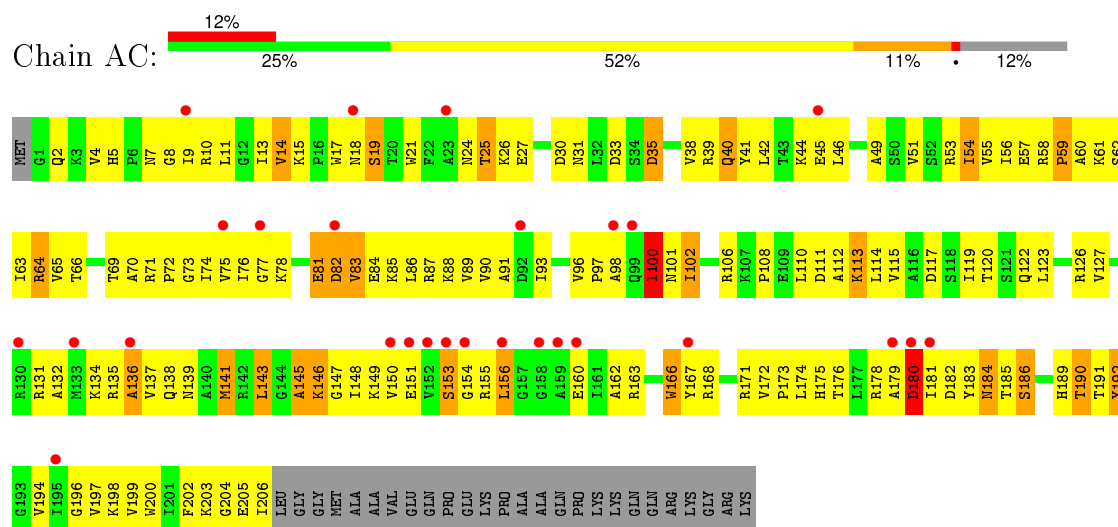




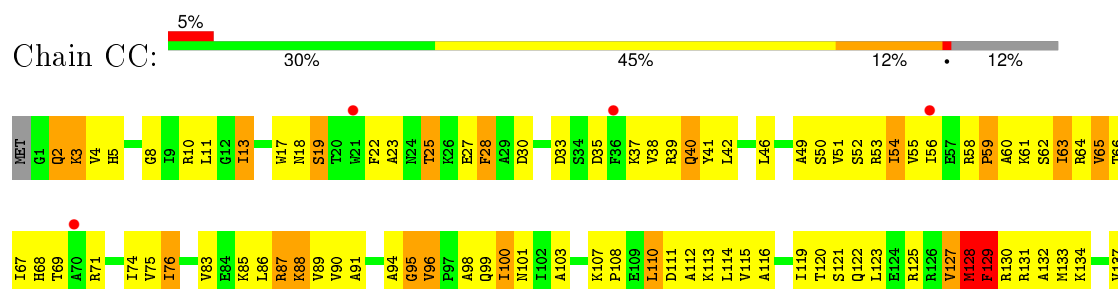


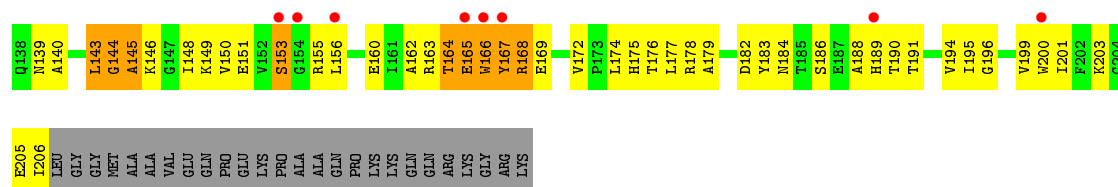


• Molecule 2: 30S RIBOSOMAL PROTEIN S3

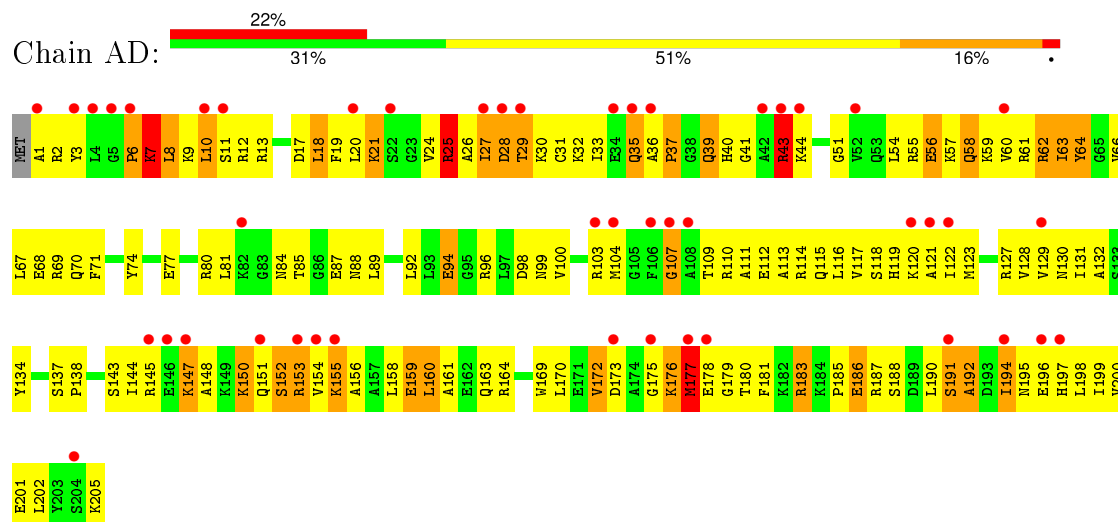


• Molecule 2: 30S RIBOSOMAL PROTEIN S3

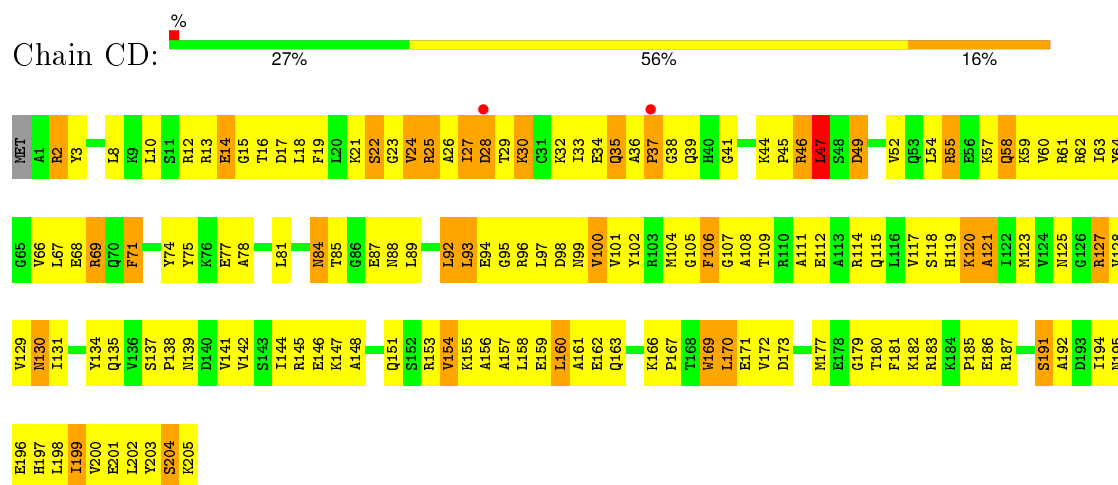




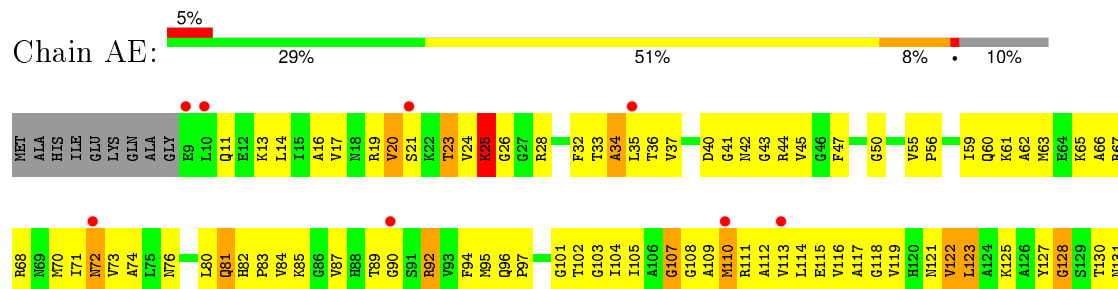
• Molecule 3: 30S RIBOSOMAL PROTEIN S4



• Molecule 3: 30S RIBOSOMAL PROTEIN S4

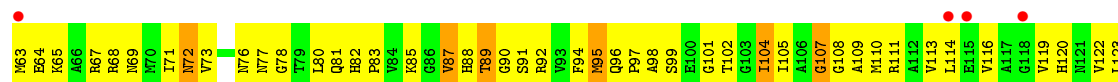


• Molecule 4: 30S RIBOSOMAL PROTEIN S5

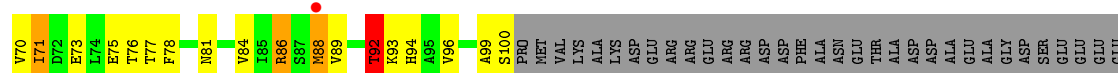
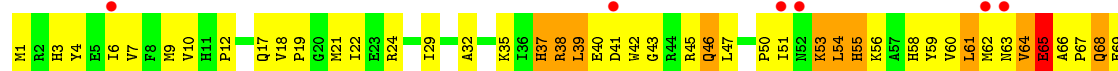




• Molecule 4: 30S RIBOSOMAL PROTEIN S5

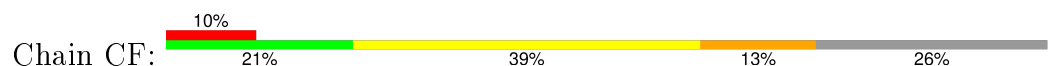


• Molecule 5: 30S RIBOSOMAL PROTEIN S6



GLU
GLU

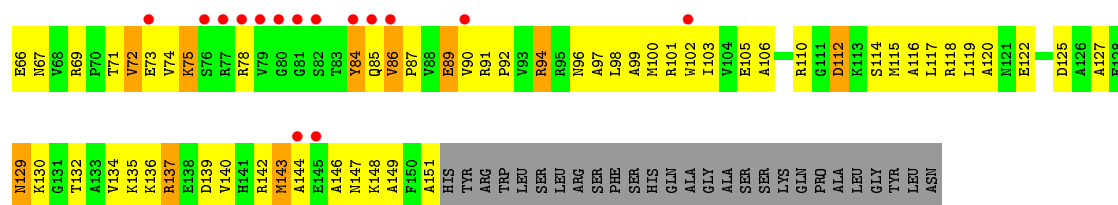
• Molecule 5: 30S RIBOSOMAL PROTEIN S6



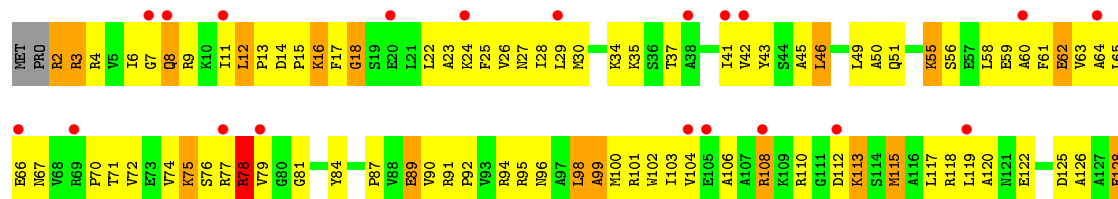
GLU
GLU
GLU
GLU

• Molecule 6: 30S RIBOSOMAL PROTEIN S7

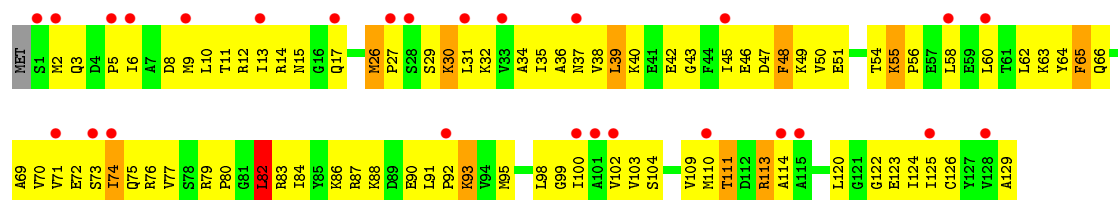




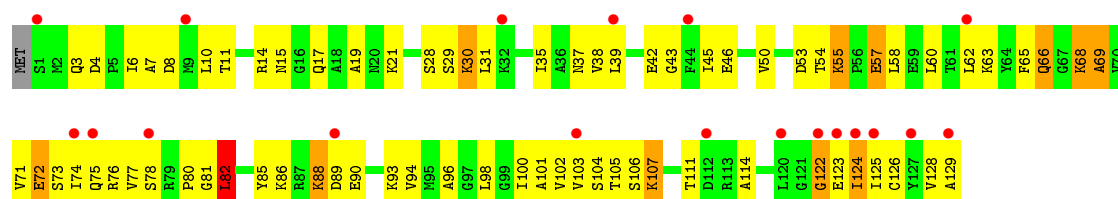
• Molecule 6: 30S RIBOSOMAL PROTEIN S7



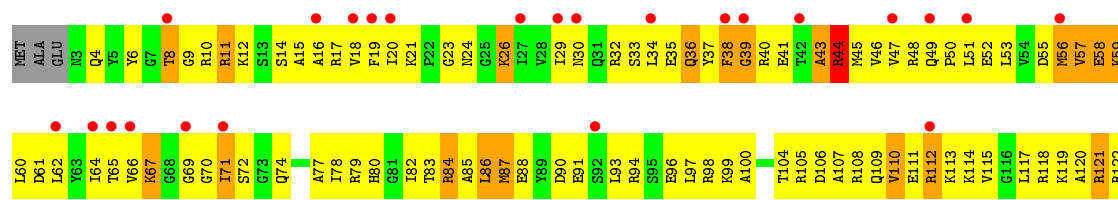
• Molecule 7: 30S RIBOSOMAL PROTEIN S8

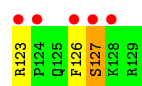


• Molecule 7: 30S RIBOSOMAL PROTEIN S8

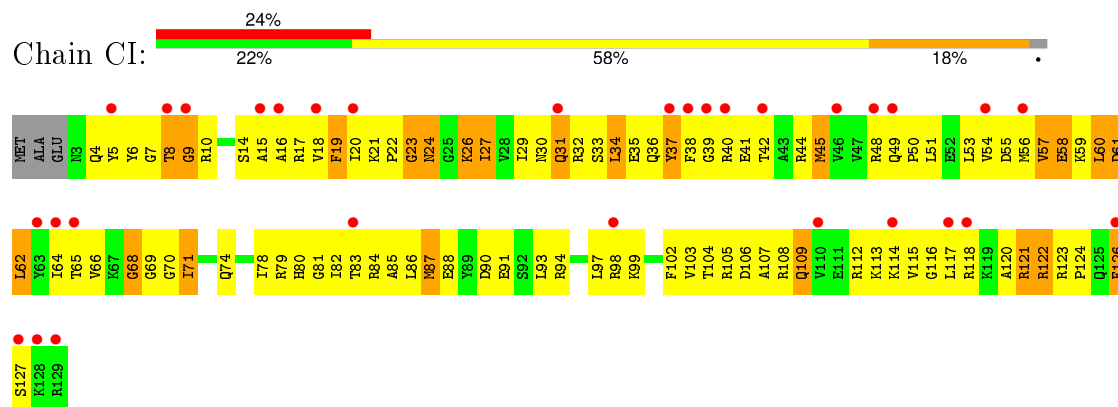


• Molecule 8: 30S RIBOSOMAL PROTEIN S9

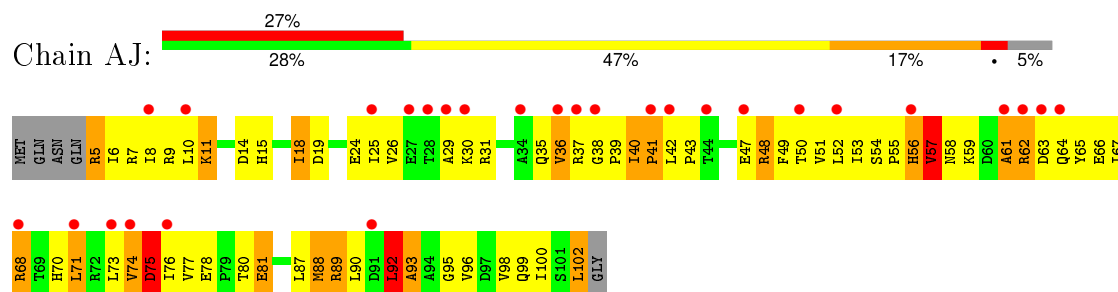




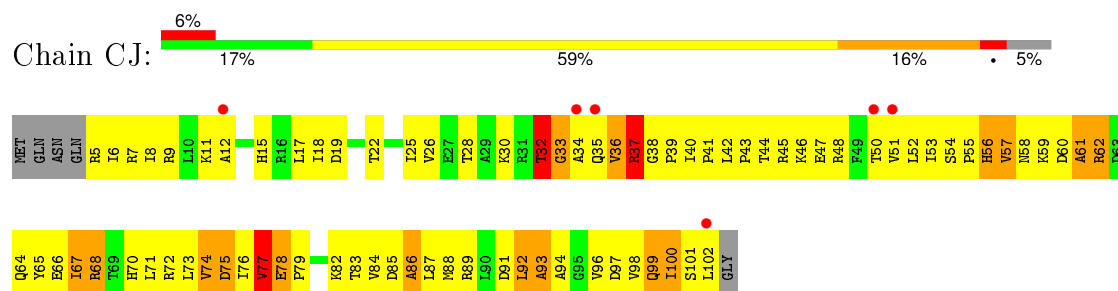
• Molecule 8: 30S RIBOSOMAL PROTEIN S9



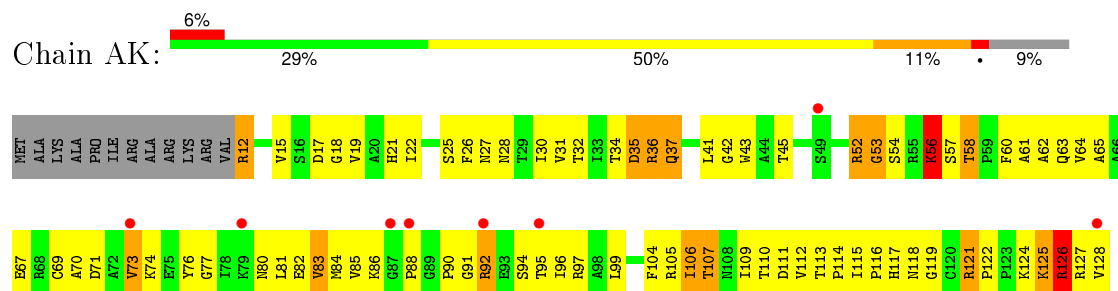
• Molecule 9: 30S RIBOSOMAL PROTEIN S10



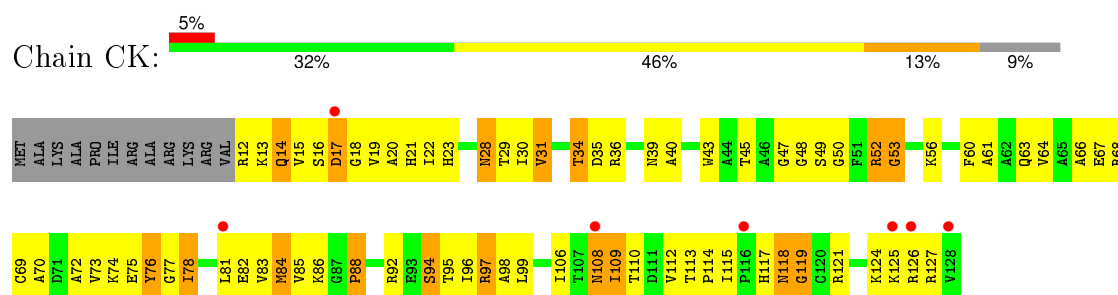
• Molecule 9: 30S RIBOSOMAL PROTEIN S10



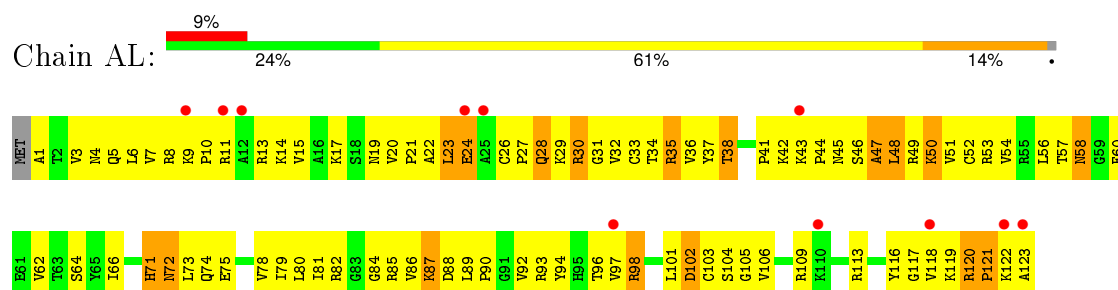
• Molecule 10: 30S RIBOSOMAL PROTEIN S11



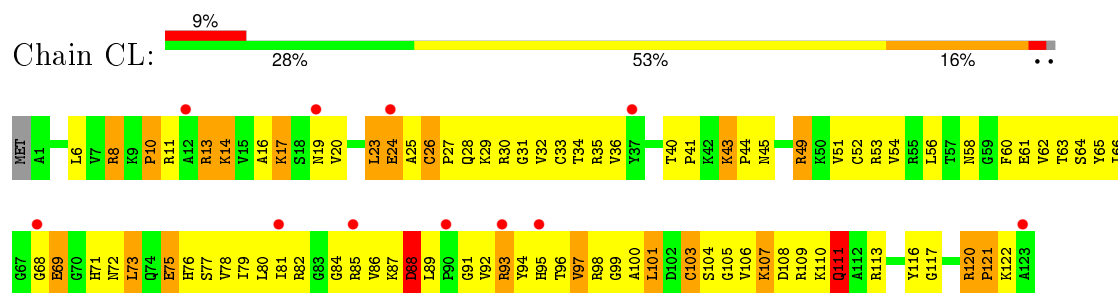
• Molecule 10: 30S RIBOSOMAL PROTEIN S11



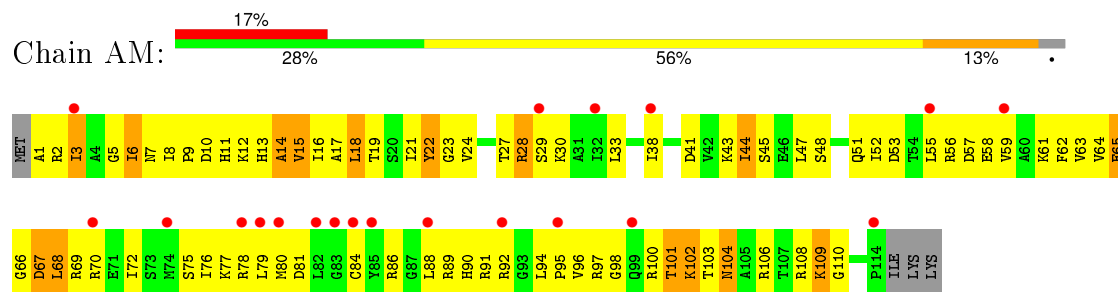
• Molecule 11: 30S RIBOSOMAL PROTEIN S12



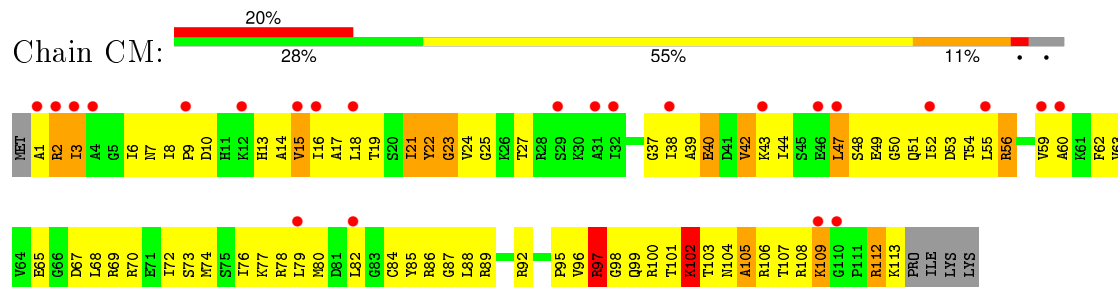
- Molecule 11: 30S RIBOSOMAL PROTEIN S12



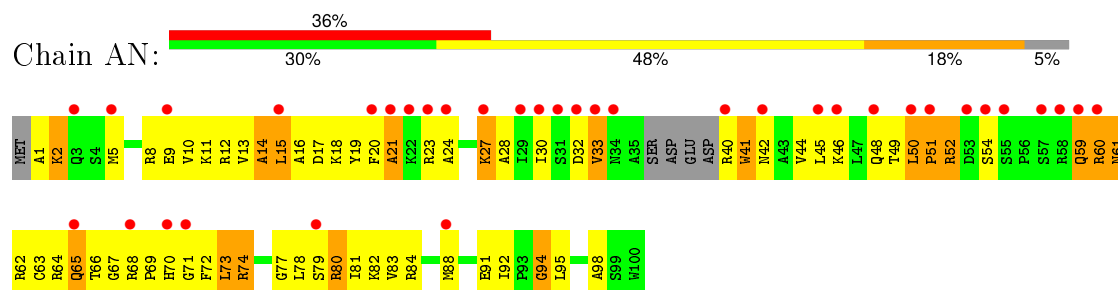
● Molecule 12: 30S RIBOSOMAL PROTEIN S13



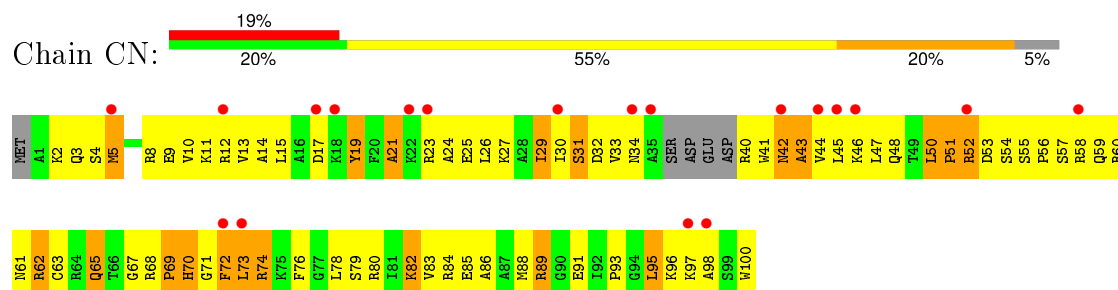
● Molecule 12: 30S RIBOSOMAL PROTEIN S13



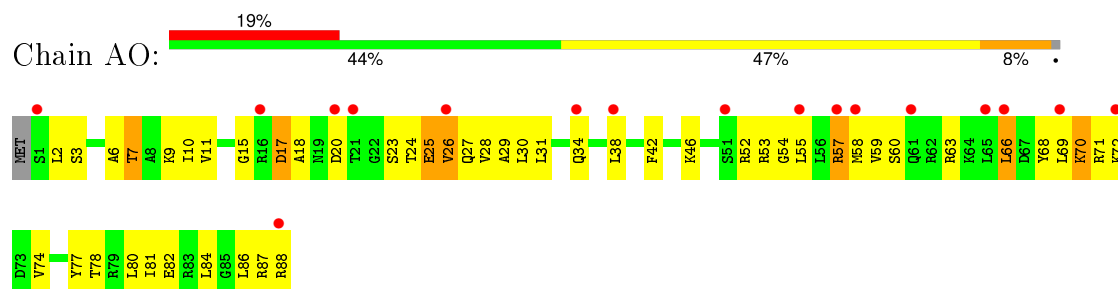
• Molecule 13: 30S RIBOSOMAL PROTEIN S14



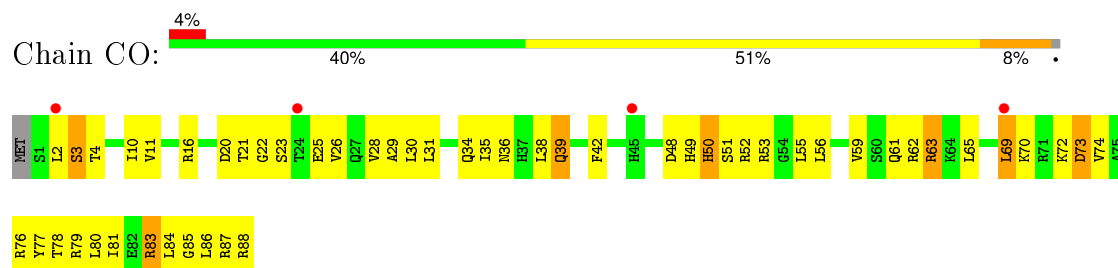
• Molecule 13: 30S RIBOSOMAL PROTEIN S14



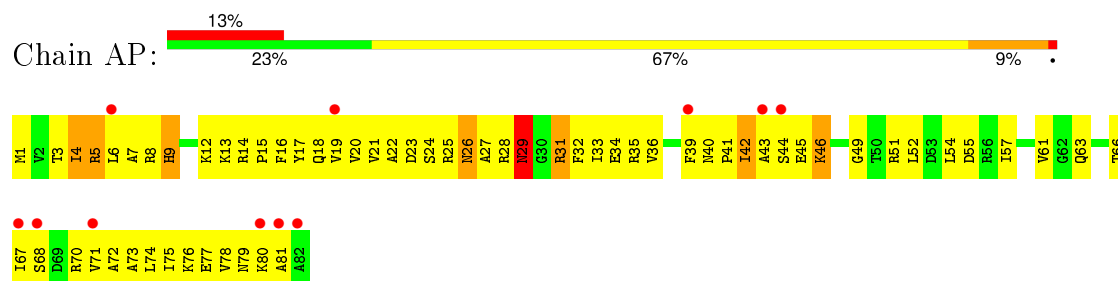
• Molecule 14: 30S RIBOSOMAL PROTEIN S15



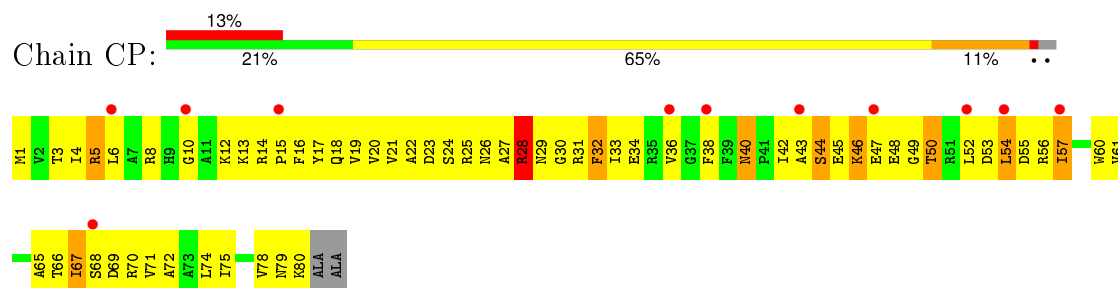
• Molecule 14: 30S RIBOSOMAL PROTEIN S15



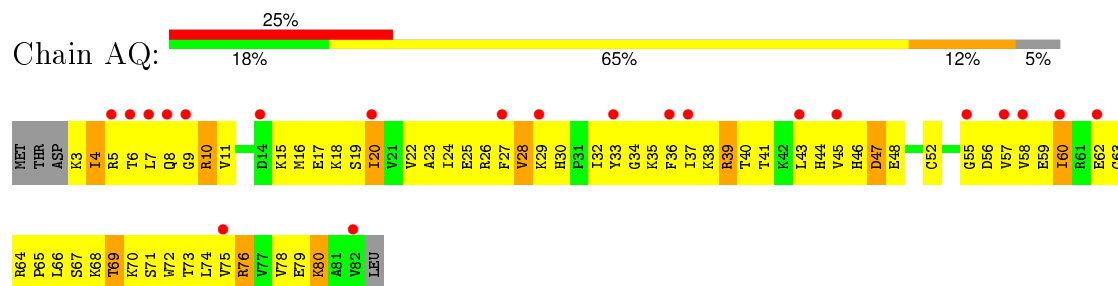
• Molecule 15: 30S RIBOSOMAL PROTEIN S16



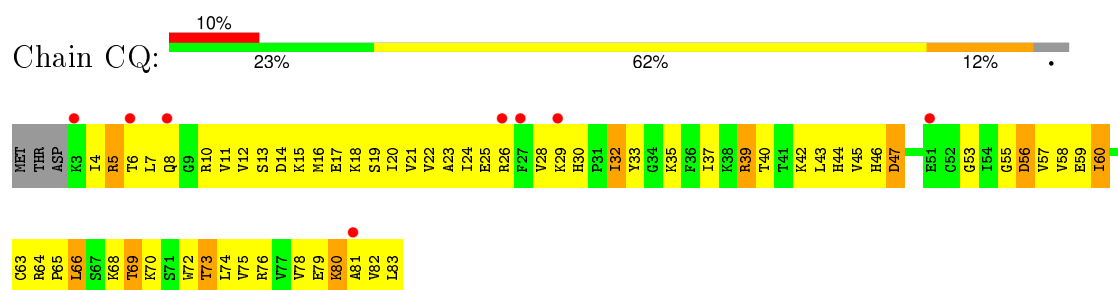
- Molecule 15: 30S RIBOSOMAL PROTEIN S16



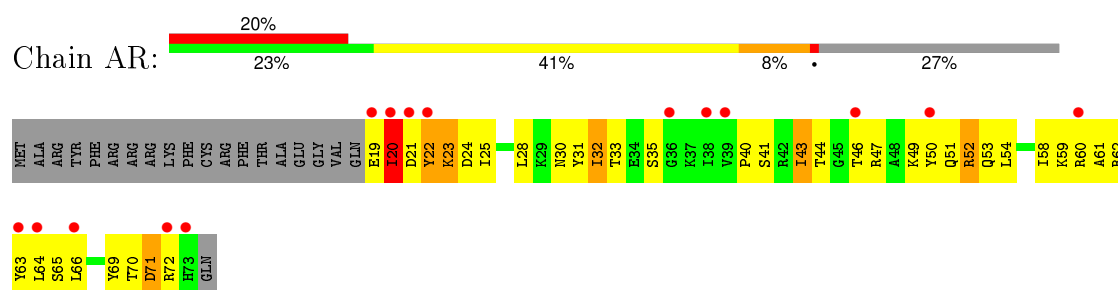
- Molecule 16: 30S RIBOSOMAL PROTEIN S17



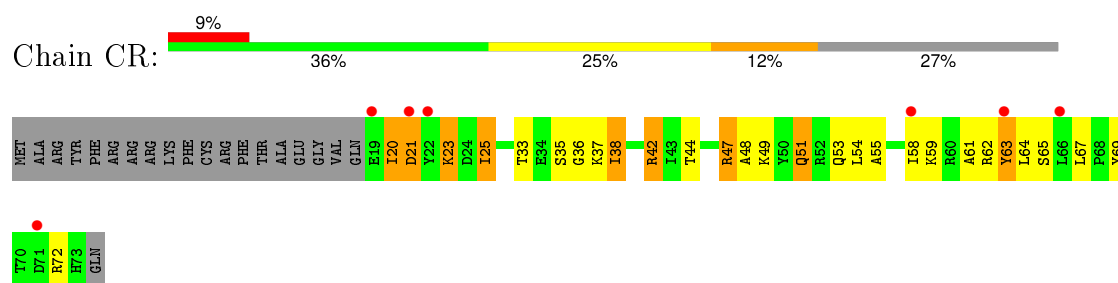
- Molecule 16: 30S RIBOSOMAL PROTEIN S17



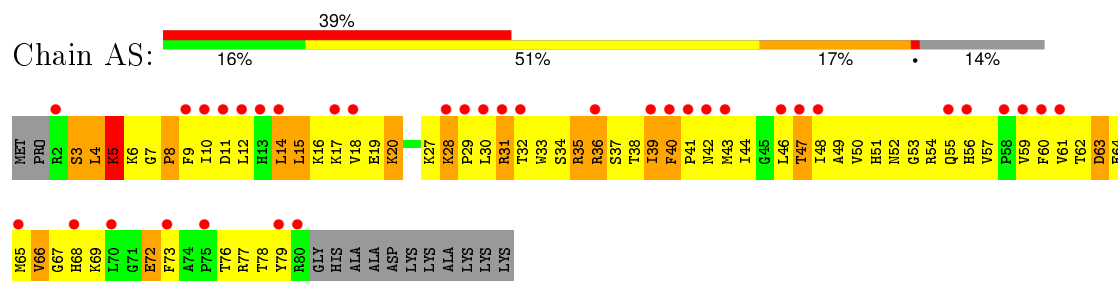
- Molecule 17: 30S RIBOSOMAL PROTEIN S18



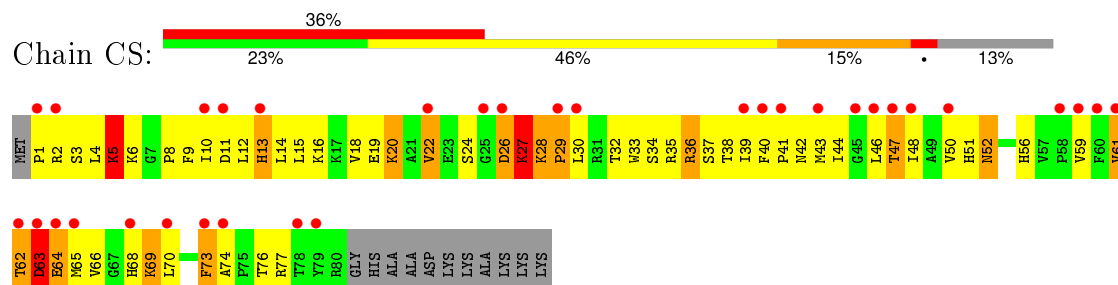
- Molecule 17: 30S RIBOSOMAL PROTEIN S18



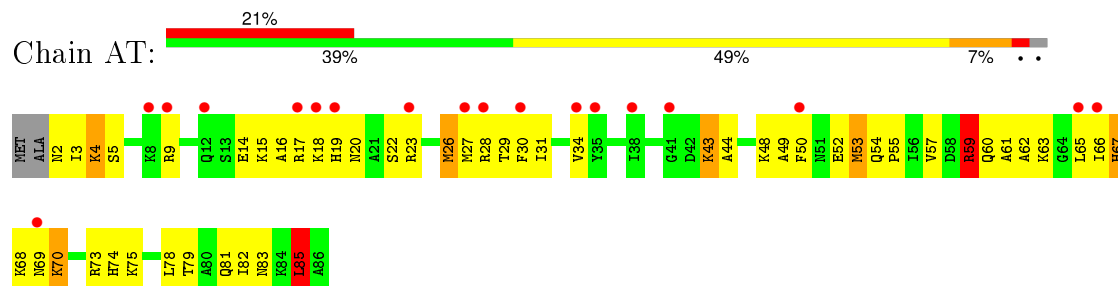
- Molecule 18: 30S RIBOSOMAL PROTEIN S19



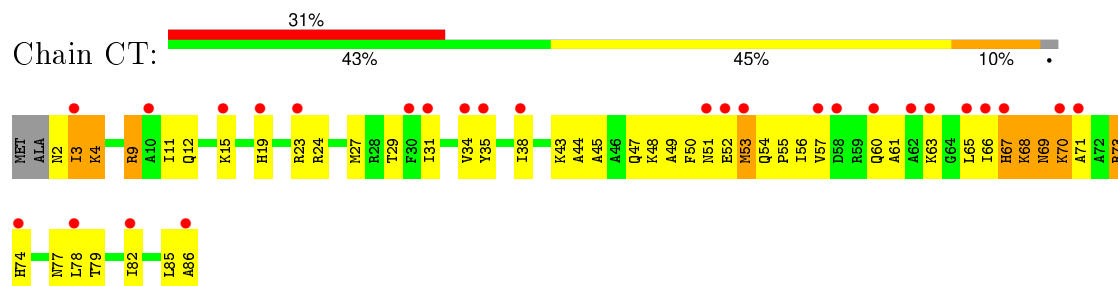
- Molecule 18: 30S RIBOSOMAL PROTEIN S19



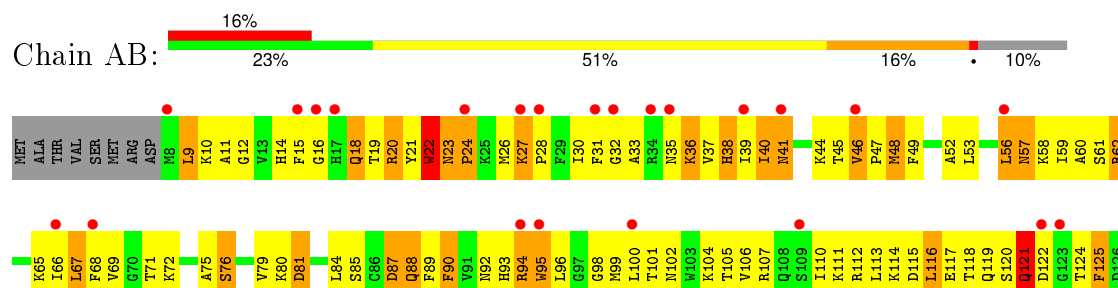
- Molecule 19: 30S RIBOSOMAL PROTEIN S20

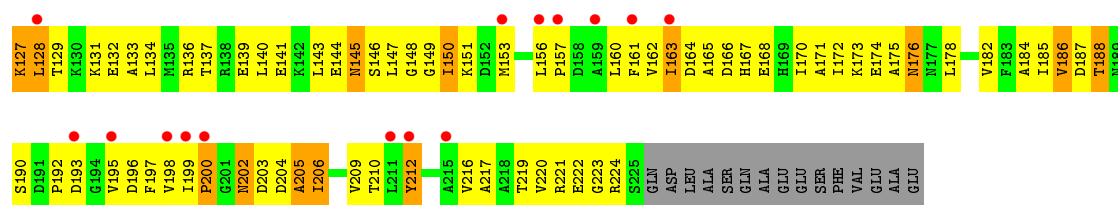


- Molecule 19: 30S RIBOSOMAL PROTEIN S20

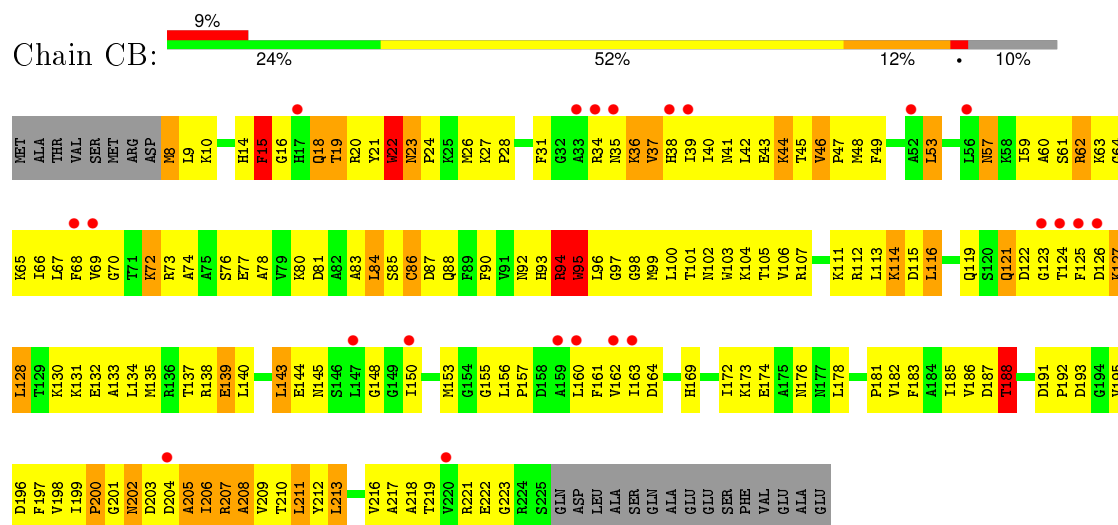


- Molecule 20: 30S RIBOSOMAL PROTEIN S2

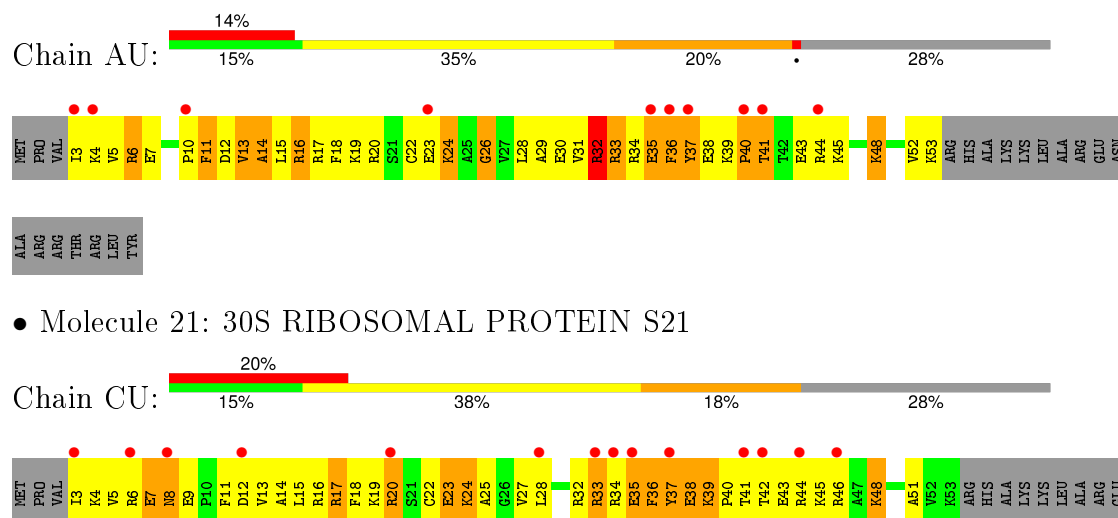




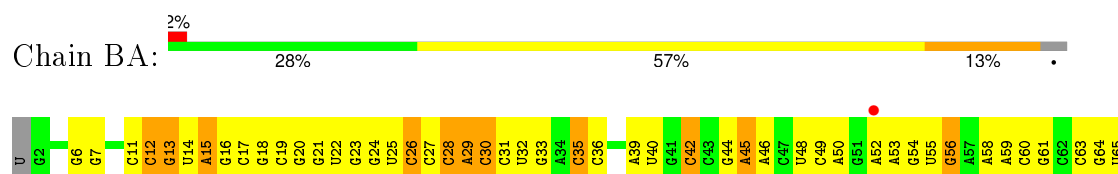
• Molecule 20: 30S RIBOSOMAL PROTEIN S2

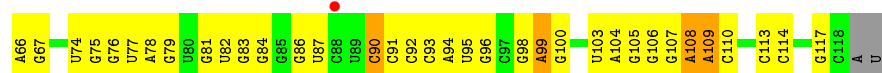


• Molecule 21: 30S RIBOSOMAL PROTEIN S21

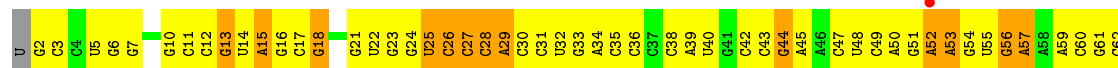


• Molecule 22: 5S RIBOSOMAL RNA

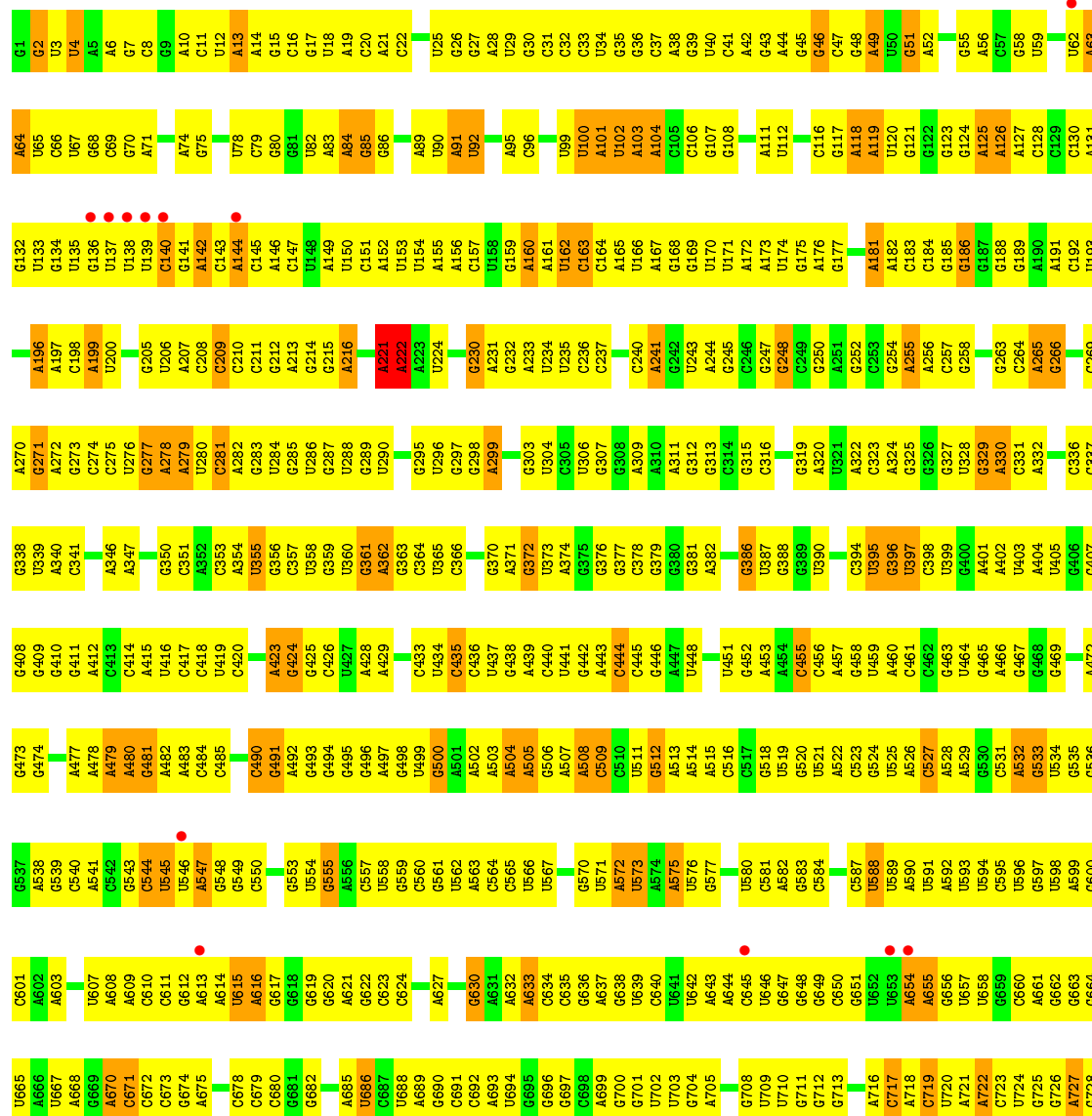




• Molecule 22: 5S RIBOSOMAL RNA

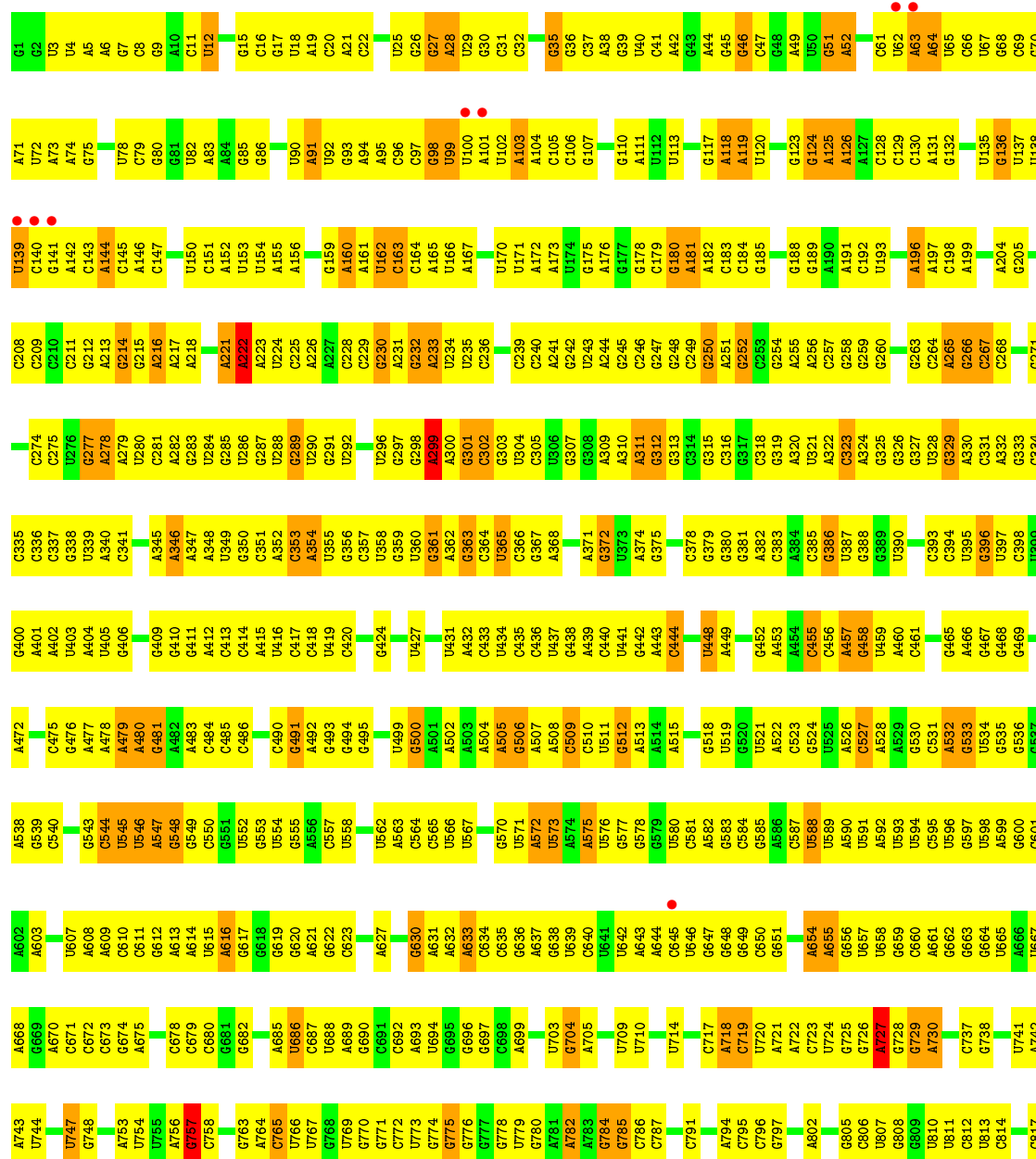


• Molecule 23: 23S RIBOSOMAL RNA



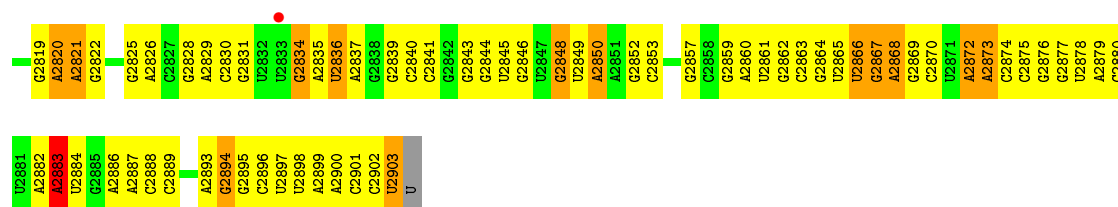
A1665	U1589	G1524	U1457	U1396	A1322	U1255	G1192	U1061	C986	A933	U870	C806	G729
G1666	A1590	A1525	U1458	U1397	C1323	G1256	G1193	G1062	U999	U934	U871	U807	A730
G1667	A1591	G1526	G1459	C1398	G1324	C1257	A1194	G1063	A1000	C935	U872	U808	C731
A1668	C1592	G1527	C1399	U1460	U1325	U1258	A1195	C1064	A1001	A936			
C1669	A1593	A1528	C1461	U1400	U1326	G1259	G1196	U1065	G1002	C937	G875	U811	C737
C1670	U1594	G1529	C1462	G1401	A1327	A1260	C1197					U812	G738
C1595	G1530	C1463	C1463	U1402	A1328		U1198	G1068	C1005	A941	C876	U813	A739
C1531	C1531	G1464	G1464	A1403	U1329	U1263	U1199	A1069	C1006	G942	A877	U814	C740
A1532	A1532	G1465	G1465	C1404	C1330		C1200	A1070	C1007	A943	G		U741
C1533	C1533	U1466	U1466	U1405	G1331	G1266	U1201	G1071	A1008		G	C817	A742
U1534	U1534	U1467	U1467	U1406	G1332	U1267	G1202	A1009	C1072	C946	G	A819	A743
A1535	A1535	U1468	U1468	G1407	U1337	A1268	U1203	A1010	U1010	A947	G	A820	U744
C1536	C1536	G1469	G1469	G1408	G1337	A1269	U1204	A1073	G1074	C948	G	A821	
G1537	G1537	A1470	A1470	U1409		C1270	A1205	C1075	U1012	G949	U	A822	U747
U1538	U1538	G1471	G1471	U1410	G1341	G1271	C1206	A1076	C1013	G950	C	G823	G748
G1539	G1539			U1411		A1272	C1207	A1077	A1014	C951	A		
G1474	U1474	U1474	U1474	U1412	C1345	U1273	G1210	U1078	U1015	G952	U	U824	A751
C1541	C1541	G1475	G1475	A1413	G1346	A1274	C1211	G1079	G1016	G953	C	A825	A752
U1542	U1542	U1476	U1476	A1414	A1347	A1275	G1212	A1080	U1017	G954	C	U826	A753
G1543	G1543	U1477	U1477	U1415		A1276	A1213	U1081	U1018	U955	C	U827	U754
A1544	A1544	G1478	G1478	G1416	C1351		G1214	U1082	U1019	U956	G	U828	U755
A1545	A1545	G1479	G1479	C1417	U1352	U1281	A1215	U1083	A1020	C957	A	A829	A756
G1546	G1546	C1480	C1480	U1481	A1353	U1282	G1216	U1084	A1021	U958	C	G830	G757
C1547	C1547	U1481	U1481	A1419	A1354	G1283	G1217	A1085	G1022	A959	U	G831	C758
A1548	A1548	G1482	G1482	A1420	G1355	A1284	U1217	A1086	U1023	A960	U	U832	G759
A1549	A1549	G1483	G1483	G1421	G1356	A1285	G1218	G1087	G1024	C961	A	A833	G760
C1550	C1550	U1484	U1484	G1422	C1357	A1286	U1219	A1088	G1025	G962	C	G834	
A1551	A1551	U1485	U1485	G1423	G1358	A1287	G1220	A1089	G1026	C998		G835	G763
A1552	A1552	U1486	U1486	G1424	A1359	U1288	G1221	A1090	A1027	A899		G836	A764
U1553	U1553	U1487	U1487	G1425	G1360	G1289	U1222	G1091	A1028	G965		C837	G765
C1554	C1554	C1488	C1488	G1426	G1361	C1290	G1223	C1092	A1029	G966		G838	U766
G1555	G1555	A1427	A1427	A1427	A1365	C1291	U1224		C1030	U967		U839	U767
C1556	C1556	G1428	G1428	G1428	A1366	G1292	G1225	U1097	G1031	C988		G840	
C1557	C1557	U1429	U1429	G1430	A1367	A1293	A1165	A1098	A1032	G969		G841	G770
C1558	C1558	G1430	G1430	A1431	G1368	G1294	G1166	G1099	U1033	U970		U842	G771
U1559	U1559	A1494	A1494	A1432	G1369	C1295	G1167	G1100	G1034	C908		G843	C772
G1560	G1560	A1495	A1495	G1433	G1369	G1296	G1168	U1035	U1035	A909		A844	C773
C1561	C1561	A1496	A1496	A1433	C1370	G1297	A1169	G1036	G1036	A972		A845	G774
U1562	U1562	U1497	U1497	A1434	G1371	C1298	C1170	G1037	G1037	A973		U846	G775
C1563	C1563	C1498	C1498		U1372	G1299	G1171	G1038	G1038	A974		U847	G776
C1564	C1564	U1437	U1437	U1438	A1373	A1300	C1172	U1105	A1039	A975		C848	G777
G1565	G1565	U1438	U1438	A1439	G1374	A1301	U1173	U1106	A1040	G976		U849	G778
A1566	A1566	G1501	G1501	A1439	U1375	A1302	U1174	U1107	G1041	G977		C850	
G1567	G1567	U1440	U1440	U1440		A1302	A1175	G1109	G1042	A978		U850	
G1568	G1568	G1441	G1441	G1441	U1379	C1306	G1238	G1110				C851	A781
A1569	A1569	U1442	U1442	U1442	G1380	A1307	G1239	A1111	A1046	A983		U852	A782
A1570	A1570	U1443	U1443	U1443	G1381	A1308	U1240	G1112	G1047	A984		C853	A783
A1571	A1571	U1506	U1506	G1444	G1382	U1309	U1242	U1113	A1048	U919		C854	G784
A1572	A1572	C1507	C1507	G1445	A1383	G1310	G1243	C1114	G985	A920		G855	G785
		A1508	A1508	C1446	A1384	G1311	U1244	G1115	G1049	C986		G856	C786
		U1509	U1509	C1447	A1385	U1312	A1244	G1116	A1050	C921		G857	C787
U1578	U1578	G1509	G1509	C1447	A1385	G1312	G1245	C1117	G1051	A988		G858	A788
A1579	A1579	U1510	U1510	G1448	C1386	U1313	A1246	C1118	C1052	G989		G859	
A1580	A1580	G1511	G1511	G1449	A1387	C1314	U1247	U1119	A1053	A925		U860	A794
G1581	G1581	C1512	C1512	A1450	G1388	G1315	G1248	G1120	C1053	A990		U861	C795
C1582	C1582	U1513	U1513	C1451	G1389	U1316	U1249	C1121	G1055	C991		G863	C796
A1583	A1583	G1514	G1514	G1452	U1390	G1317	G1250	G1122	G1056	C992		U864	G797
U1584	U1584	A1515	A1515	A1453	U1391	U1318	C1251	C1123	A1057	C994		C865	
C1585	C1585	U1516	U1516	G1454	A1392	C1319	G1252	G1124	U1058	C995		U866	
G1517	G1517			G1456		C1320	A1253	G1125	A1059	A996		U867	A802
						A1321	A1254	A1126	U1060	G997		G869	G805

A2670	A2671	A2672	A2673	A2674	A2675	A2676	A2677	A2678	A2679	A2680	A2681	A2682	A2683	A2684	A2685	A2686	A2687	A2688	A2689	A2690	A2691	A2692	A2693	A2694	A2695	A2696	A2697	A2698	A2699	A2700	A2701	A2702	A2703	A2704	A2705	A2706	A2707	A2708	A2709	A2710	A2711	A2712	A2713	A2714	A2715	A2716	A2717	A2718	A2719	A2720	A2721	A2722	A2723	A2724	A2725	A2726	A2727	A2728	A2729	A2730																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
G2603	G2604	G2605	G2606	G2607	G2608	G2609	G2610	G2611	G2612	G2613	G2614	G2615	G2616	G2617	G2618	G2619	G2620	G2621	G2622	G2623	G2624	G2625	G2626	G2627	G2628	G2629	G2630	G2631	G2632	G2633	G2634	G2635	G2636	G2637	G2638	G2639	G2640	G2641	G2642	G2643	G2644	G2645	G2646	G2647	G2648	G2649	G2650	G2651	G2652	G2653	G2654	G2655	G2656	G2657	G2658	G2659	G2660	G2661	G2662	G2663	G2664	G2665	G2666	G2667	G2668	G2669	G2670	G2671	G2672	G2673	G2674	G2675	G2676	G2677	G2678	G2679	G2680	G2681	G2682	G2683	G2684	G2685	G2686	G2687	G2688	G2689	G2690	G2691	G2692	G2693	G2694	G2695	G2696	G2697	G2698	G2699	G2700	G2701	G2702	G2703	G2704	G2705	G2706	G2707	G2708	G2709	G2710	G2711	G2712	G2713	G2714	G2715	G2716	G2717	G2718	G2719	G2720	G2721	G2722	G2723	G2724	G2725	G2726	G2727	G2728	G2729	G2730																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
A2468	A2469	A2470	A2471	A2472	A2473	A2474	A2475	A2476	A2477	A2478	A2479	A2480	A2481	A2482	A2483	A2484	A2485	A2486	A2487	A2488	A2489	A2490	A2491	A2492	A2493	A2494	A2495	A2496	A2497	A2498	A2499	A2500	A2501	A2502	A2503	A2504	A2505	A2506	A2507	A2508	A2509	A2510	A2511	A2512	A2513	A2514	A2515	A2516	A2517	A2518	A2519	A2520	A2521	A2522	A2523	A2524	A2525	A2526	A2527	A2528	A2529	A2530	A2531	A2532	A2533	A2534	A2535	A2536	A2537	A2538	A2539	A2540	A2541	A2542	A2543	A2544	A2545	A2546	A2547	A2548	A2549	A2550	A2551	A2552	A2553	A2554	A2555	A2556	A2557	A2558	A2559	A2560	A2561	A2562	A2563	A2564	A2565	A2566	A2567	A2568	A2569	A2570	A2571	A2572	A2573	A2574	A2575	A2576	A2577	A2578	A2579	A2580	A2581	A2582	A2583	A2584	A2585	A2586	A2587	A2588	A2589	A2590	A2591	A2592	A2593	A2594	A2595	A2596	A2597	A2598	A2599	A2600	A2601	A2602	A2603	A2604	A2605	A2606	A2607	A2608	A2609	A2610	A2611	A2612	A2613	A2614	A2615	A2616	A2617	A2618	A2619	A2620	A2621	A2622	A2623	A2624	A2625	A2626	A2627	A2628	A2629	A2630	A2631	A2632	A2633	A2634	A2635	A2636	A2637	A2638	A2639	A2640	A2641	A2642	A2643	A2644	A2645	A2646	A2647	A2648	A2649	A2650	A2651	A2652	A2653	A2654	A2655	A2656	A2657	A2658	A2659	A2660	A2661	A2662	A2663	A2664	A2665	A2666	A2667	A2668	A2669	A2670	A2671	A2672	A2673	A2674	A2675	A2676	A2677	A2678	A2679	A2680	A2681	A2682	A2683	A2684	A2685	A2686	A2687	A2688	A2689	A2690	A2691	A2692	A2693	A2694	A2695	A2696	A2697	A2698	A2699	A2700	A2701	A2702	A2703	A2704	A2705	A2706	A2707	A2708	A2709	A2710	A2711	A2712	A2713	A2714	A2715	A2716	A2717	A2718	A2719	A2720	A2721	A2722	A2723	A2724	A2725	A2726	A2727	A2728	A2729	A2730																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
G2536	G2537	G2538	G2539	G2540	G2541	G2542	G2543	G2544	G2545	G2546	G2547	G2548	G2549	G2550	G2551	G2552	G2553	G2554	G2555	G2556	G2557	G2558	G2559	G2560	G2561	G2562	G2563	G2564	G2565	G2566	G2567	G2568	G2569	G2570	G2571	G2572	G2573	G2574	G2575	G2576	G2577	G2578	G2579	G2580	G2581	G2582	G2583	G2584	G2585	G2586	G2587	G2588	G2589	G2590	G2591	G2592	G2593	G2594	G2595	G2596	G2597	G2598	G2599	G2600	G2601	G2602	G2603	G2604	G2605	G2606	G2607	G2608	G2609	G2610	G2611	G2612	G2613	G2614	G2615	G2616	G2617	G2618	G2619	G2620	G2621	G2622	G2623	G2624	G2625	G2626	G2627	G2628	G2629	G2630	G2631	G2632	G2633	G2634	G2635	G2636	G2637	G2638	G2639	G2640	G2641	G2642	G2643	G2644	G2645	G2646	G2647	G2648	G2649	G2650	G2651	G2652	G2653	G2654	G2655	G2656	G2657	G2658	G2659	G2660	G2661	G2662	G2663	G2664	G2665	G2666	G2667	G2668	G2669	G2670	G2671	G2672	G2673	G2674	G2675	G2676	G2677	G2678	G2679	G2680	G2681	G2682	G2683	G2684	G2685	G2686	G2687	G2688	G2689	G2690	G2691	G2692	G2693	G2694	G2695	G2696	G2697	G2698	G2699	G2700	G2701	G2702	G2703	G2704	G2705	G2706	G2707	G2708	G2709	G2710	G2711	G2712	G2713	G2714	G2715	G2716	G2717	G2718	G2719	G2720	G2721	G2722	G2723	G2724	G2725	G2726	G2727	G2728	G2729	G2730																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
A1794	A1795	A1796	A1797	A1798	A1799	A1800	A1801	A1802	A1803	A1804	A1805	A1806	A1807	A1808	A1809	A1810	A1811	A1812	A1813	A1814	A1815	A1816	A1817	A1818	A1819	A1820	A1821	A1822	A1823	A1824	A1825	A1826	A1827	A1828	A1829	A1830	A1831	A1832	A1833	A1834	A1835	A1836	A1837	A1838	A1839	A1840	A1841	A1842	A1843	A1844	A1845	A1846	A1847	A1848	A1849	A1850	A1851	A1852	A1853	A1854	A1855	A1856	A1857	A1858	A1859	A1860	A1861	A1862	A1863	A1864	A1865	A1866	A1867	A1868	A1869	A1870	A1871	A1872	A1873	A1874	A1875	A1876	A1877	A1878	A1879	A1880	A1881	A1882	A1883	A1884	A1885	A1886	A1887	A1888	A1889	A1890	A1891	A1892	A1893	A1894	A1895	A1896	A1897	A1898	A1899	A1900	A1901	A1902	A1903	A1904	A1905	A1906	A1907	A1908	A1909	A1910	A1911	A1912	A1913	A1914	A1915	A1916	A1917	A1918	A1919	A1920	A1921	A1922	A1923	A1924	A1925	A1926	A1927	A1928	A1929	A1930	A1931	A1932	A1933	A1934	A1935	A1936	A1937	A1938	A1939	A1940	A1941	A1942	A1943	A1944	A1945	A1946	A1947	A1948	A1949	A1950	A1951	A1952	A1953	A1954	A1955	A1956	A1957	A1958	A1959	A1960	A1961	A1962	A1963	A1964	A1965	A1966	A1967	A1968	A1969	A1970	A1971	A1972	A1973	A1974	A1975	A1976	A1977	A1978	A1979	A1980	A1981	A1982	A1983	A1984	A1985	A1986	A1987	A1988	A1989	A1990	A1991	A1992	A1993	A1994	A1995	A1996	A1997	A1998	A1999	A2000	A2001	A2002	A2003	A2004	A2005	A2006	A2007	A2008	A2009	A2010	A2011	A2012	A2013	A2014	A2015	A2016	A2017	A2018	A2019	A2020	A2021	A2022	A2023	A2024	A2025	A2026	A2027	A2028	A2029	A2030	A2031	A2032	A2033	A2034	A2035	A2036	A2037	A2038	A2039	A2040	A2041	A2042	A2043	A2044	A2045	A2046	A2047	A2048	A2049	A2050	A2051	A2052	A2053	A2054	A2055	A2056	A2057	A2058	A2059	A2060	A2061	A2062	A2063	A2064	A2065	A2066	A2067	A2068	A2069	A2070	A2071	A2072	A2073	A2074	A2075	A2076	A2077	A2078	A2079	A2080	A2081	A2082	A2083	A2084	A2085	A2086	A2087	A2088	A2089	A2090	A2091	A2092	A2093	A2094	A2095	A2096	A2097	A2098	A2099	A2100	A2101	A2102	A2103	A2104	A2105	A2106	A2107	A2108	A2109	A2110	A2111	A2112	A2113	A2114	A2115	A2116	A2117	A2118	A2119	A2120	A2121	A2122	A2123	A2124	A2125	A2126	A2127	A2128	A2129	A2130	A2131	A2132	A2133	A2134	A2135	A2136	A2137	A2138	A2139	A2140	A2141	A2142	A2143	A2144	A2145	A2146	A2147	A2148	A2149	A2150	A2151	A2152	A2153	A2154	A2155	A2156	A2157	A2158	A2159	A2160	A2161	A2162	A2163	A2164	A2165	A2166	A2167	A2168	A2169	A2170	A2171	A2172	A2173	A2174	A2175	A2176	A2177	A2178	A2179	A2180	A2181	A2182	A2183	A2184	A2185	A2186	A2187	A2188	A2189	A2190	A2191	A2192	A2193	A2194	A2195	A2196	A2197	A2198	A2199	A2200	A2201	A2202	A2203	A2204	A2205	A2206	A2207	A2208	A2209	A2210	A2211	A2212	A2213	A2214	A2215	A2216	A2217	A2218	A2219	A2220	A2221	A2222	A2223	A2224	A2225	A2226	A2227	A2228	A2229	A2230	A2231	A2232	A2233	A2234	A2235	A2236	A2237	A2238	A2239	A2240	A2241	A2242	A2243	A2244	A2245	A2246	A2247	A2248	A2249	A2250	A2251	A2252	A2253	A2254	A2255	A2256	A2257	A2258	A2259	A2260	A2261	A2262	A2263	A2264	A2265	A2266	A2267	A2268	A2269	A2270	A2271	A2272	A2273	A2274	A2275	A2276	A2277	A2278	A2279	A2280	A2281	A2282	A2283	A2284	A2285	A2286	A2287	A2288	A2289	A2290	A2291	A2292	A2293	A2294	A2295	A2296	A2297	A2298	A2299	A2300	A2301	A2302	A2303	A2304	A2305	A2306	A2307	A2308	A2309	A2310	A2311	A2312	A2313	A2314	A2315	A2316	A2317	A2318	A2319	A2320	A2321	A2322	A2323	A2324	A2325	A2326	A2327	A2328	A2329	A2330	A2331	A2332	A2333	A2334	A2335	A2336	A2337	A2338	A2339	A2340	A2341	A2342	A2343	A2344	A2345	A2346	A2347	A2348	A2349	A2350	A2351	A2352	A2353	A2354	A2355	A2356	A2357	A2358	A2359	A2360	A2361	A2362	A2363	A2364	A2365	A2366	A2367	A2368	A2369	A2370	A2371	A2372	A2373	A2374	A2375	A2376	A2377	A2378	A2379	A2380	A2381	A2382	A2383	A2384	A2385	A2386	A2387	A2388	A2389	A2390	A2391	A2392	A2393	A2394	A2395	A2396	A2397	A2398	A2399	A2400	A2401	A2402	A2403	A2404	A2405	A2406	A2407	A2408	A2409	A2410	A2411	A2412	A2413	A2414	A2415	A2416	A2417	A2418	A2419	A2420	A2421	A2422	A2423	A2424	A2425	A2426	A2427	A2428	A2429	A2430	A2431	A2432	A2433	A2434	A2435	A2436	A2437	A2438	A2439	A2440	A2441	A2442	A2443	A2444	A2445	A2446	A2447	A2448	A2449	A2450	A2451	A2452	A2453	A2454	A2455	A2456	A2457	A2458	A2459	A2460	A2461	A2462	A2463	A2464	A2465	A2466	A2467	A2468	A2469	A2470	A2471	A2472	A2473	A2474	A2475	A2476	A2477	A2478	A2479	A2480	A2481	A2482	A2483	A2484	A2485	A2486	A2487	A2488	A2489	A2490	A2491	A2492	A2493	A2494	A2495	A2496	A2497	A2498	A2499	A2500	A2501	A2502	A2503	A2504	A2505	A2506	A2507	A2508	A2509	A2510	A2511	A2512	A2513	A2514	A2515	A2516	A2517	A2518	A2519	A2520</

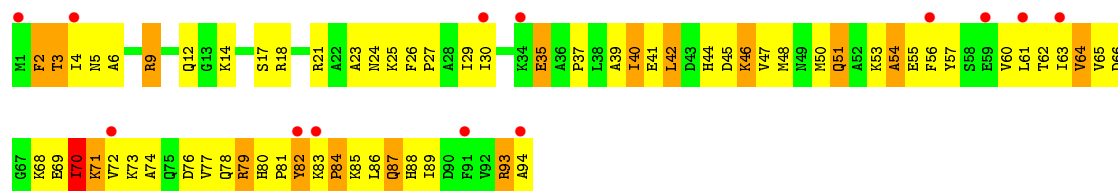


A1759	A1695	G1623	A1549	G1483	G1421	G1356	A1286	G1215	A1151	U1083	A1010	A947	G818
C1760	G1695	G1624	C1550	U1484	G1422	C1357	A1287	U1219	C1152	A1084	G1011	C948	A819
A1762	A1700	U1624	A1551	U1485	G1423	G1358	C1288	G1219	C1153	A1085	U1012	G949	A820
G1763	A1701	U1624	A1552	U1486	G1424	A1359	G1289	U1220	C1154	A1086	C1013	G950	A821
A1764	G1702	G1633	A1553	U1487	G1425	G1360	C1290	U1221	A1155	G1087	A1014	C951	A822
U1765	G1703	A1634	U1554	C1488	G1426	G1361	C1291	U1222	A1156	A1088	U1018	G952	C823
G1766	A1704	A1635	G1555	C1489	A1427	A1362	G1292	U1223	G1157	A1089	U1019	G953	U824
U1767	A1705	U1636	C1556	C1490	C1428	A1365	C1293	U1224	U1158	A1090	A1020	A825	A825
U1769	G1706	C1637	C1557	G1491	G1429	A1366	U1294	U1225	C1161	A1091	U1021	U955	U826
G1770	C1707	C1638	C1558	C1492	G1430	A1367	C1295	G1228	G1162	A1092	G1022	G956	U827
C1771	U1708	C1639	U1559	A1494	A1431	G1368	G1296	C1229	G1163	C1093	U1023	C957	U828
A1772	U1709	A1640	G1560	A1495	G1432	G1369	C1297	A1230	C1164	U1024	U1024	U958	U829
U1773	G1710	A1641	C1561	A1496	A1433	C1370	C1298	U1231	A1165	U1025	U1025	A960	G831
U1774	A1711	G1642	U1562	U1497	A1434	G1371	G1299	U1232	G1166	A1098	G1026	U961	U832
U1775	U1712	G1645	U1563	C1498	C1437	U1372	C1300	U1233	C1167	G1099	G1027	G962	A833
U1776	A1713	C1646	C1564	A1499	U1438	A1373	A1301	A1237	G1168	C1100	A1028	G963	G834
U1777	U1714	U1647	C1565	G1500	A1439	G1374	A1302	U1238	A1169	U101	A1029	U964	C898
U1778	G1715	A1648	A1566	U1501	U1440	U1375	C1306	A1241	G1170	U105	C985	A900	A899
U1779	U1716	U1649	G1567	A1502	G1441	U1379	A1307	U1242	G1171	G106	G1030	C986	A901
U1780	G1717	A1650	G1568	A1503	G1442	U1380	C1308	C1243	C1172	G1107	A1032	G967	C902
U1781	U1718	G1651	A1569	U1504	U1443	G1381	G1309	A1244	U1173	U1108	U1033	C968	C903
U1782	G1719	U1652	A1570	U1505	G1444	G1382	G1310	A1245	U1174	C1109	G1034	G969	G904
A1784	U1720	U1654	A1571	U1506	G1445	A1383	G1311	A1246	A1175	U1105	U1035	U970	U905
A1785	G1721	A1655	U1572	C1507	G1446	A1384	U1312	U1247	U1176	G111	A1046	G971	A844
A1786	U1722	C1656	U1573	A1508	C1447	A1385	C1313	U1248	C1177	A111	C983	U852	A845
A1787	G1723	U1657	U1574	U1509	U1448	U1386	C1314	G1250	C1178	G1112	A1047	U853	U846
U1788	U1724	C1658	A1579	G1510	G1449	U1387	C1315	C1251	U1179	U1113	A1039	A973	U847
U1789	G1725	G1659	A1580	U1511	U1450	A1388	G1316	A1252	U1180	G1116	A1040	C948	A909
C1790	U1726	U1660	C1581	C1512	G1450	G1389	U1317	A1253	U1181	G1041	A975	A910	A849
A1791	G1727	G1661	A1582	U1513	C1451	G1390	G1318	A1254	C1182	G1042	C1043	G976	A911
U1792	U1728	U1662	A1583	G1514	G1452	U1391	C1319	U1255	U1183	C1118	U1035	G977	C912
C1793	U1729	U1663	U1584	A1515	A1453	U1392	C1320	G1256	U1184	U1119	A1046	G978	U913
U1794	G1730	A1664	A1585	G1516	C1454	U1393	A1321	U1257	G1185	C1120	C985	U854	A918
A1795	U1731	G1665	A1586	U1517	G1455	U1394	C1322	G1259	G1186	C1121	A1047	C982	G855
U1796	G1732	U1666	U1587	A1524	G1456	U1395	C1323	A1260	U1188	G1125	A1048	A920	G856
G1797	U1733	G1667	A1590	A1525	U1457	U1396	G1324	C1261	U1189	G1059	A1050	C921	G857
U1798	A1734	A1668	A1591	C1526	G1458	C1397	U1325	A1262	G1190	G1128	G1051	C922	G858
G1799	U1735	A1669	C1592	U1527	G1459	C1398	U1326	U1263	U1191	A1129	U1052	A925	U860
C1800	U1736	U1670	A1593	U1528	C1461	U1400	C1327	A1264	G1192	U1130	A1057	A926	G861
A1801	G1737	G1671	C1594	G1529	C1462	U1401	U1328	A1265	U1193	G1131	U1058	G927	G862
A1802	U1738	A1672	C1595	U1530	C1463	U1402	U1329	A1266	A1194	U1132	G1059	A928	A863
A1803	G1740	G1673	A1596	C1531	G1464	A1403	G1330	U1267	G1195	A1133	U1061	U929	G864
U1804	U1741	C1674	A1597	U1532	G1465	C1404	G1331	A1268	C1196	A1134	U1062	G931	G865
U1805	G1742	A1675	A1598	C1533	U1466	U1405	C1332	A1269	G1197	G1136	C994	U931	A866
U1806	G1743	U1676	A1599	U1534	U1467	U1406	U1337	C1270	U1198	G1137	U932	U932	G869
U1807	A1744	A1677	C1600	A1535	U1468	G1407	C1337	A1271	U1199	G1138	C995	A933	U870
U1808	U1745	U1678	G1601	C1536	U1469	U1408	U1338	A1272	C1200	C1064	A996	A937	U871
U1809	A1746	U1680	U1602	G1537	A1470	U1409	U1339	U1273	U1201	G1139	G997	C935	U872
U1810	U1747	G1681	A1603	G1538	G1471	G1410	U1340	A1274	G1202	C1140	U1065	C936	U873
U1811	G1748	G1682	U1604	U1539	G1472	U1411	C1341	U1275	U1141	U1141	G1068	U999	U874
U1812	U1749	U1683	A1608	G1540	U1474	U1412	C1342	A1276	A1203	A1142	U1070	C937	G875
U1813	G1750	G1684	A1609	C1541	G1475	A1413	A1347	G1277	A1204	A1143	C1076	A941	C876
U1814	U1751	C1685	A1610	U1542	U1476	C1414	C1348	C1278	U1205	A1144	A1077	G942	A877
U1815	G1752	G1686	C1611	G1543	A1477	U1415	C1349	G1279	U1206	C1145	C1005	A943	A878
U1816	U1753	U1687	G1612	A1544	G1478	U1416	C1351	U1281	G1210	A1147	C1006	G944	G
U1817	G1754	U1688	A1613	A1545	G1479	C1417	U1352	U1282	C1211	U1148	C1007	A945	A879
U1818	U1755	C1689	U1614	G1546	C1480	U1418	A1353	G1283	G1212	U1149	U1081	G946	G
U1819	U1756	U1690	A1615	C1547	U1481	A1419	A1354	A1284	A1213	G1149	A1008	A946	G
U1820	U1757	U1691	U1616	U1548	G1482	A1420	G1355	U1285	A1214	C1150	U1082	C946	G
U1821	U1758	U1692	U1617	U1549	U1483	U1421	G1356	U1286	A1215	C1151	U1083	C947	G
U1822	U1759	U1693	U1618	U1550	U1484	U1422	G1357	U1287	A1216	C1152	U1084	C948	G
U1823	U1760	U1694	U1619	U1551	U1485	U1423	G1358	U1288	C1153	U1085	U1012	G949	U
U1824	U1761	U1695	U1620	U1552	U1486	U1424	A1359	U1289	C1154	A1086	C1013	G950	C
U1825	U1762	U1696	U1621	U1553	U1487	U1425	G1360	U1290	A1155	G1087	A1014	C951	A
U1826	U1763	U1697	U1622	U1554	U1488	U1426	G1361	C1291	A1156	A1088	U1018	G952	U
U1827	U1764	U1698	U1623	U1555	U1489	A1427	U1362	G1292	G1157	A1089	U1019	G953	C
U1828	U1765	U1699	U1624	U1556	U1490	C1428	A1365	U1293	U1158	A1090	A1020	U955	C
U1829	U1766	U1700	U1625	U1557	U1491	G1429	A1366	G1228	C1161	A1091	U1021	U956	C
U1830	U1767	U1701	U1626	U1558	U1492	G1430	A1367	U1229	G1162	A1092	G1022	G957	G
U1831	U1768	U1702	U1627	U1559	U1493	A1431	G1368	A1230	G1163	C1093	U1023	U958	A
U1832	U1769	U1703	U1628	U1560	U1494	G1432	G1369	U1231	C1164	U1024	U1024	U959	U
U1833	U1770	U1704	U1629	U1561	U1495	A1433	C1298	U1232	A1165	A960	G1025	A960	C
U1834	U1771	U1705	U1630	U1562	U1496	G1434	G1299	U1233	G1166	A1098	G1026	U961	U
U1835	U1772	U1706	U1631	U1563	U1497	U1435	C1300	U1234	C1167	G1099	G1027	G962	A
U1836	U1773	U1707	U1632	U1564	U1498	A1436	A1301	A1237	G1168	C1100	A1028	U963	C
U1837	U1774	U1708	U1633	U1565	U1499	U1437	A1302	U1238	A1169	U101	A1029	U964	C898
U1838	U1775	U1709	U1634	U1566	U1500	U1438	C1306	A1241	G1170	U105	C985	A900	A899
U1839	U1776	U1710	U1635	U1567	U1501	U1379	A1307	U1242	G1171	G106	G1030	C986	A901
U1840	U1777	U1711	U1636	U1568	U1502	U1380	C1308	C1243	C1172	G1107	A1032	G967	C902
U1841	U1778	U1712	U1637	U1569	U1503	U1381	G1309	A1244	U1173	U1108	U1033	C968	C903
U1842	U1779	U1713	U1638	U1570	U1504	G1382	G1310	A1245	U1174	C1109	G1034	G969	G904
U1843	U1780	U1714	U1639	U1571	U1505	U1383	G1311	U1246	A1175	U1105	U1035	U970	U905
U1844	U1781	U1715	U1640	U1572	U1506	A1384	U1312	A1247	U1176	G111	A1046	G971	A844
U1845	U1782	U1716	U1641	U1573	U1507	A1385	C1313	U1248	C1177	A111	C983	U852	A845
U1846	U1783	U1717	U1642	U1574	U1508	U1386	C1314	U1249	C1178	G1112	A1047	U853	U846
U1847	U1784	U1718	U1643	U1575	U1509	U1387	G1315	G1250	U1179	U1113	A1039	A973	U847
U1848	U1785	U1719	U1644	U1510	U1510	U1388	C1316	C1251	U1180	G1116	A1040	C948	A909
U1849	U1786	U1720	U1645	U1511	U1511	A1389	U1317	A1252	U1181	G1041	A975	A910	A849
U1850	U1787	U1721	U1646	U1512	G1450	G1390	G1318	A1253	C1182	G1042	C1043	G976	A911
U1851	U1788	U1722	U1647	U1513	C1451	U1391	U1319	U1254	U1183	C1118	U1035	G977	C912
U1852	U1789	U1723	U1648	U1514	G1452	U1392	C1320	U1255	U1184	U1119	A1046	G978	U913
U1853	U1790	U1724	U1649	U1515	A1453	U1393	C1321	G1256	G1185	C1120	C985	U852	U852
U1854													

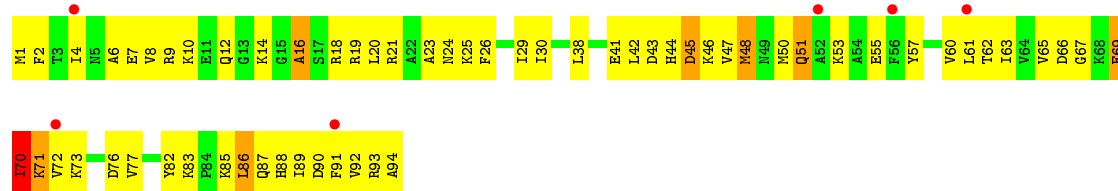




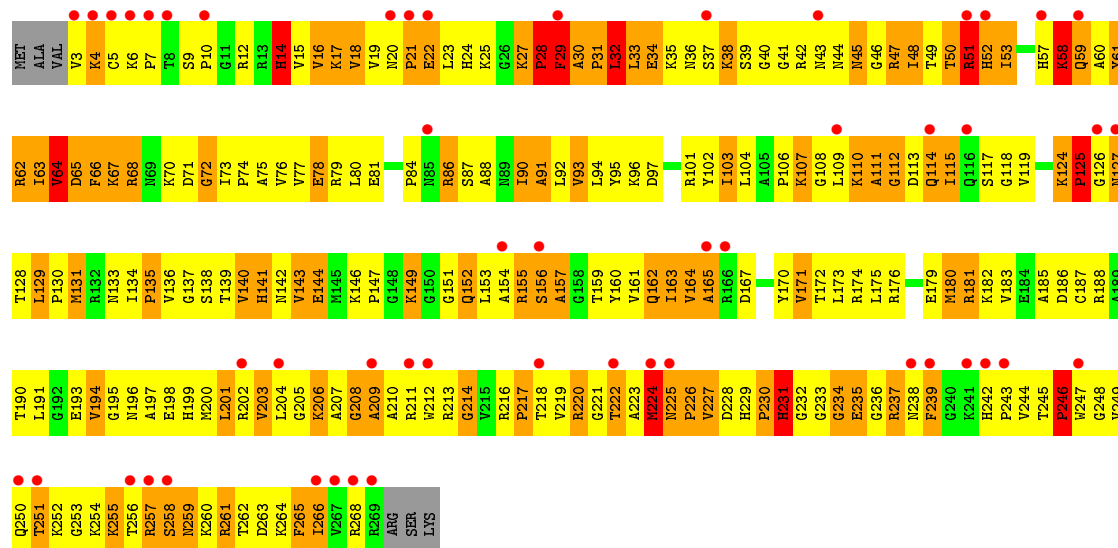
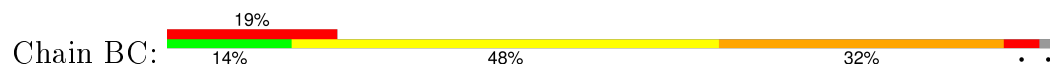
• Molecule 24: 50S RIBOSOMAL PROTEIN L25



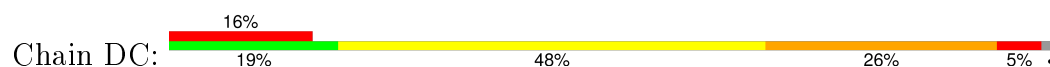
• Molecule 24: 50S RIBOSOMAL PROTEIN L25

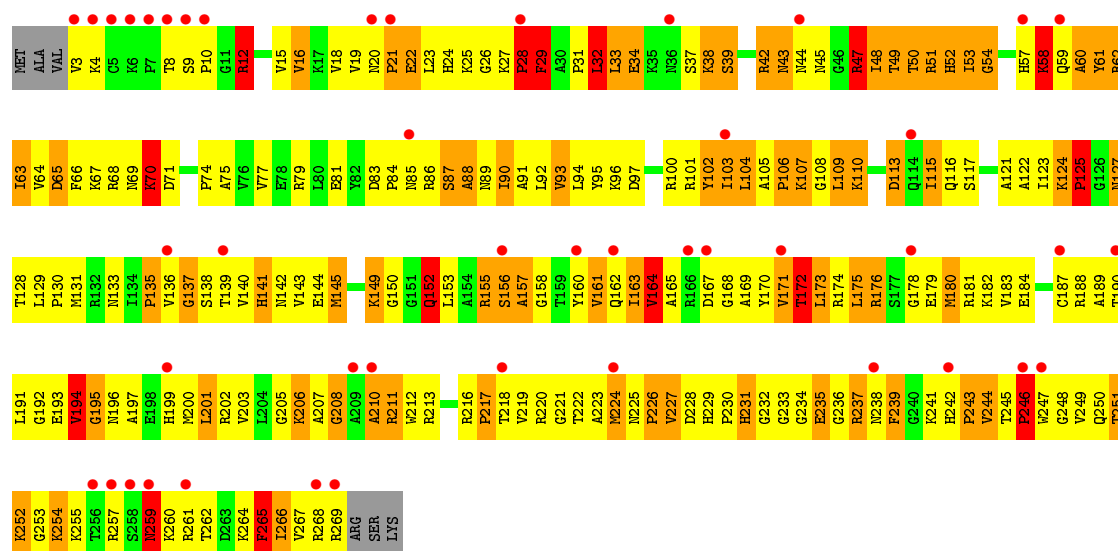


• Molecule 25: 50S RIBOSOMAL PROTEIN L2

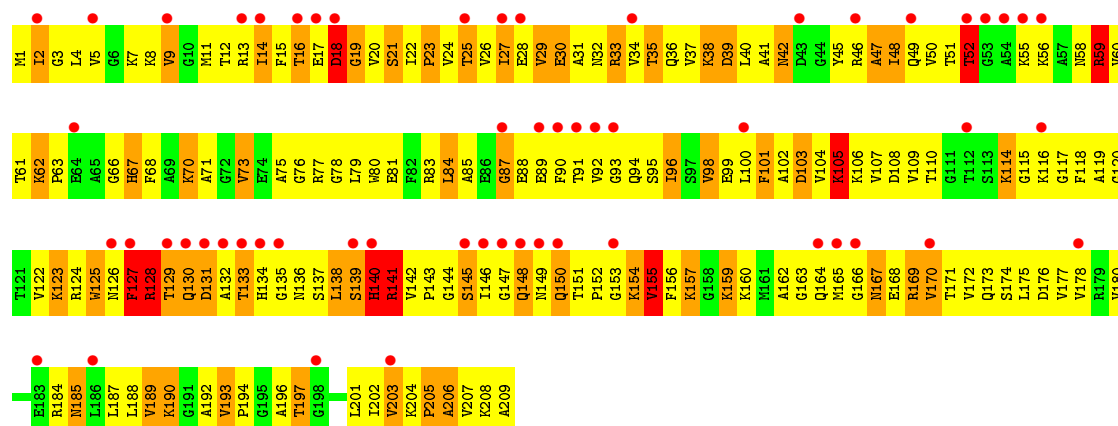
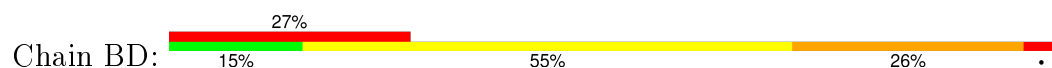


• Molecule 25: 50S RIBOSOMAL PROTEIN L2

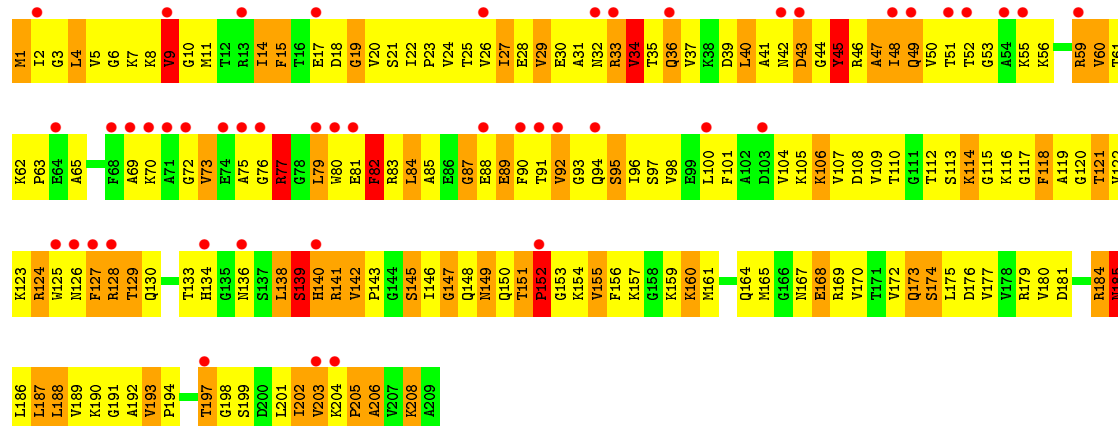
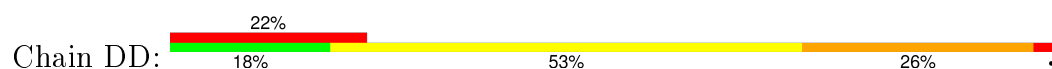




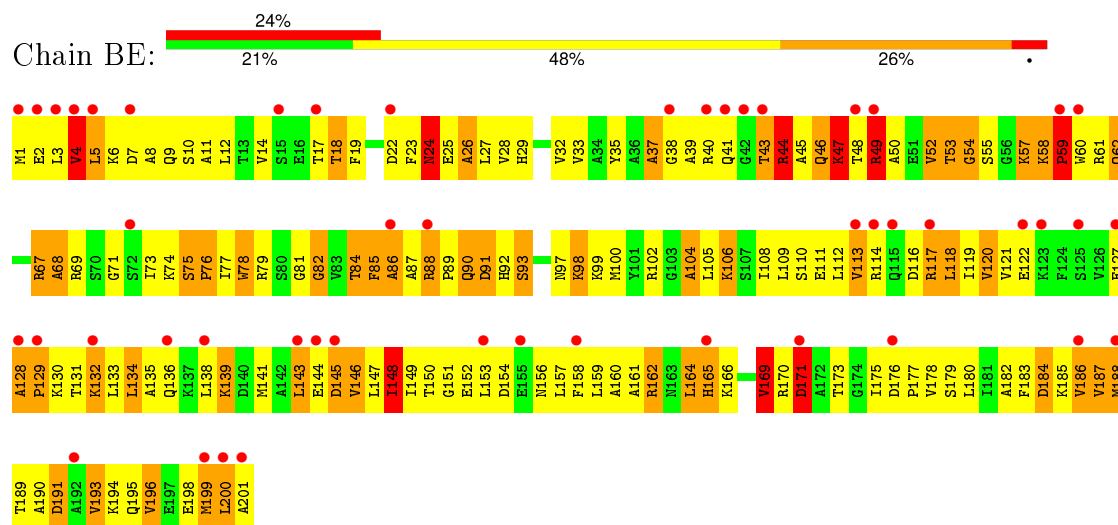
• Molecule 26: 50S RIBOSOMAL PROTEIN L3



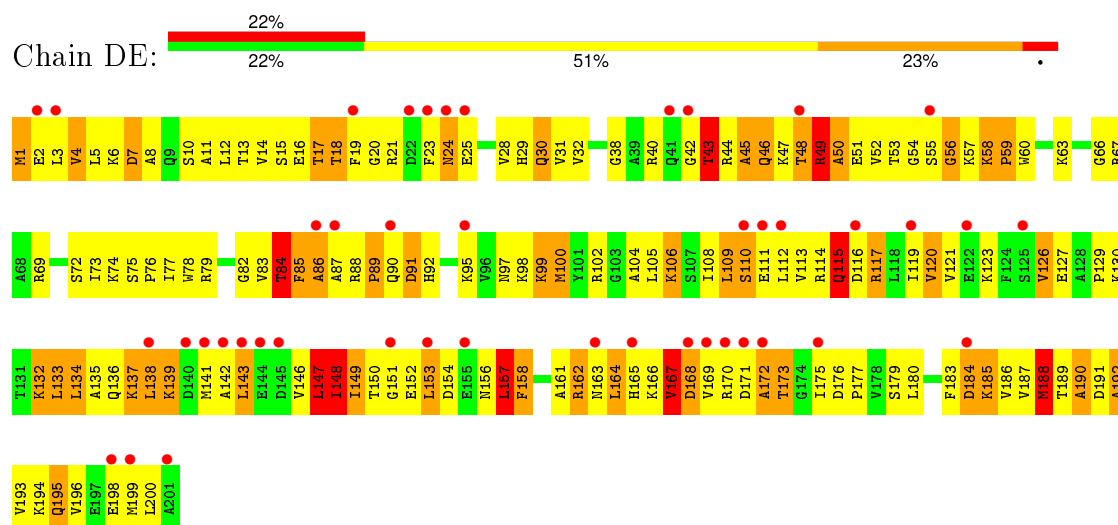
• Molecule 26: 50S RIBOSOMAL PROTEIN L3



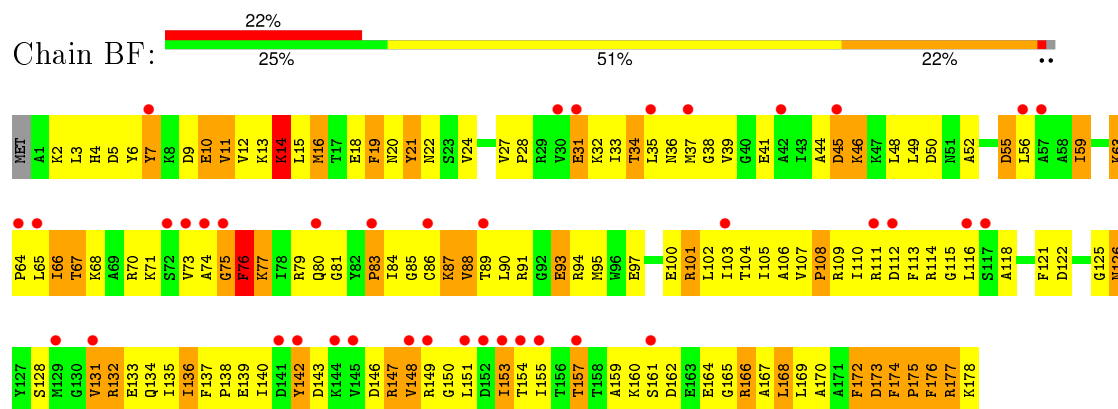
• Molecule 27: 50S RIBOSOMAL PROTEIN L4



• Molecule 27: 50S RIBOSOMAL PROTEIN L4

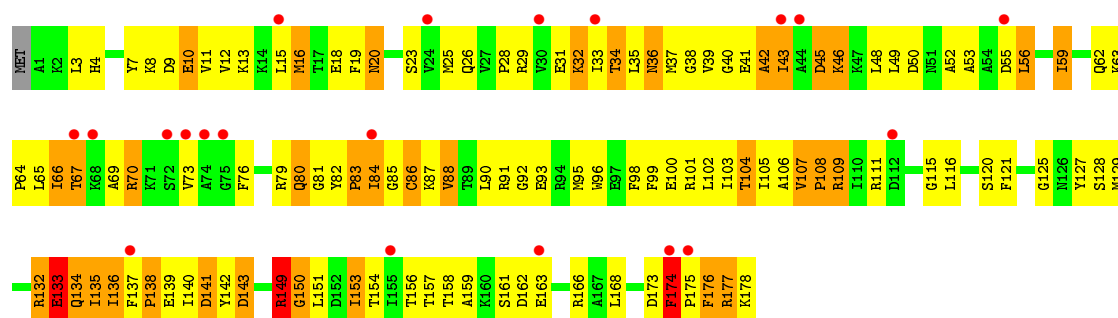


• Molecule 28: 50S RIBOSOMAL PROTEIN L5

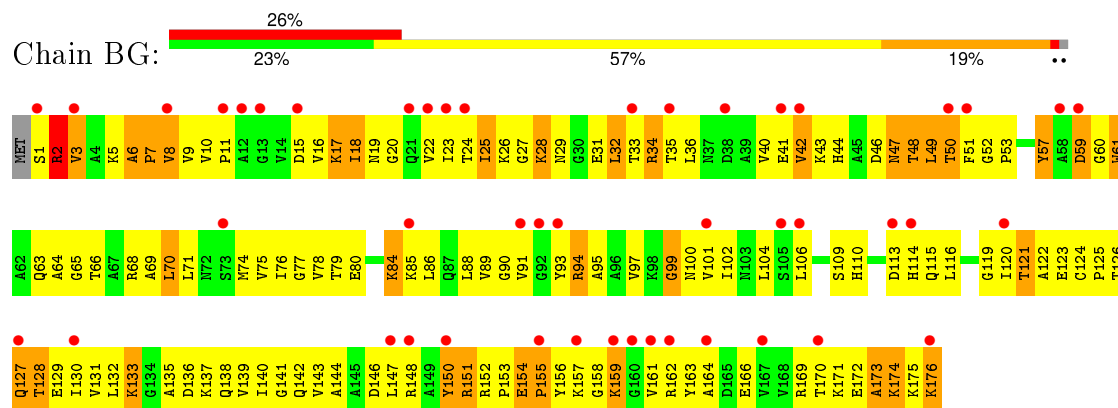


• Molecule 28: 50S RIBOSOMAL PROTEIN L5

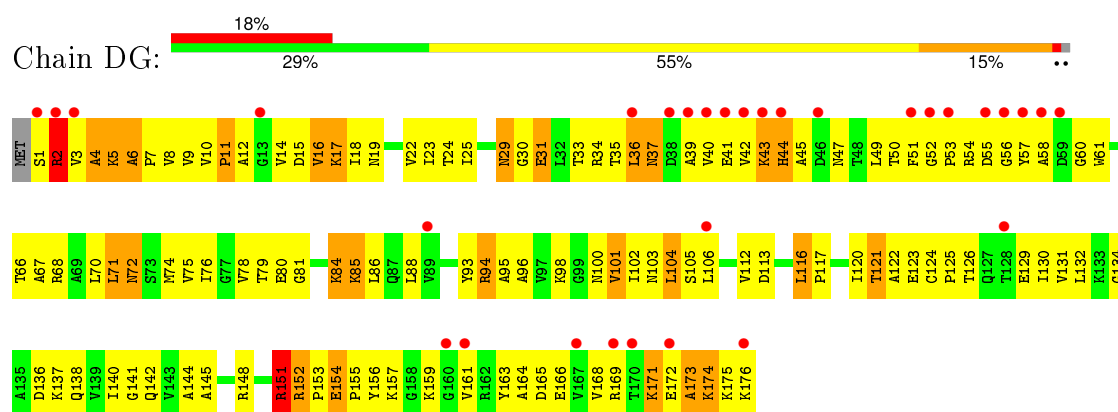




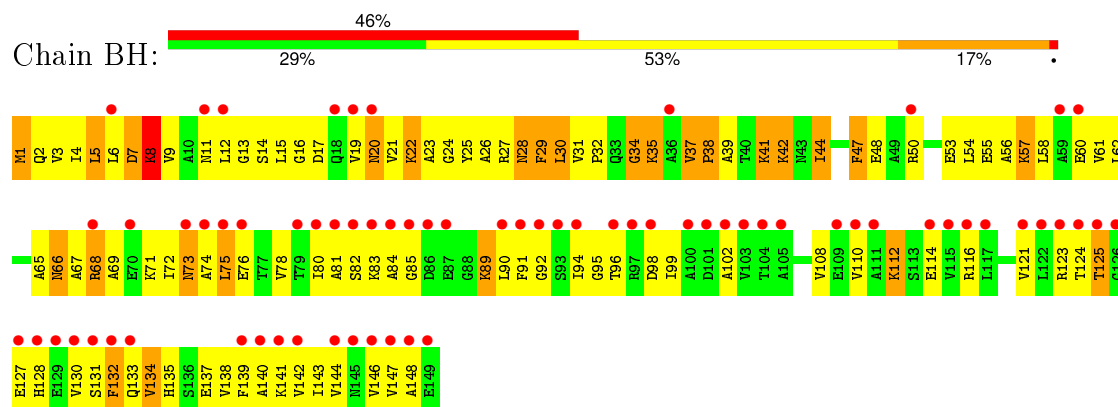
• Molecule 29: 50S RIBOSOMAL PROTEIN L6



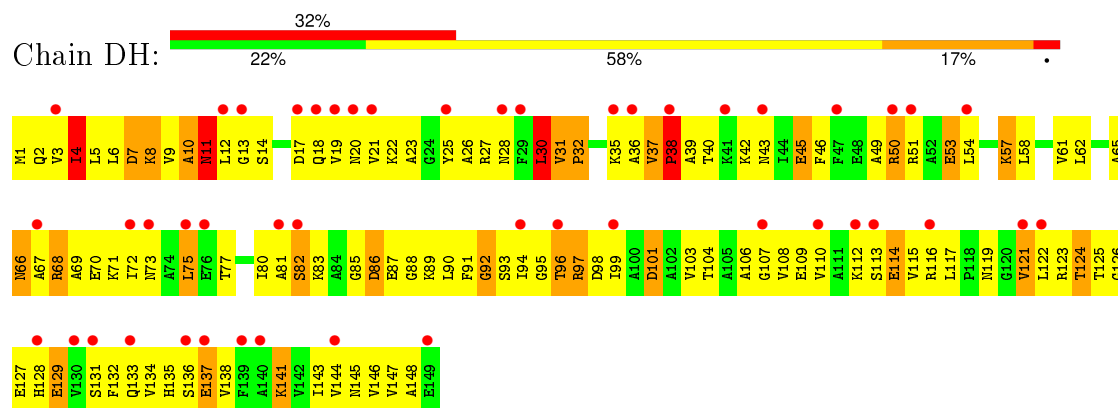
• Molecule 29: 50S RIBOSOMAL PROTEIN L6



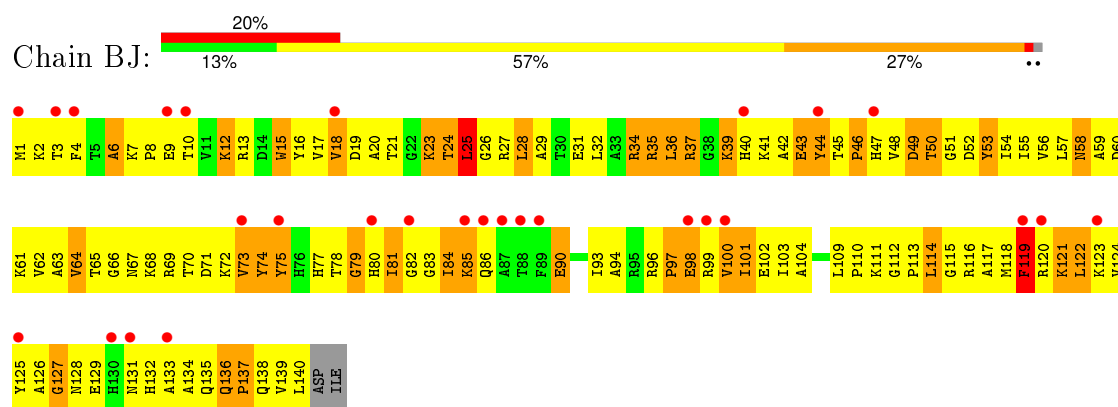
• Molecule 30: 50S RIBOSOMAL PROTEIN L9



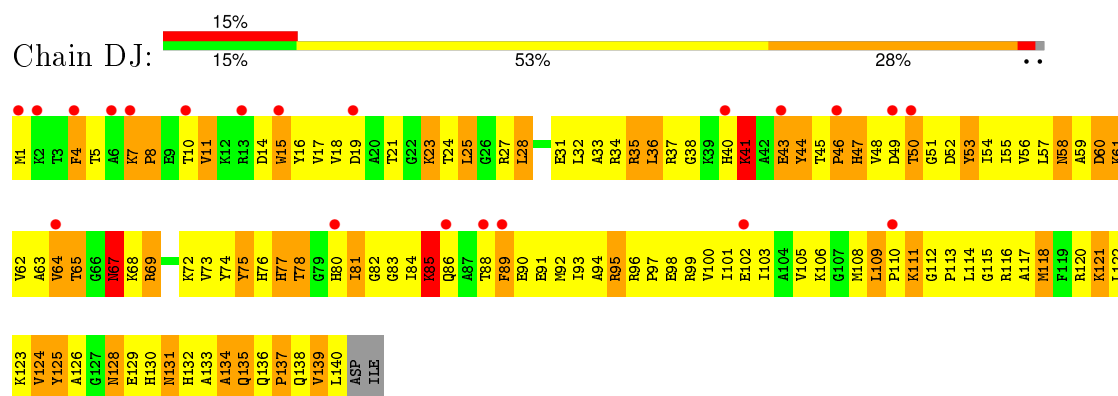
● Molecule 30: 50S RIBOSOMAL PROTEIN L9



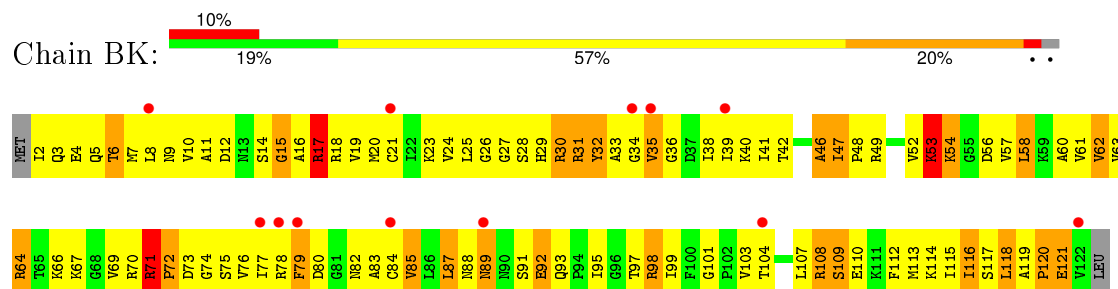
● Molecule 31: 50S RIBOSOMAL PROTEIN L13



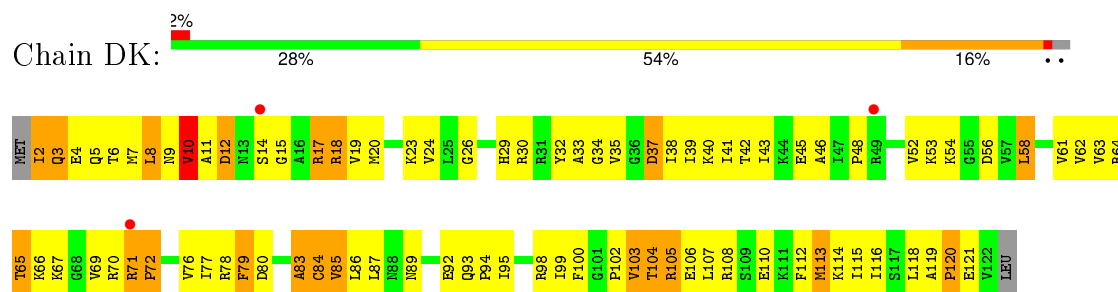
● Molecule 31: 50S RIBOSOMAL PROTEIN L13



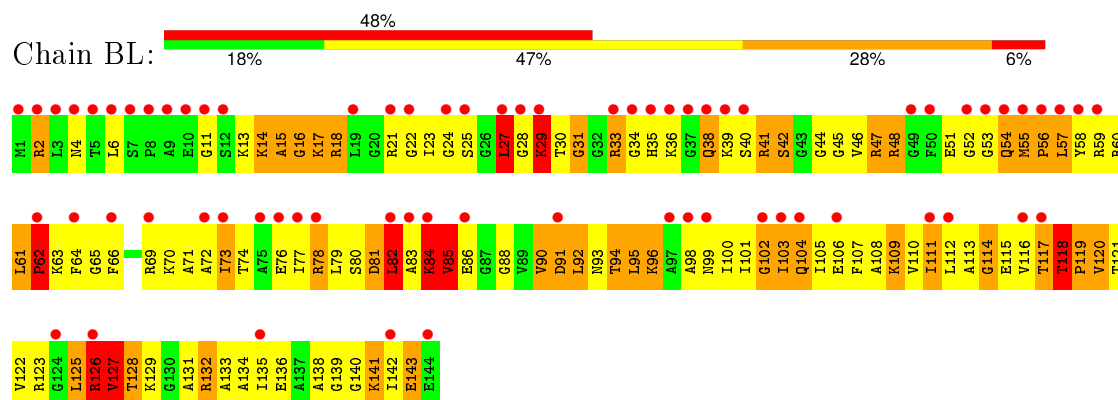
● Molecule 32: 50S RIBOSOMAL PROTEIN L14



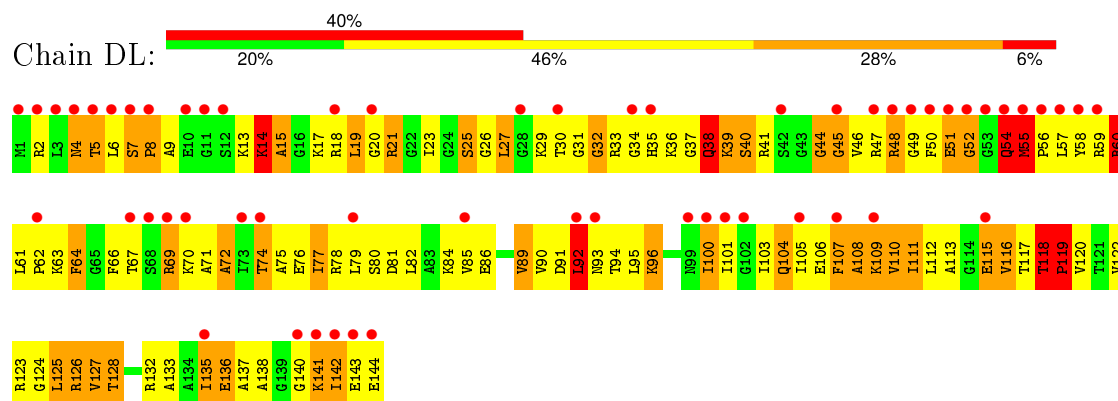
- Molecule 32: 50S RIBOSOMAL PROTEIN L14



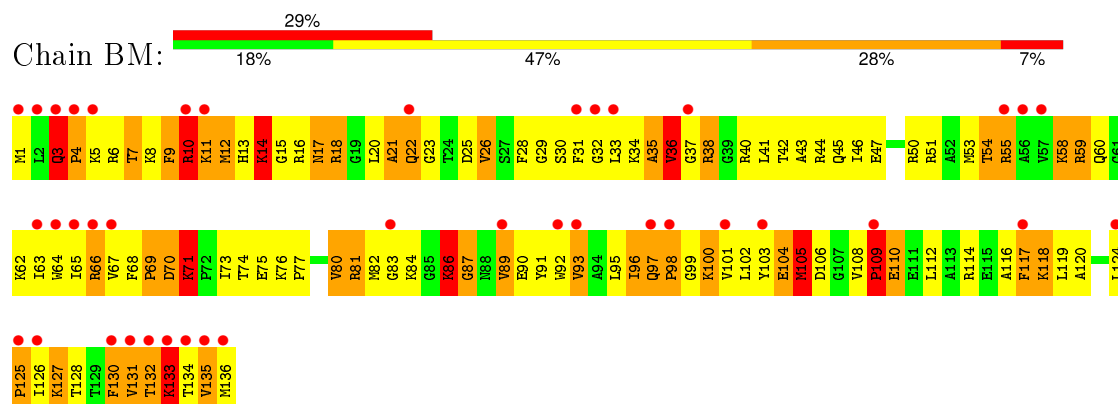
- Molecule 33: 50S RIBOSOMAL PROTEIN L15



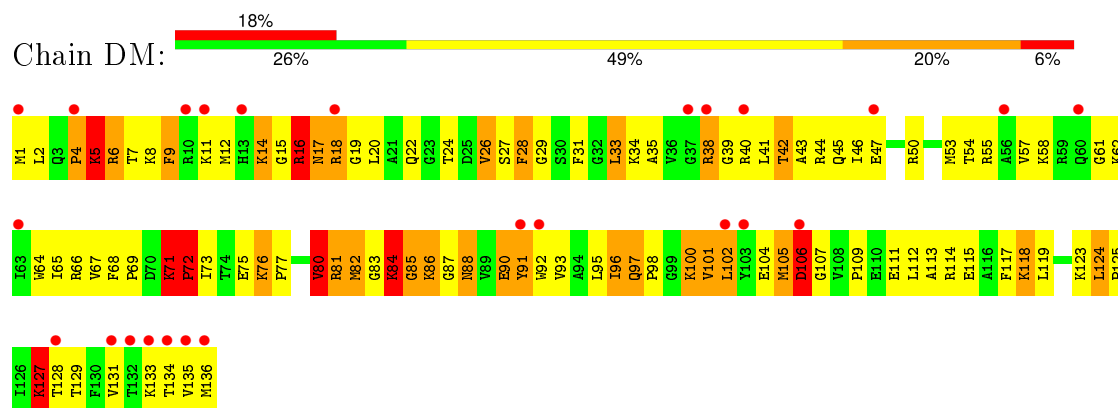
- Molecule 33: 50S RIBOSOMAL PROTEIN L15



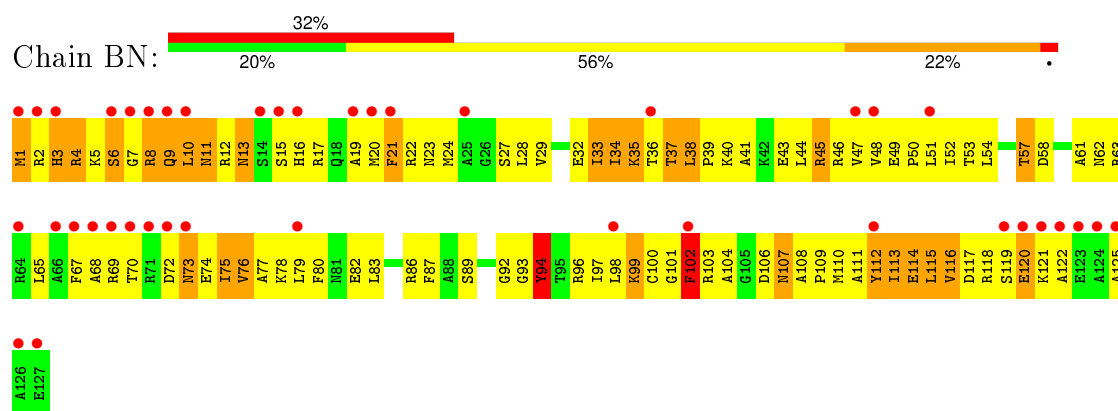
- Molecule 34: 50S RIBOSOMAL PROTEIN L16



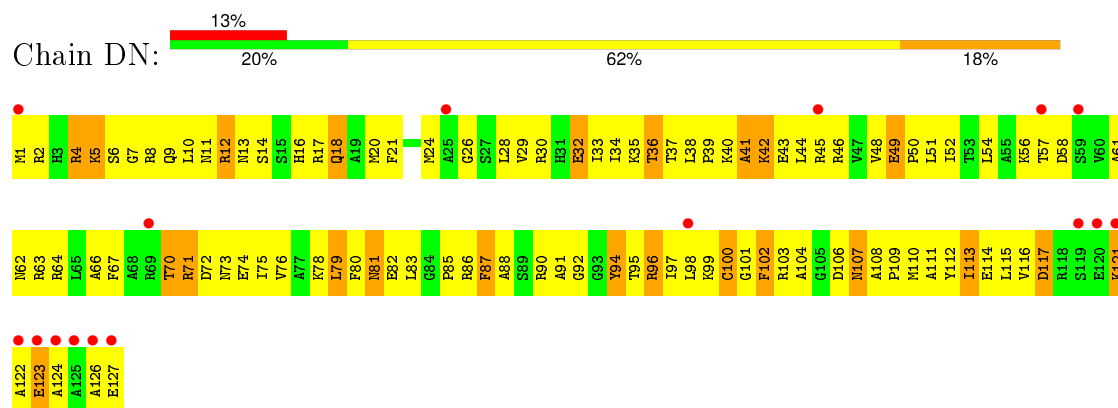
• Molecule 34: 50S RIBOSOMAL PROTEIN L16



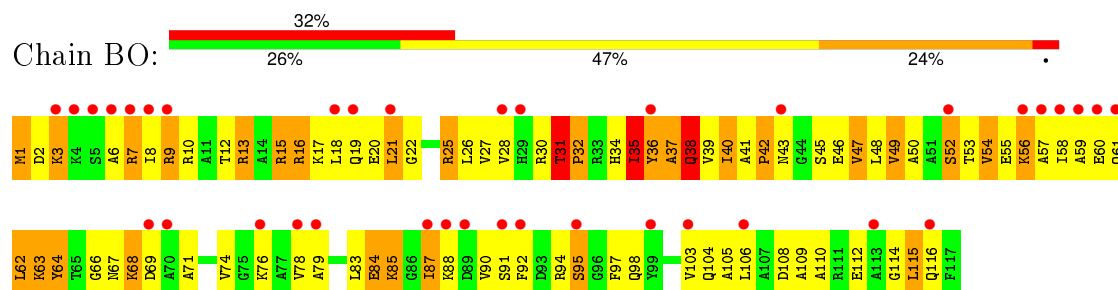
• Molecule 35: 50S RIBOSOMAL PROTEIN L17



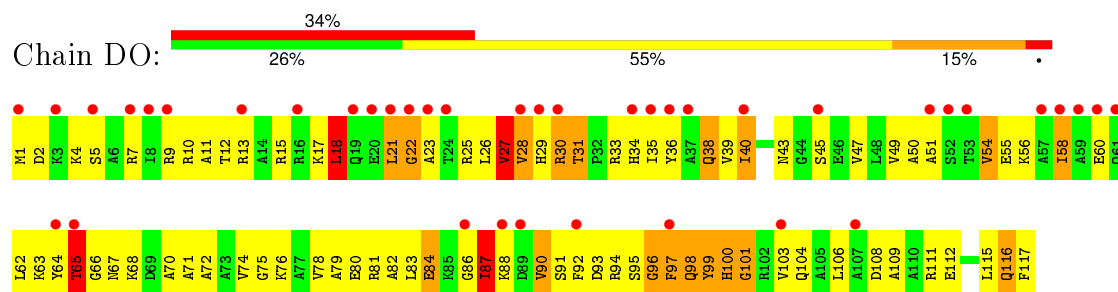
• Molecule 35: 50S RIBOSOMAL PROTEIN L17



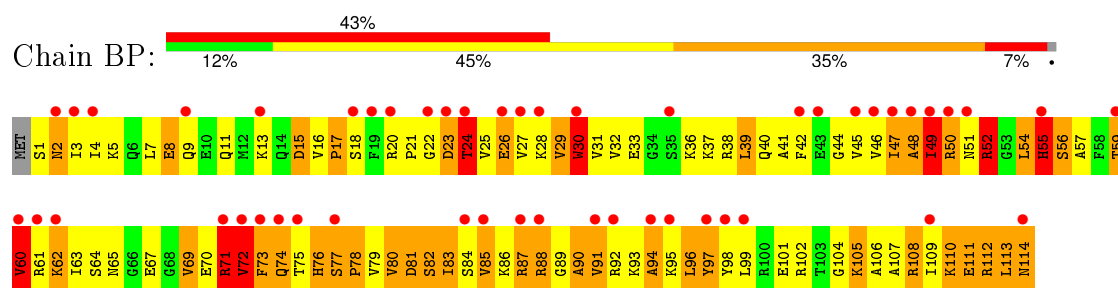
• Molecule 36: 50S RIBOSOMAL PROTEIN L18



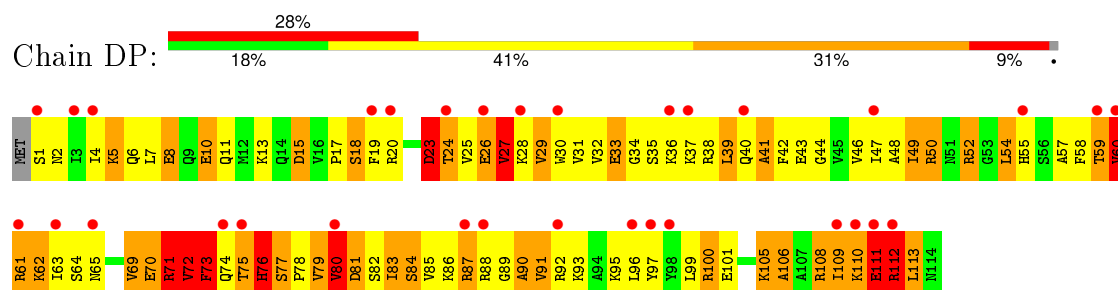
• Molecule 36: 50S RIBOSOMAL PROTEIN L18



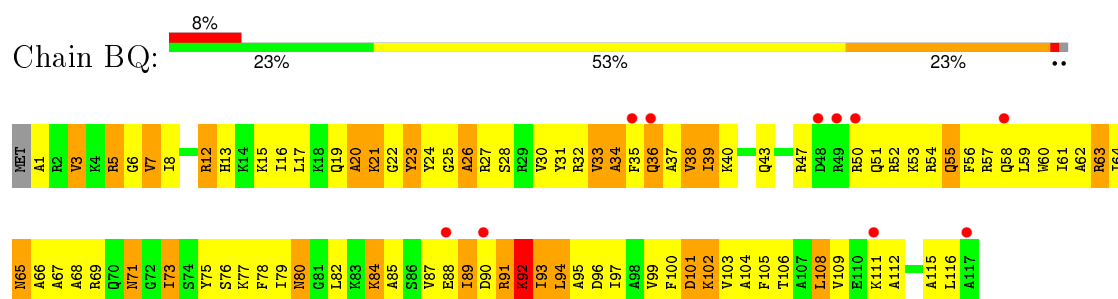
• Molecule 37: 50S RIBOSOMAL PROTEIN L19



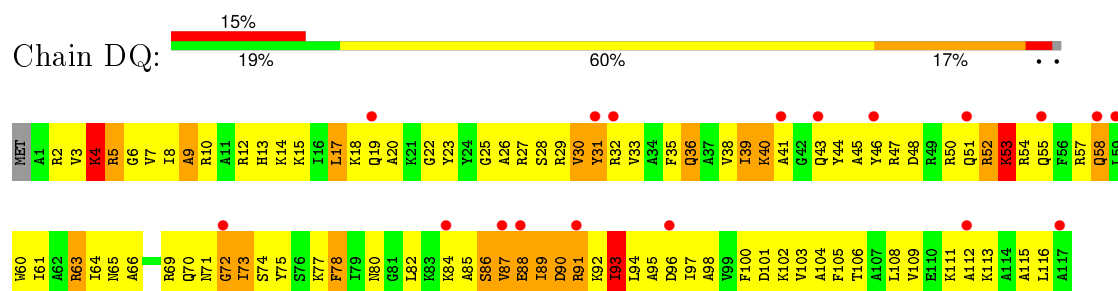
• Molecule 37: 50S RIBOSOMAL PROTEIN L19



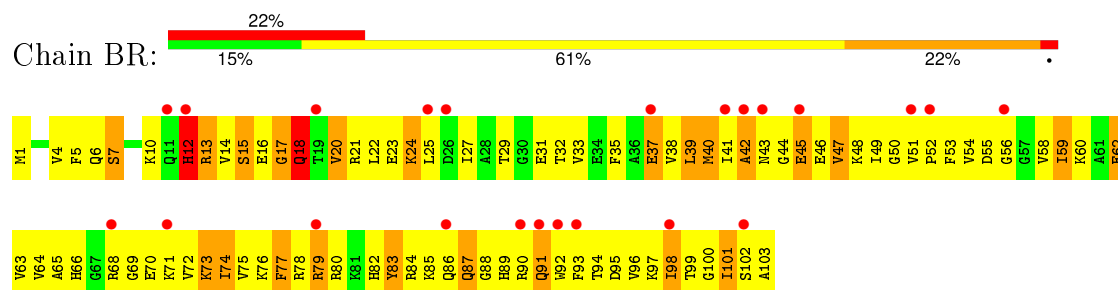
• Molecule 38: 50S RIBOSOMAL PROTEIN L20



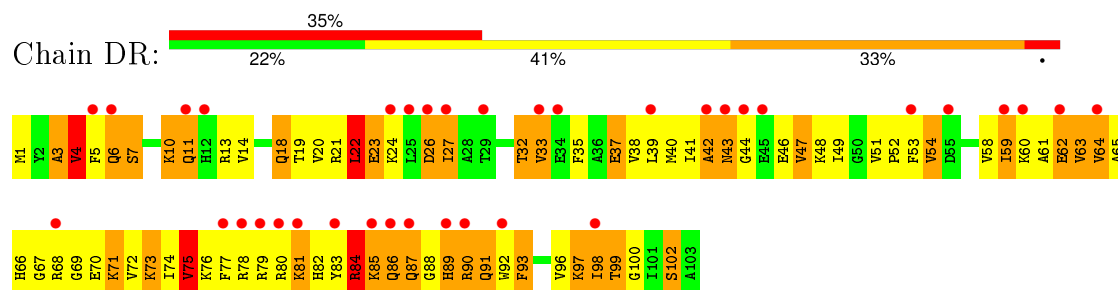
• Molecule 38: 50S RIBOSOMAL PROTEIN L20



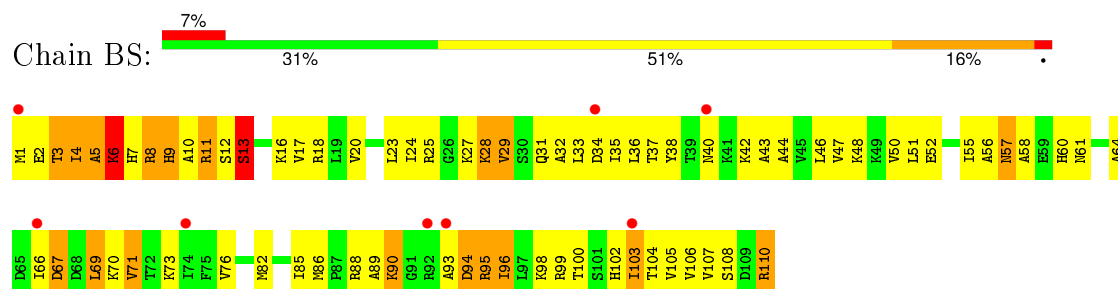
- Molecule 39: 50S RIBOSOMAL PROTEIN L21



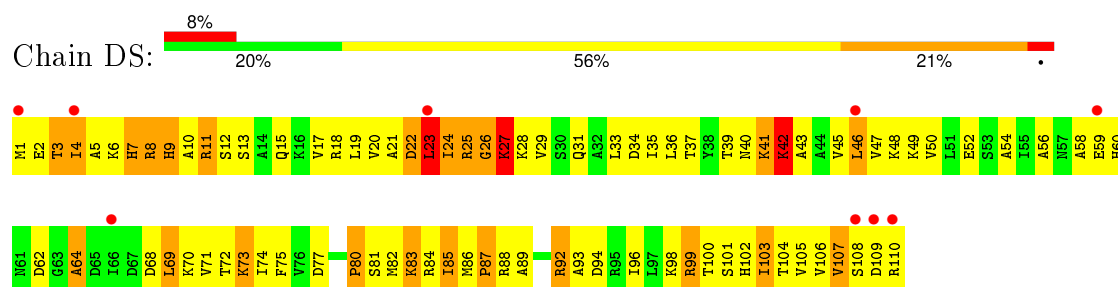
- Molecule 39: 50S RIBOSOMAL PROTEIN L21



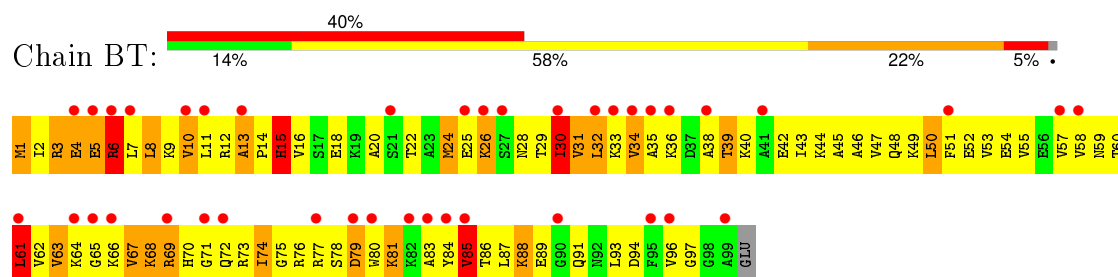
- Molecule 40: 50S RIBOSOMAL PROTEIN L22



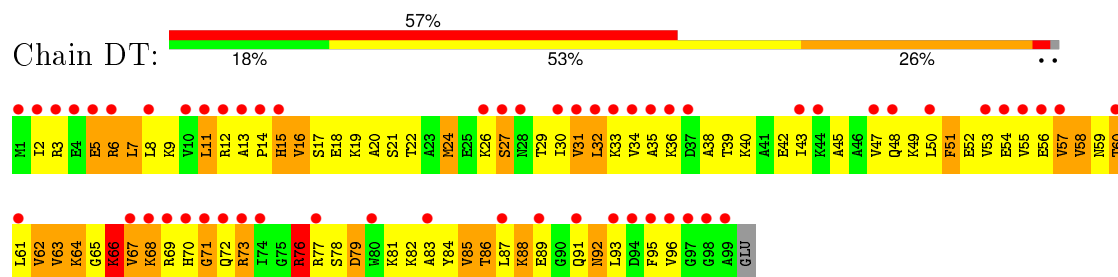
- Molecule 40: 50S RIBOSOMAL PROTEIN L22



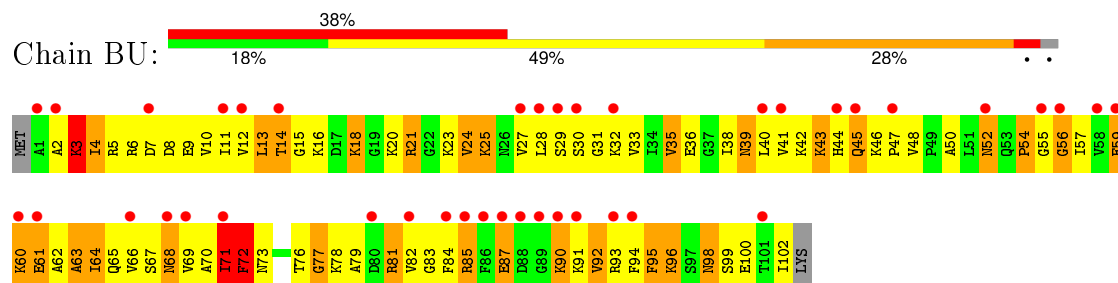
- Molecule 41: 50S RIBOSOMAL PROTEIN L23



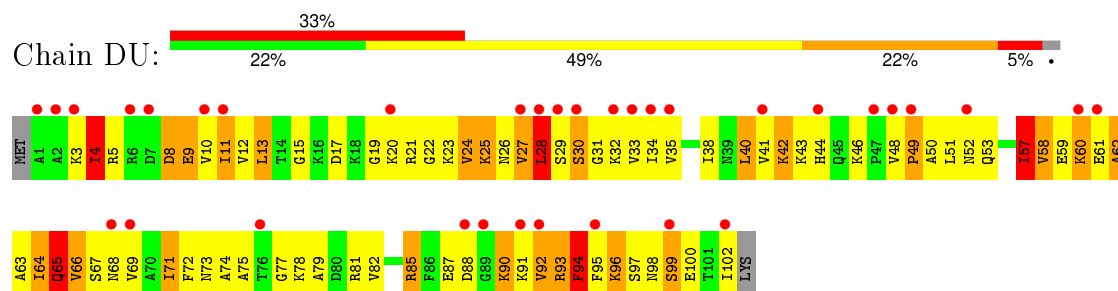
- Molecule 41: 50S RIBOSOMAL PROTEIN L23



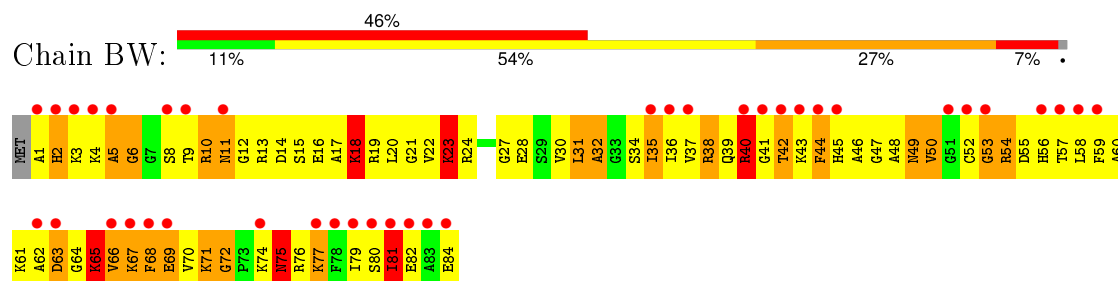
- Molecule 42: 50S RIBOSOMAL PROTEIN L24



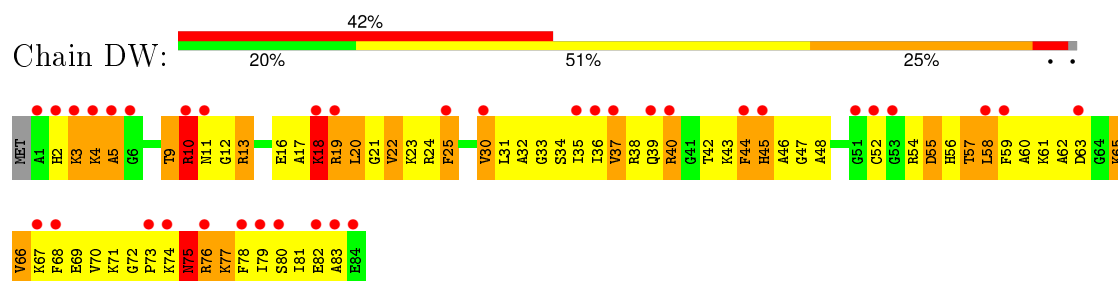
- Molecule 42: 50S RIBOSOMAL PROTEIN L24



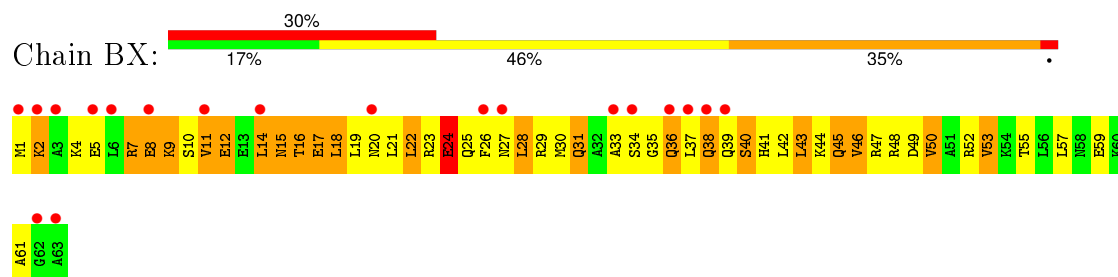
- Molecule 43: 50S RIBOSOMAL PROTEIN L27



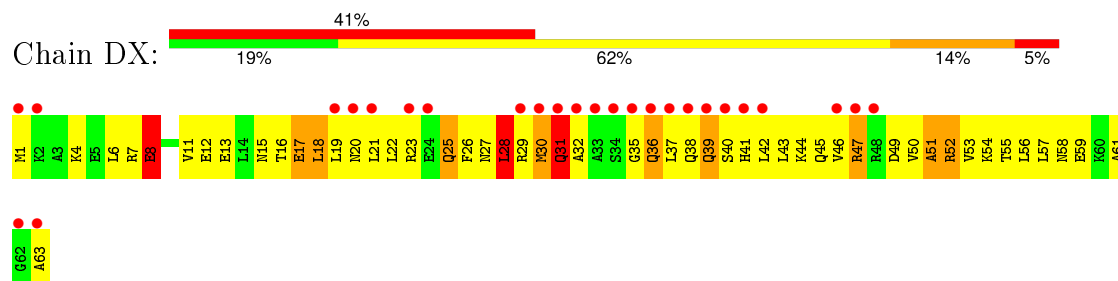
- Molecule 43: 50S RIBOSOMAL PROTEIN L27



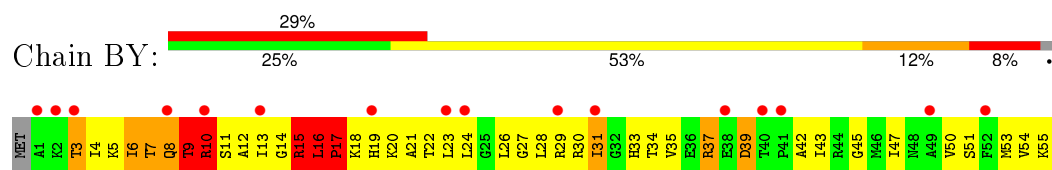
● Molecule 44: 50S RIBOSOMAL PROTEIN L29



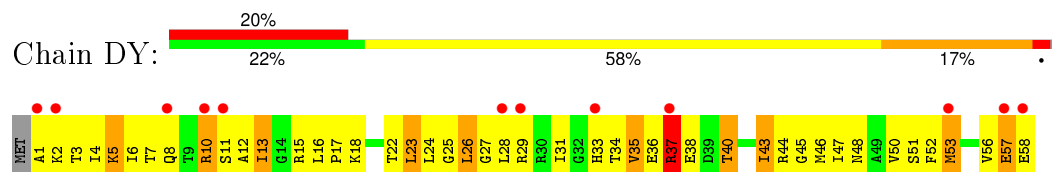
● Molecule 44: 50S RIBOSOMAL PROTEIN L29



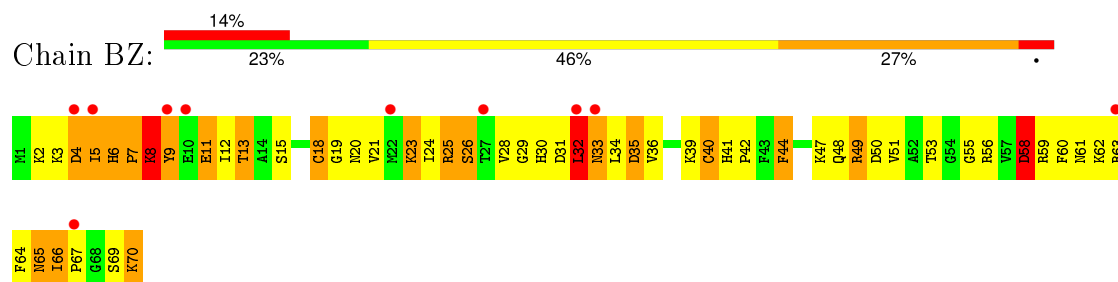
● Molecule 45: 50S RIBOSOMAL PROTEIN L30



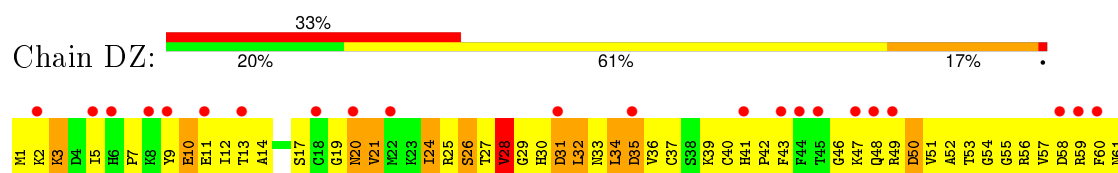
● Molecule 45: 50S RIBOSOMAL PROTEIN L30

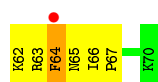


● Molecule 46: 50S RIBOSOMAL PROTEIN L31

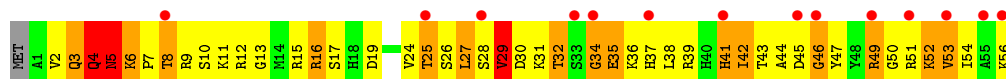
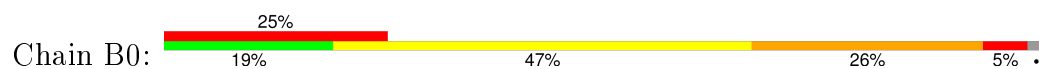


● Molecule 46: 50S RIBOSOMAL PROTEIN L31





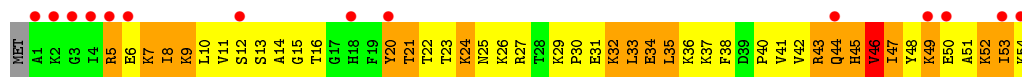
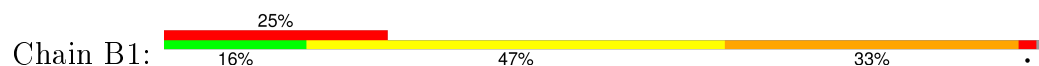
• Molecule 47: 50S RIBOSOMAL PROTEIN L32



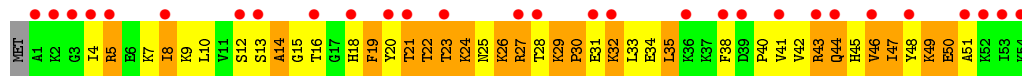
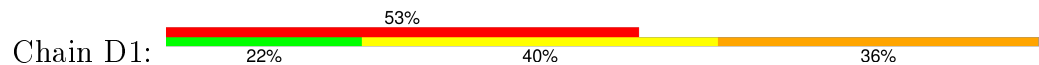
• Molecule 47: 50S RIBOSOMAL PROTEIN L32



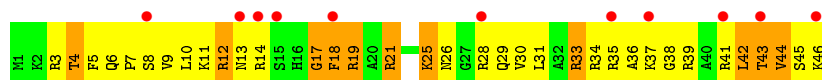
• Molecule 48: 50S RIBOSOMAL PROTEIN L33



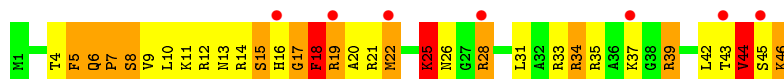
• Molecule 48: 50S RIBOSOMAL PROTEIN L33



• Molecule 49: 50S RIBOSOMAL PROTEIN L34

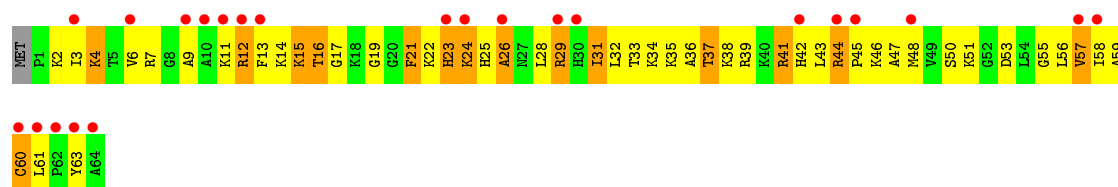


• Molecule 49: 50S RIBOSOMAL PROTEIN L34

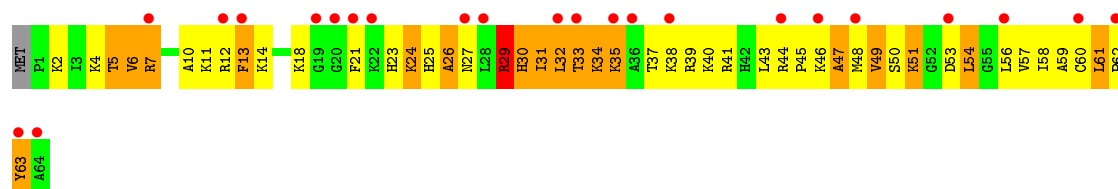


• Molecule 50: 50S RIBOSOMAL PROTEIN L35

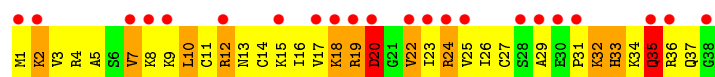
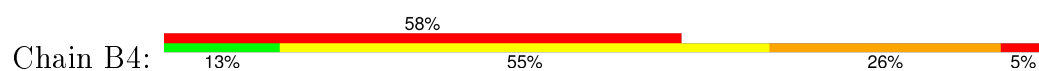




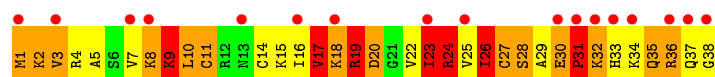
• Molecule 50: 50S RIBOSOMAL PROTEIN L35



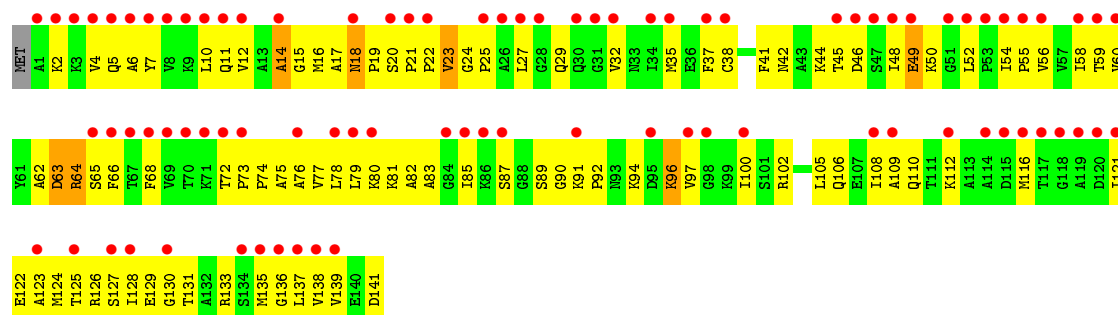
• Molecule 51: 50S RIBOSOMAL PROTEIN L36



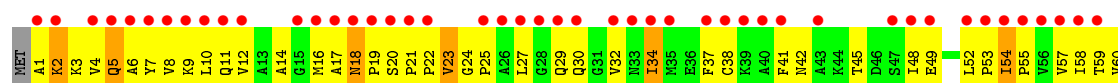
• Molecule 51: 50S RIBOSOMAL PROTEIN L36

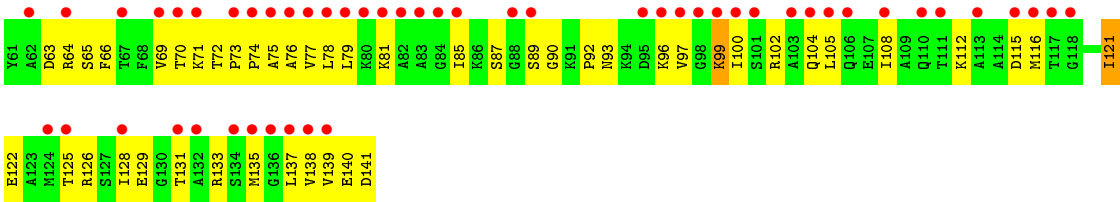


• Molecule 52: 50S RIBOSOMAL PROTEIN L11



• Molecule 52: 50S RIBOSOMAL PROTEIN L11





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.85Å 379.20Å 739.28Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	70.00 – 3.46 112.47 – 3.53	Depositor EDS
% Data completeness (in resolution range)	91.6 (70.00-3.46) 93.1 (112.47-3.53)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.56 (at 3.58Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.279 , 0.331 0.289 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	83.5	Xtriage
Anisotropy	0.179	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 66.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Outliers	0 of 661147 reflections	Xtriage
F_o, F_c correlation	0.85	EDS
Total number of atoms	284160	wwPDB-VP
Average B, all atoms (Å ²)	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.37% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

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	0.23	0/36762	0.71	5/57350 (0.0%)
1	CA	0.23	0/36762	0.72	7/57350 (0.0%)
2	AC	0.23	0/1651	0.44	0/2225
2	CC	0.23	0/1651	0.47	0/2225
3	AD	0.23	0/1665	0.46	0/2227
3	CD	0.23	0/1665	0.45	0/2227
4	AE	0.23	0/1118	0.44	0/1504
4	CE	0.24	0/1118	0.45	0/1504
5	AF	0.24	0/835	0.46	0/1128
5	CF	0.24	0/835	0.47	0/1128
6	AG	0.23	0/1187	0.44	0/1591
6	CG	0.23	0/1211	0.45	0/1624
7	AH	0.23	0/989	0.44	0/1326
7	CH	0.24	0/989	0.45	0/1326
8	AI	0.24	0/1034	0.45	0/1375
8	CI	0.24	0/1034	0.45	0/1375
9	AJ	0.23	0/796	0.49	0/1077
9	CJ	0.22	0/796	0.49	0/1077
10	AK	0.24	0/893	0.46	0/1205
10	CK	0.24	0/893	0.46	0/1205
11	AL	0.22	0/969	0.46	0/1300
11	CL	0.22	0/969	0.47	0/1300
12	AM	0.21	0/892	0.47	0/1193
12	CM	0.21	0/884	0.46	0/1181
13	AN	0.24	0/785	0.45	0/1043
13	CN	0.24	0/785	0.44	0/1043
14	AO	0.23	0/724	0.45	0/966
14	CO	0.23	0/724	0.44	0/966
15	AP	0.26	0/659	0.44	0/884
15	CP	0.25	0/648	0.45	0/870
16	AQ	0.23	0/657	0.46	0/881
16	CQ	0.24	0/666	0.47	0/892

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AR	0.23	0/462	0.45	0/621
17	CR	0.23	0/462	0.45	0/621
18	AS	0.25	0/652	0.47	0/877
18	CS	0.25	0/660	0.46	0/888
19	AT	0.23	0/671	0.41	0/888
19	CT	0.23	0/671	0.42	0/888
20	AB	0.25	0/1735	0.46	0/2338
20	CB	0.25	0/1735	0.46	0/2338
21	AU	0.26	0/430	0.49	0/570
21	CU	0.26	0/430	0.48	0/570
22	BA	0.23	0/2803	0.69	0/4371
22	DA	0.25	0/2803	0.71	0/4371
23	BB	0.26	5/68314 (0.0%)	0.73	22/106569 (0.0%)
23	DB	0.26	5/68314 (0.0%)	0.73	18/106569 (0.0%)
24	BV	0.25	0/766	0.44	0/1025
24	DV	0.25	0/766	0.44	0/1025
25	BC	0.24	0/2092	0.56	0/2813
25	DC	0.23	0/2092	0.56	0/2813
26	BD	0.26	0/1586	0.54	0/2134
26	DD	0.26	0/1586	0.54	0/2134
27	BE	0.25	0/1571	0.54	0/2113
27	DE	0.25	0/1571	0.53	0/2113
28	BF	0.27	0/1444	0.62	0/1937
28	DF	0.26	0/1444	0.59	0/1937
29	BG	0.23	0/1343	0.52	0/1816
29	DG	0.23	0/1343	0.52	0/1816
30	BH	0.25	0/1122	0.51	0/1515
30	DH	0.25	0/1122	0.53	0/1515
31	BJ	0.24	0/1135	0.49	0/1529
31	DJ	0.23	0/1135	0.56	0/1529
32	BK	0.24	0/939	0.63	0/1258
32	DK	0.23	0/939	0.61	0/1258
33	BL	0.27	0/1062	0.72	0/1413
33	DL	0.28	0/1062	0.76	2/1413 (0.1%)
34	BM	0.27	0/1093	0.60	0/1460
34	DM	0.26	0/1093	0.58	0/1460
35	BN	0.24	0/1021	0.52	0/1364
35	DN	0.24	0/1021	0.47	0/1364
36	BO	0.24	0/910	0.50	0/1219
36	DO	0.23	0/910	0.46	0/1219
37	BP	0.26	0/929	0.84	3/1242 (0.2%)
37	DP	0.27	0/929	0.86	3/1242 (0.2%)
38	BQ	0.25	0/960	0.47	0/1278

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DQ	0.26	0/960	0.50	0/1278
39	BR	0.30	0/829	0.60	0/1107
39	DR	0.26	0/829	0.55	0/1107
40	BS	0.22	0/864	0.50	0/1156
40	DS	0.22	0/864	0.51	0/1156
41	BT	0.24	0/784	0.50	0/1048
41	DT	0.25	0/784	0.54	0/1048
42	BU	0.26	0/787	0.54	0/1051
42	DU	0.25	0/787	0.61	1/1051 (0.1%)
43	BW	0.27	0/642	0.59	0/848
43	DW	0.27	0/642	0.53	0/848
44	BX	0.24	0/510	0.55	0/677
44	DX	0.23	0/510	0.50	0/677
45	BY	0.25	0/453	0.51	0/605
45	DY	0.24	0/453	0.54	0/605
46	BZ	0.28	0/559	0.67	0/745
46	DZ	0.28	0/559	0.61	0/745
47	B0	0.24	0/450	0.52	0/599
47	D0	0.25	0/450	0.58	0/599
48	B1	0.27	0/448	0.51	0/594
48	D1	0.27	0/448	0.50	0/594
49	B2	0.26	0/380	0.48	0/498
49	D2	0.26	0/380	0.47	0/498
50	B3	0.25	0/513	0.54	0/676
50	D3	0.25	0/513	0.51	0/676
51	B4	0.24	0/303	0.54	0/397
51	D4	0.24	0/303	0.53	0/397
52	BI	0.24	0/1046	0.50	0/1410
52	DI	0.26	0/1046	0.53	0/1410
All	All	0.25	10/306470 (0.0%)	0.68	61/458101 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	14
1	CA	0	16
23	BB	0	41
23	DB	1	41
47	D0	0	1
All	All	1	113

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	BB	1086	A	C5-C6	-17.07	1.25	1.41
23	DB	1086	A	C5-C6	-17.02	1.25	1.41
23	DB	1088	A	C6-N1	-10.55	1.28	1.35
23	BB	1088	A	C6-N1	-10.45	1.28	1.35
23	BB	1060	U	C2-N3	7.88	1.43	1.37
23	DB	1060	U	C2-N3	7.88	1.43	1.37
23	DB	1086	A	N7-C5	-7.07	1.35	1.39
23	BB	1086	A	N7-C5	-7.03	1.35	1.39
23	BB	1086	A	N3-C4	-5.24	1.31	1.34
23	DB	1086	A	N3-C4	-5.11	1.31	1.34

All (61) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	DB	2791	G	O5'-P-OP2	-26.15	79.33	110.70
23	BB	2791	G	O5'-P-OP1	-26.11	79.37	110.70
23	DB	2791	G	O5'-P-OP1	19.42	134.01	110.70
23	BB	2791	G	O5'-P-OP2	19.11	133.63	110.70
23	DB	2790	U	OP2-P-O3'	15.02	138.25	105.20
23	BB	2790	U	OP1-P-O3'	14.91	138.01	105.20
23	BB	2272	U	C5-C4-O4	-9.03	120.48	125.90
23	DB	2272	U	N3-C4-O4	-8.62	113.36	119.40
23	DB	1088	A	N1-C6-N6	-8.31	113.62	118.60
23	BB	1088	A	N1-C6-N6	-8.21	113.67	118.60
23	BB	1552	A	N9-C1'-C2'	-8.18	103.00	112.00
23	DB	1552	A	N9-C1'-C2'	-8.12	103.07	112.00
23	DB	2076	U	C2'-C3'-O3'	8.12	127.35	109.50
1	CA	765	G	N9-C1'-C2'	-7.70	103.53	112.00
1	AA	765	G	N9-C1'-C2'	-7.67	103.57	112.00
33	DL	118	THR	N-CA-C	7.50	131.26	111.00
23	BB	2733	A	N9-C1'-C2'	-7.46	103.79	112.00
23	DB	2733	A	N9-C1'-C2'	-7.45	103.81	112.00
23	DB	1060	U	C5-C4-O4	-7.35	121.49	125.90
37	BP	71	ARG	N-CA-C	7.26	130.61	111.00
23	BB	1060	U	C5-C4-O4	-7.19	121.59	125.90
37	DP	71	ARG	N-CA-C	7.02	129.96	111.00
23	BB	1086	A	C4-C5-C6	6.85	120.42	117.00
37	BP	79	VAL	N-CA-C	6.84	129.46	111.00
23	DB	1439	A	N9-C1'-C2'	-6.83	104.49	112.00
37	DP	72	VAL	N-CA-C	6.83	129.43	111.00
23	DB	1086	A	C4-C5-C6	6.81	120.40	117.00
23	BB	1439	A	N9-C1'-C2'	-6.76	104.56	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	DB	2790	U	O3'-P-O5'	-6.72	91.22	104.00
33	DL	117	THR	N-CA-C	-6.70	92.92	111.00
1	AA	438	U	N1-C1'-C2'	-6.67	104.66	112.00
1	CA	438	U	N1-C1'-C2'	-6.65	104.69	112.00
1	CA	576	C	O5'-P-OP1	-6.57	99.79	105.70
23	BB	1086	A	C6-C5-N7	-6.52	127.73	132.30
23	DB	1086	A	C6-C5-N7	-6.48	127.76	132.30
37	BP	72	VAL	N-CA-C	6.44	128.39	111.00
23	DB	1088	A	C5-C6-N6	6.41	128.83	123.70
23	BB	1088	A	C5-C6-N6	6.38	128.80	123.70
23	BB	2790	U	O3'-P-O5'	-6.36	91.92	104.00
23	DB	2272	U	C5-C4-O4	-5.80	122.42	125.90
23	BB	1060	U	N1-C2-O2	-5.68	118.82	122.80
23	DB	1060	U	N1-C2-O2	-5.67	118.83	122.80
1	CA	1432	G	N9-C1'-C2'	-5.64	105.79	112.00
23	BB	2267	A	C5-C6-N6	-5.63	119.20	123.70
23	BB	2267	A	O4'-C1'-N9	-5.61	103.72	108.20
23	BB	2267	A	C4-N9-C1'	5.46	136.13	126.30
1	AA	521	G	N9-C1'-C2'	-5.43	106.03	112.00
23	BB	2272	U	N3-C4-O4	-5.41	115.61	119.40
1	CA	521	G	N9-C1'-C2'	-5.41	106.05	112.00
1	CA	328	C	C2'-C3'-O3'	5.39	122.33	113.70
23	DB	1060	U	N3-C2-O2	5.38	125.97	122.20
23	BB	2267	A	C8-N9-C1'	-5.38	118.02	127.70
1	AA	328	C	C2'-C3'-O3'	5.36	122.28	113.70
23	BB	1060	U	N3-C2-O2	5.34	125.94	122.20
23	BB	2272	U	N1-C1'-C2'	-5.33	106.14	112.00
1	CA	1534	A	C2'-C3'-O3'	-5.30	97.84	109.50
23	BB	1086	A	C2-N3-C4	-5.28	107.96	110.60
23	DB	1086	A	C2-N3-C4	-5.16	108.02	110.60
1	AA	66	A	N9-C1'-C2'	-5.09	106.40	112.00
37	DP	70	GLU	N-CA-C	5.07	124.67	111.00
42	DU	49	PRO	N-CA-C	-5.05	98.96	112.10

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
23	DB	2076	U	C3'

All (113) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1047	G	Sidechain
1	AA	1319	A	Sidechain
1	AA	1331	G	Sidechain
1	AA	1441	A	Sidechain
1	AA	187	G	Sidechain
1	AA	281	G	Sidechain
1	AA	324	G	Sidechain
1	AA	437	U	Sidechain
1	AA	438	U	Sidechain
1	AA	454	G	Sidechain
1	AA	496	A	Sidechain
1	AA	521	G	Sidechain
1	AA	575	G	Sidechain
1	AA	703	G	Sidechain
23	BB	1047	G	Sidechain
23	BB	1060	U	Sidechain
23	BB	1086	A	Sidechain
23	BB	1088	A	Sidechain
23	BB	1119	U	Sidechain
23	BB	1240	U	Sidechain
23	BB	1250	G	Sidechain
23	BB	1419	A	Sidechain
23	BB	1439	A	Sidechain
23	BB	1450	G	Sidechain
23	BB	1462	C	Sidechain
23	BB	1546	G	Sidechain
23	BB	1572	A	Sidechain
23	BB	1828	G	Sidechain
23	BB	2108	A	Sidechain
23	BB	221	A	Sidechain
23	BB	2213	U	Sidechain
23	BB	222	A	Sidechain
23	BB	2267	A	Sidechain
23	BB	2272	U	Sidechain
23	BB	2318	G	Sidechain
23	BB	2413	G	Sidechain
23	BB	2471	A	Sidechain
23	BB	2638	G	Sidechain
23	BB	2733	A	Sidechain
23	BB	2770	G	Sidechain
23	BB	2834	G	Sidechain
23	BB	2848	G	Sidechain
23	BB	2857	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
23	BB	2868	A	Sidechain
23	BB	2883	A	Sidechain
23	BB	299	A	Sidechain
23	BB	361	G	Sidechain
23	BB	500	G	Sidechain
23	BB	51	G	Sidechain
23	BB	630	G	Sidechain
23	BB	633	A	Sidechain
23	BB	727	A	Sidechain
23	BB	729	G	Sidechain
23	BB	757	G	Sidechain
23	BB	942	G	Sidechain
1	CA	1133	G	Sidechain
1	CA	1319	A	Sidechain
1	CA	1362	A	Sidechain
1	CA	1432	G	Sidechain
1	CA	1441	A	Sidechain
1	CA	187	G	Sidechain
1	CA	281	G	Sidechain
1	CA	324	G	Sidechain
1	CA	437	U	Sidechain
1	CA	438	U	Sidechain
1	CA	454	G	Sidechain
1	CA	496	A	Sidechain
1	CA	521	G	Sidechain
1	CA	575	G	Sidechain
1	CA	703	G	Sidechain
1	CA	83	C	Sidechain
47	D0	48	TYR	Sidechain
23	DB	1047	G	Sidechain
23	DB	1060	U	Sidechain
23	DB	1086	A	Sidechain
23	DB	1088	A	Sidechain
23	DB	1247	A	Sidechain
23	DB	136	G	Sidechain
23	DB	1419	A	Sidechain
23	DB	1439	A	Sidechain
23	DB	1450	G	Sidechain
23	DB	1462	C	Sidechain
23	DB	1546	G	Sidechain
23	DB	1572	A	Sidechain
23	DB	1828	G	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
23	DB	2062	A	Sidechain
23	DB	2108	A	Sidechain
23	DB	214	G	Sidechain
23	DB	221	A	Sidechain
23	DB	222	A	Sidechain
23	DB	2267	A	Sidechain
23	DB	2272	U	Sidechain
23	DB	232	G	Sidechain
23	DB	2413	G	Sidechain
23	DB	2471	A	Sidechain
23	DB	2503	A	Sidechain
23	DB	2638	G	Sidechain
23	DB	2733	A	Sidechain
23	DB	2770	G	Sidechain
23	DB	28	A	Sidechain
23	DB	2834	G	Sidechain
23	DB	2848	G	Sidechain
23	DB	2857	G	Sidechain
23	DB	2868	A	Sidechain
23	DB	2883	A	Sidechain
23	DB	299	A	Sidechain
23	DB	500	G	Sidechain
23	DB	630	G	Sidechain
23	DB	633	A	Sidechain
23	DB	727	A	Sidechain
23	DB	729	G	Sidechain
23	DB	757	G	Sidechain
23	DB	858	G	Sidechain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32831	0	16521	1330	0
1	CA	32831	0	16521	1382	0
2	AC	1624	0	1699	184	0
2	CC	1624	0	1699	162	0
3	AD	1643	0	1710	173	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	CD	1643	0	1710	175	0
4	AE	1105	0	1148	108	0
4	CE	1105	0	1148	143	0
5	AF	817	0	808	73	0
5	CF	817	0	808	102	0
6	AG	1174	0	1230	104	0
6	CG	1196	0	1246	101	0
7	AH	979	0	1034	85	0
7	CH	979	0	1034	80	0
8	AI	1022	0	1070	156	0
8	CI	1022	0	1070	125	0
9	AJ	786	0	828	95	0
9	CJ	786	0	828	111	0
10	AK	877	0	887	104	0
10	CK	877	0	887	106	0
11	AL	955	0	1019	105	0
11	CL	955	0	1019	91	0
12	AM	883	0	944	88	0
12	CM	876	0	937	113	0
13	AN	774	0	827	104	0
13	CN	774	0	827	121	0
14	AO	716	0	742	53	0
14	CO	716	0	742	55	0
15	AP	649	0	666	78	0
15	CP	638	0	656	79	0
16	AQ	648	0	691	101	0
16	CQ	657	0	702	90	0
17	AR	455	0	478	42	0
17	CR	455	0	478	45	0
18	AS	637	0	665	87	0
18	CS	644	0	675	96	0
19	AT	665	0	714	59	0
19	CT	665	0	714	58	0
20	AB	1704	0	1732	195	0
20	CB	1704	0	1732	167	0
21	AU	425	0	449	68	0
21	CU	425	0	449	65	0
22	BA	2507	0	1270	84	0
22	DA	2507	0	1270	117	0
23	BB	60995	0	30678	2753	0
23	DB	60995	0	30677	2695	0
24	BV	753	0	780	100	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	DV	753	0	780	69	0
25	BC	2053	0	2122	451	0
25	DC	2053	0	2122	389	0
26	BD	1565	0	1616	379	0
26	DD	1565	0	1616	309	0
27	BE	1552	0	1619	279	0
27	DE	1552	0	1619	256	0
28	BF	1420	0	1460	170	0
28	DF	1420	0	1460	157	0
29	BG	1323	0	1374	166	0
29	DG	1323	0	1374	158	0
30	BH	1111	0	1148	173	0
30	DH	1111	0	1148	166	0
31	BJ	1112	0	1147	220	0
31	DJ	1112	0	1147	207	0
32	BK	930	0	1000	123	0
32	DK	930	0	1000	124	0
33	BL	1053	0	1129	277	0
33	DL	1053	0	1129	250	0
34	BM	1074	0	1157	238	0
34	DM	1074	0	1157	169	0
35	BN	1008	0	1045	186	0
35	DN	1008	0	1045	158	0
36	BO	900	0	935	128	0
36	DO	900	0	935	137	0
37	BP	917	0	965	198	0
37	DP	917	0	965	196	0
38	BQ	947	0	1022	199	0
38	DQ	947	0	1022	175	0
39	BR	816	0	839	170	0
39	DR	816	0	839	166	0
40	BS	857	0	922	124	0
40	DS	857	0	922	116	0
41	BT	777	0	840	148	0
41	DT	777	0	840	133	0
42	BU	779	0	834	163	0
42	DU	779	0	834	121	0
43	BW	634	0	656	161	0
43	DW	634	0	656	169	0
44	BX	509	0	543	77	0
44	DX	509	0	543	83	0
45	BY	449	0	491	60	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	DY	449	0	491	81	0
46	BZ	549	0	552	111	0
46	DZ	549	0	552	102	0
47	B0	444	0	461	74	0
47	D0	444	0	461	91	0
48	B1	441	0	485	80	0
48	D1	441	0	485	77	0
49	B2	377	0	418	59	0
49	D2	377	0	418	67	0
50	B3	504	0	574	115	0
50	D3	504	0	574	107	0
51	B4	302	0	343	63	0
51	D4	302	0	343	75	0
52	BI	1032	0	1088	121	0
52	DI	1032	0	1088	183	0
53	AA	26	0	23	3	0
53	CA	26	0	23	1	0
54	AA	60	0	0	0	0
54	BB	110	0	0	0	0
54	CA	62	0	0	0	0
54	DB	109	0	0	0	0
54	DE	1	0	0	0	0
54	DN	1	0	0	0	0
55	AA	289	0	0	1	0
55	AE	3	0	0	0	0
55	AK	2	0	0	0	0
55	AN	3	0	0	0	0
55	AP	2	0	0	0	0
55	AT	1	0	0	0	0
55	BB	497	0	0	11	0
55	BC	1	0	0	0	0
55	BE	5	0	0	0	0
55	BH	1	0	0	0	0
55	BL	2	0	0	0	0
55	BN	1	0	0	0	0
55	CA	293	0	0	1	0
55	CE	3	0	0	0	0
55	CK	1	0	0	0	0
55	CL	4	0	0	0	0
55	CN	3	0	0	0	0
55	CP	1	0	0	0	0
55	CT	3	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	D2	2	0	0	0	0
55	DB	501	0	0	10	0
55	DC	1	0	0	0	0
55	DD	1	0	0	0	0
55	DE	3	0	0	0	0
55	DL	1	0	0	0	0
55	DN	2	0	0	0	0
55	DT	1	0	0	0	0
All	All	284160	0	190815	19652	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 (19652) 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)
23:DB:1099:G:O5'	52:DI:4:VAL:N	1.71	1.23
32:DK:78:ARG:HG2	37:DP:72:VAL:HG21	1.24	1.15
23:DB:1098:A:H3'	52:DI:3:LYS:CA	1.76	1.15
23:DB:587:C:H3'	33:DL:29:LYS:HD2	1.20	1.14
48:D1:29:LYS:HB2	48:D1:30:PRO:HD3	1.30	1.14
1:AA:699:C:H2'	1:AA:700:G:H5''	1.28	1.14
23:BB:662:G:H4'	33:BL:24:GLY:H	1.11	1.13
42:DU:60:LYS:HE3	42:DU:61:GLU:H	1.08	1.13
23:DB:458:G:H5''	49:D2:39:ARG:HB2	1.30	1.12
44:DX:43:LEU:HB2	44:DX:45:GLN:HE22	1.13	1.12
23:BB:85:G:H5'	42:BU:28:LEU:HA	1.30	1.11
1:CA:243:A:H4'	1:CA:244:U:H5'	1.29	1.11
20:AB:163:ILE:HG23	20:AB:164:ASP:H	1.14	1.11
33:DL:7:SER:HB2	33:DL:8:PRO:HD3	1.24	1.11
36:BO:57:ALA:HB2	36:BO:62:LEU:HD22	1.30	1.10
32:BK:108:ARG:HH21	37:BP:36:LYS:HG3	1.06	1.10
30:BH:82:SER:H	30:BH:146:VAL:HG13	1.16	1.10
23:BB:2750:A:H4'	29:BG:1:SER:HB2	1.34	1.09
34:BM:3:GLN:H	34:BM:4:PRO:HD2	1.04	1.09
34:DM:57:VAL:HG21	34:DM:112:LEU:HD21	1.33	1.09
23:BB:38:A:O4'	27:BE:46:GLN:HG3	1.53	1.08
20:CB:46:VAL:HG13	20:CB:47:PRO:HD3	1.35	1.08
25:DC:33:LEU:HD22	25:DC:34:GLU:HG3	1.35	1.08
11:CL:43:LYS:HB3	11:CL:44:PRO:HD2	1.28	1.08
1:CA:974:A:H4'	1:CA:975:A:H5'	1.28	1.08

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2527:C:H5''	51:D4:34:LYS:HG3	1.35	1.08
1:CA:699:C:H2'	1:CA:700:G:H5''	1.28	1.08
1:AA:243:A:H4'	1:AA:244:U:H5'	1.29	1.07
26:BD:24:VAL:HG21	26:BD:193:VAL:HG11	1.36	1.06
43:DW:38:ARG:HH21	43:DW:40:ARG:HD3	1.16	1.06
25:BC:42:ARG:HG2	25:BC:43:ASN:H	1.14	1.06
23:BB:100:U:H4'	42:BU:90:LYS:HE2	1.36	1.05
23:DB:1098:A:H3'	52:DI:3:LYS:HA	1.37	1.05
25:BC:107:LYS:HB2	25:BC:194:VAL:HG11	1.39	1.05
23:BB:161:A:H3'	23:BB:162:U:H5''	1.35	1.05
23:BB:2204:G:H5'	25:BC:149:LYS:HE3	1.36	1.04
23:DB:45:G:H5''	23:DB:46:G:H5'	1.36	1.04
23:BB:2333:A:H4'	23:BB:2334:U:H5''	1.40	1.04
23:DB:1099:G:H8	52:DI:3:LYS:N	1.56	1.04
30:DH:3:VAL:HG22	30:DH:21:VAL:HG11	1.39	1.04
33:BL:14:LYS:HA	33:BL:14:LYS:HZ3	1.20	1.04
35:DN:45:ARG:HH22	35:DN:113:ILE:HG23	1.21	1.04
25:DC:107:LYS:HB2	25:DC:194:VAL:HG21	1.38	1.04
31:DJ:102:GLU:HG3	31:DJ:124:VAL:HG12	1.40	1.03
31:BJ:135:GLN:HG2	31:BJ:137:PRO:HD2	1.40	1.03
43:BW:47:GLY:HA3	43:BW:55:ASP:HB3	1.39	1.03
37:BP:52:ARG:HB3	37:BP:60:VAL:HG11	1.37	1.03
38:DQ:48:ASP:HA	38:DQ:51:GLN:HE21	1.20	1.03
18:AS:18:VAL:HG21	18:AS:43:MET:HG2	1.35	1.03
36:DO:56:LYS:HE2	36:DO:81:ARG:HE	1.16	1.03
23:BB:923:G:H1'	43:BW:23:LYS:HD3	1.38	1.03
27:BE:128:ALA:HB3	27:BE:129:PRO:HD3	1.36	1.03
20:AB:46:VAL:HG13	20:AB:47:PRO:HD3	1.38	1.03
42:DU:28:LEU:HD13	42:DU:30:SER:H	1.24	1.03
30:BH:37:VAL:H	30:BH:38:PRO:HD2	1.23	1.03
51:D4:26:ILE:HG13	51:D4:35:GLN:H	1.22	1.02
33:DL:51:GLU:HG2	33:DL:52:GLY:H	1.24	1.02
23:DB:323:C:H1'	27:DE:164:LEU:HB3	1.39	1.02
30:DH:6:LEU:HD12	30:DH:36:ALA:H	1.24	1.02
37:DP:93:LYS:HG2	37:DP:96:LEU:HA	1.41	1.02
33:BL:61:LEU:HB3	33:BL:62:PRO:HD2	1.42	1.02
15:AP:42:ILE:HB	15:AP:46:LYS:HD2	1.42	1.02
32:BK:71:ARG:HB3	32:BK:72:PRO:HD2	1.04	1.02
45:BY:16:LEU:HB2	45:BY:17:PRO:HD3	1.37	1.02
33:BL:13:LYS:HG3	33:BL:14:LYS:H	1.25	1.02
46:BZ:8:LYS:HD2	46:BZ:9:TYR:H	1.22	1.02

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:71:ARG:HB3	32:BK:72:PRO:CD	1.90	1.01
32:BK:8:LEU:HD23	32:BK:82:ASN:HB3	1.41	1.01
23:DB:1099:G:P	52:DI:4:VAL:H	1.83	1.01
37:DP:47:ILE:HG22	37:DP:48:ALA:H	1.22	1.01
23:DB:2091:C:H3'	23:DB:2092:U:H5''	1.43	1.01
23:DB:2333:A:H4'	23:DB:2334:U:H5''	1.40	1.00
8:CI:27:ILE:HG23	8:CI:34:LEU:HB2	1.42	1.00
48:D1:46:VAL:HG13	48:D1:47:ILE:HG13	1.41	1.00
34:BM:38:ARG:HB2	34:BM:38:ARG:HH11	1.26	1.00
23:BB:2052:A:H4'	26:BD:148:GLN:H	1.24	1.00
23:DB:1025:G:H1'	23:DB:1135:C:H5'	1.43	1.00
24:DV:63:ILE:H	24:DV:70:ILE:HD11	1.23	1.00
23:BB:1454:C:H5'	35:BN:63:ARG:HH21	1.24	1.00
23:BB:442:G:H1'	27:BE:44:ARG:HD2	1.38	1.00
23:BB:692:C:H5'	25:BC:42:ARG:HB2	1.40	1.00
16:AQ:76:ARG:HE	16:AQ:78:VAL:HG22	1.27	1.00
11:AL:8:ARG:HG3	11:AL:9:LYS:H	1.24	1.00
5:CF:3:HIS:HB3	5:CF:92:THR:HA	1.41	1.00
23:DB:136:G:H2'	23:DB:137:U:C6	1.97	0.99
25:DC:107:LYS:HE3	25:DC:108:GLY:H	1.23	0.99
20:AB:67:LEU:HD11	20:AB:157:PRO:HB3	1.44	0.99
26:DD:197:THR:HG23	26:DD:198:GLY:H	1.28	0.99
46:DZ:55:GLY:HA2	46:DZ:59:ARG:HB2	1.43	0.99
25:DC:230:PRO:HG2	25:DC:245:THR:H	1.27	0.99
3:AD:7:LYS:HE2	3:AD:20:LEU:HD13	1.43	0.99
25:DC:171:VAL:HB	25:DC:182:LYS:HB3	1.45	0.99
1:CA:973:G:H3'	1:CA:974:A:H5''	1.45	0.99
43:DW:13:ARG:HE	43:DW:13:ARG:H	1.08	0.98
25:BC:139:THR:HG22	25:BC:193:GLU:HB3	1.44	0.98
13:AN:60:ARG:HD3	13:AN:60:ARG:H	1.28	0.98
23:DB:2377:A:H61	36:DO:13:ARG:HH21	1.07	0.98
27:DE:169:VAL:HG13	27:DE:170:ARG:H	1.29	0.98
9:AJ:35:GLN:HB3	9:AJ:77:VAL:HG23	1.40	0.98
41:DT:66:LYS:H	41:DT:76:ARG:HH21	1.11	0.98
23:DB:858:G:N3	23:DB:2268:A:H2'	1.78	0.98
39:BR:78:ARG:HB3	39:BR:87:GLN:HA	1.45	0.97
25:DC:48:ILE:HG22	25:DC:49:THR:H	1.26	0.97
51:D4:11:CYS:HB2	51:D4:14:CYS:HB2	1.46	0.97
23:BB:2266:A:H4'	23:BB:2267:A:N7	1.80	0.97
50:D3:49:VAL:HG22	50:D3:50:SER:H	1.28	0.97
33:BL:29:LYS:HD2	33:BL:31:GLY:H	1.27	0.97

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:6:LYS:HA	40:BS:104:THR:HA	1.46	0.97
23:BB:396:G:H4'	46:BZ:28:VAL:HG21	1.46	0.97
23:BB:2478:A:H5'	51:B4:32:LYS:HD2	1.47	0.97
45:BY:10:ARG:HE	45:BY:31:ILE:HG13	1.27	0.97
25:BC:53:ILE:HD13	25:BC:218:THR:HG23	1.45	0.97
23:DB:1099:G:C8	52:DI:3:LYS:N	2.32	0.97
46:BZ:3:LYS:HB2	46:BZ:51:VAL:HG21	1.45	0.97
46:BZ:33:ASN:HB2	46:BZ:44:PHE:HB2	1.44	0.97
39:DR:63:VAL:HG22	39:DR:64:VAL:H	1.28	0.97
32:BK:26:GLY:HA3	32:BK:30:ARG:HE	1.29	0.97
23:BB:482:A:H5''	42:BU:43:LYS:HE3	1.47	0.97
40:DS:46:LEU:HA	40:DS:49:LYS:HB2	1.45	0.97
41:DT:48:GLN:HA	41:DT:53:VAL:HG22	1.46	0.97
23:BB:528:A:N1	23:BB:2042:A:H2'	1.80	0.97
23:BB:1450:G:H21	23:BB:1452:G:H1	1.12	0.97
32:BK:71:ARG:CB	32:BK:72:PRO:HD2	1.95	0.96
22:BA:75:G:H1'	24:BV:29:ILE:HD13	1.44	0.96
26:BD:170:VAL:HG13	26:BD:171:THR:H	1.29	0.96
23:BB:858:G:H21	23:BB:2268:A:H3'	1.31	0.96
8:AI:29:ILE:HG22	8:AI:64:ILE:HB	1.47	0.96
31:DJ:35:ARG:HH12	31:DJ:40:HIS:H	0.98	0.96
45:DY:18:LYS:HD2	45:DY:18:LYS:H	1.28	0.96
38:DQ:53:LYS:HE2	38:DQ:53:LYS:H	1.30	0.96
31:DJ:124:VAL:HG23	31:DJ:125:TYR:H	1.27	0.96
28:BF:36:ASN:HB2	28:BF:87:LYS:HA	1.47	0.96
1:CA:1320:C:H5''	18:CS:2:ARG:HD3	1.47	0.96
35:BN:113:ILE:HG22	35:BN:114:GLU:H	1.30	0.96
31:BJ:81:ILE:HG13	31:BJ:82:GLY:H	1.26	0.96
51:D4:3:VAL:HG12	51:D4:4:ARG:H	1.30	0.96
21:CU:17:ARG:H	21:CU:17:ARG:HD2	1.29	0.96
25:BC:28:PRO:HD2	25:BC:79:ARG:HH21	1.27	0.96
1:CA:1003:G:H21	1:CA:1005:A:H5'	1.27	0.96
39:BR:74:ILE:HA	39:BR:90:ARG:HE	1.27	0.96
37:DP:25:VAL:HG11	37:DP:87:ARG:HA	1.47	0.96
23:BB:858:G:N3	23:BB:2268:A:H2'	1.81	0.96
42:DU:66:VAL:HG22	42:DU:67:SER:H	1.29	0.96
1:CA:1151:A:HO2'	1:CA:1152:A:H8	1.12	0.96
34:DM:5:LYS:HE3	34:DM:6:ARG:N	1.80	0.96
10:CK:78:ILE:HD13	10:CK:78:ILE:H	1.28	0.96
5:CF:29:ILE:HD13	5:CF:64:VAL:HG11	1.48	0.95
38:BQ:92:LYS:HG2	38:BQ:93:ILE:H	1.29	0.95

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DZ:54:GLY:H	46:DZ:57:VAL:HG23	1.31	0.95
13:AN:63:CYS:HB3	13:AN:67:GLY:H	1.30	0.95
31:DJ:40:HIS:HB2	38:DQ:69:ARG:HH22	1.29	0.95
20:CB:156:LEU:HD11	20:CB:178:LEU:HD13	1.47	0.95
25:BC:28:PRO:HD2	25:BC:79:ARG:NH2	1.82	0.95
23:DB:1368:G:H5''	49:D2:25:LYS:HG2	1.46	0.95
23:BB:1392:A:H62	41:BT:18:GLU:HG2	1.30	0.95
41:BT:88:LYS:HG2	41:BT:89:GLU:H	1.30	0.95
23:BB:2576:G:P	26:BD:149:ASN:HB2	2.07	0.95
19:AT:68:LYS:HG3	19:AT:69:ASN:H	1.29	0.95
31:DJ:84:ILE:HD12	31:DJ:85:LYS:H	1.31	0.95
27:DE:127:GLU:HA	27:DE:157:LEU:HD13	1.49	0.95
18:AS:49:ALA:HB1	18:AS:56:HIS:HB3	1.49	0.94
5:AF:53:LYS:HD3	5:AF:54:LEU:H	1.30	0.94
12:AM:48:SER:H	12:AM:51:GLN:HB2	1.33	0.94
1:CA:437:U:H2'	1:CA:438:U:O4'	1.67	0.94
46:DZ:30:HIS:HB2	46:DZ:48:GLN:HG2	1.48	0.94
23:DB:2377:A:H61	36:DO:13:ARG:NH2	1.64	0.94
40:BS:71:VAL:HG22	40:BS:107:VAL:HG12	1.45	0.94
44:BX:24:GLU:HA	44:BX:28:LEU:HB2	1.47	0.94
1:AA:764:C:H3'	1:AA:765:G:H21	1.33	0.94
39:DR:65:ALA:HB3	39:DR:99:THR:HG23	1.48	0.94
8:CI:118:ARG:HH21	8:CI:122:ARG:HE	1.13	0.94
43:BW:35:ILE:HG23	43:BW:36:ILE:H	1.32	0.94
27:BE:116:ASP:HB2	27:BE:185:LYS:HA	1.50	0.94
38:BQ:93:ILE:HG23	38:BQ:94:LEU:HD13	1.50	0.94
27:BE:47:LYS:HD3	27:BE:47:LYS:H	1.30	0.94
23:DB:918:A:H2'	23:DB:919:U:H5'	1.46	0.94
3:CD:167:PRO:HG2	3:CD:170:LEU:HD11	1.48	0.94
46:BZ:36:VAL:HA	46:BZ:42:PRO:HB3	1.45	0.94
51:B4:12:ARG:HD2	51:B4:12:ARG:H	1.32	0.94
21:AU:3:ILE:HA	21:AU:19:LYS:HG2	1.50	0.94
34:DM:57:VAL:HG12	34:DM:58:LYS:H	1.30	0.94
10:CK:19:VAL:HG22	10:CK:34:THR:HG22	1.49	0.94
37:DP:47:ILE:HG23	37:DP:63:ILE:HA	1.46	0.94
28:BF:133:GLU:HG2	28:BF:147:ARG:HG2	1.49	0.94
1:AA:437:U:H2'	1:AA:438:U:O4'	1.67	0.94
23:DB:972:A:H3'	23:DB:973:A:H5''	1.48	0.93
24:BV:4:ILE:HB	24:BV:63:ILE:HA	1.49	0.93
31:DJ:41:LYS:HZ1	38:DQ:63:ARG:HD2	1.33	0.93
23:DB:1199:U:H2'	23:DB:1200:C:H6	1.31	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:77:ARG:HH21	26:DD:79:LEU:HB2	1.30	0.93
1:AA:1313:U:H5''	18:AS:5:LYS:HG2	1.49	0.93
23:DB:1450:G:H21	23:DB:1452:G:H1	1.12	0.93
30:DH:125:THR:HA	30:DH:146:VAL:HB	1.51	0.93
13:CN:50:LEU:H	13:CN:51:PRO:HD2	1.33	0.93
23:DB:142:A:H2'	23:DB:143:C:C6	2.03	0.93
41:BT:54:GLU:H	41:BT:91:GLN:HE22	1.15	0.93
28:DF:28:PRO:HB2	28:DF:168:LEU:HD12	1.48	0.93
44:BX:28:LEU:HB3	44:BX:34:SER:HA	1.49	0.93
1:CA:264:C:H4'	16:CQ:64:ARG:HD2	1.49	0.93
37:DP:26:GLU:HA	37:DP:47:ILE:H	1.33	0.93
12:AM:78:ARG:HH21	12:AM:79:LEU:HG	1.33	0.93
23:DB:2574:G:H21	26:DD:147:GLY:HA3	1.31	0.93
23:DB:2304:G:H4'	28:DF:129:MET:HA	1.48	0.93
38:BQ:33:VAL:HG13	38:BQ:34:ALA:H	1.31	0.93
28:DF:32:LYS:HB3	28:DF:91:ARG:HB3	1.48	0.93
10:AK:22:ILE:HG21	10:AK:95:THR:HG21	1.51	0.93
33:DL:85:VAL:HG13	33:DL:86:GLU:H	1.33	0.93
14:AO:6:ALA:HA	14:AO:9:LYS:HE3	1.50	0.93
37:DP:100:ARG:HH11	37:DP:100:ARG:HB3	1.32	0.93
23:BB:37:C:H2'	27:BE:46:GLN:CG	1.99	0.93
33:BL:14:LYS:NZ	33:BL:14:LYS:HA	1.82	0.93
26:BD:16:THR:HG23	26:BD:17:GLU:H	1.33	0.93
33:BL:94:THR:HG23	33:BL:95:LEU:HD12	1.50	0.93
43:DW:35:ILE:HD12	43:DW:35:ILE:H	1.34	0.92
23:BB:919:U:H2'	23:BB:920:A:C8	2.05	0.92
49:B2:42:LEU:HD11	49:B2:44:VAL:HG13	1.48	0.92
41:BT:8:LEU:HB3	44:BX:19:LEU:HD11	1.48	0.92
23:BB:480:A:H4'	42:BU:42:LYS:HG2	1.51	0.92
23:DB:1099:G:P	52:DI:3:LYS:HA	2.09	0.92
46:BZ:25:ARG:HB2	46:BZ:25:ARG:HH11	1.33	0.92
23:DB:2046:G:H5'	47:D0:15:ARG:HD2	1.51	0.92
32:BK:66:LYS:HG2	32:BK:80:ASP:HA	1.49	0.92
27:BE:48:THR:HG22	27:BE:49:ARG:H	1.34	0.92
33:BL:60:ARG:HA	33:BL:60:ARG:HH11	1.31	0.92
48:D1:47:ILE:HG22	48:D1:48:TYR:H	1.34	0.92
23:BB:535:G:H21	38:BQ:52:ARG:HH22	1.13	0.92
22:DA:48:U:H2'	22:DA:49:C:C6	2.03	0.92
23:DB:1024:G:H3'	23:DB:1025:G:H5''	1.50	0.92
21:CU:24:LYS:HD2	21:CU:25:ALA:H	1.34	0.92
28:DF:13:LYS:HA	28:DF:16:MET:HB2	1.51	0.92

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:90:VAL:HG11	33:BL:121:THR:H	1.34	0.92
23:DB:1099:G:H8	52:DI:3:LYS:CA	1.83	0.92
32:BK:70:ARG:HB3	32:BK:76:VAL:HG22	1.50	0.92
41:DT:76:ARG:HH12	41:DT:78:SER:HB2	1.35	0.92
39:BR:47:VAL:HG13	39:BR:49:ILE:H	1.34	0.92
12:CM:52:ILE:HG13	12:CM:56:ARG:HH22	1.33	0.92
27:BE:143:LEU:HG	27:BE:185:LYS:HD2	1.51	0.92
30:BH:134:VAL:HG13	30:BH:135:HIS:H	1.35	0.92
37:DP:27:VAL:HG13	37:DP:47:ILE:HD12	1.49	0.92
27:DE:148:ILE:HA	27:DE:185:LYS:HB3	1.50	0.92
27:DE:142:ALA:H	27:DE:185:LYS:HZ1	1.12	0.92
26:BD:118:PHE:HA	26:BD:164:GLN:HA	1.52	0.92
9:CJ:51:VAL:HG23	13:CN:80:ARG:HB2	1.51	0.92
23:BB:543:G:H2'	23:BB:544:C:H5''	1.51	0.92
1:AA:1086:U:H3	1:AA:1099:G:H22	1.05	0.92
28:BF:168:LEU:HD12	28:BF:169:LEU:H	1.35	0.92
3:CD:58:GLN:HA	3:CD:58:GLN:HE21	1.35	0.92
33:BL:77:ILE:HB	33:BL:110:VAL:HG22	1.51	0.92
1:CA:1367:C:H5''	8:CI:115:VAL:HG23	1.49	0.92
26:BD:126:ASN:O	26:BD:127:PHE:HB2	1.70	0.92
31:BJ:64:VAL:HG11	31:BJ:68:LYS:HD2	1.50	0.91
23:DB:856:G:H4'	43:DW:23:LYS:HD2	1.52	0.91
30:DH:26:ALA:HB2	30:DH:30:LEU:HG	1.49	0.91
23:BB:630:G:H1	33:BL:69:ARG:HH22	1.04	0.91
34:BM:96:ILE:HG23	34:BM:97:GLN:H	1.35	0.91
10:AK:124:LYS:HA	21:AU:34:ARG:HB3	1.49	0.91
40:DS:23:LEU:HB2	47:D0:21:LEU:HD13	1.52	0.91
23:DB:2054:A:H2'	47:D0:4:GLN:HE22	1.35	0.91
1:AA:376:G:H5''	15:AP:5:ARG:HB2	1.52	0.91
21:CU:4:LYS:HB3	21:CU:6:ARG:HH12	1.32	0.91
25:DC:127:ASN:HD22	25:DC:128:THR:H	1.15	0.91
33:BL:55:MET:HG2	33:BL:56:PRO:HD3	1.52	0.91
23:DB:27:G:H22	23:DB:512:G:H2'	1.35	0.91
23:BB:1639:C:H2'	23:BB:1640:A:H5''	1.52	0.91
20:AB:9:LEU:HD22	20:AB:11:ALA:H	1.33	0.91
31:BJ:45:THR:HB	38:BQ:63:ARG:HH22	1.35	0.91
36:DO:40:ILE:HD13	36:DO:40:ILE:H	1.35	0.91
41:DT:55:VAL:HG22	41:DT:56:GLU:H	1.33	0.91
38:BQ:91:ARG:H	39:BR:10:LYS:HZ2	0.93	0.91
10:AK:86:LYS:HG3	10:AK:113:THR:HA	1.53	0.91
23:BB:1453:A:N6	35:BN:74:GLU:HG2	1.85	0.91

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:360:U:H2'	23:DB:361:G:O4'	1.70	0.91
27:DE:4:VAL:HG13	27:DE:5:LEU:H	1.36	0.91
23:BB:670:A:H3'	33:BL:47:ARG:HH11	1.32	0.91
10:CK:20:ALA:HB3	10:CK:83:VAL:HA	1.53	0.91
30:BH:5:LEU:H	30:BH:5:LEU:HD22	1.35	0.91
40:DS:29:VAL:HG22	40:DS:71:VAL:HG23	1.50	0.91
50:D3:12:ARG:HB3	50:D3:23:HIS:HB2	1.52	0.91
2:CC:59:PRO:HG2	2:CC:62:SER:HB2	1.49	0.91
1:CA:764:C:H3'	1:CA:765:G:H21	1.33	0.91
31:DJ:81:ILE:HG23	31:DJ:82:GLY:H	1.34	0.91
50:B3:12:ARG:HB3	50:B3:23:HIS:HA	1.53	0.91
36:DO:66:GLY:H	36:DO:70:ALA:HB2	1.34	0.91
37:DP:47:ILE:HG12	37:DP:63:ILE:HG23	1.52	0.90
6:AG:125:ASP:HB3	6:AG:130:LYS:HB3	1.53	0.90
26:DD:29:VAL:HG22	26:DD:30:GLU:H	1.36	0.90
26:BD:115:GLY:HA2	26:BD:165:MET:HG3	1.53	0.90
51:D4:18:LYS:HE2	51:D4:19:ARG:N	1.86	0.90
32:DK:78:ARG:HH22	37:DP:62:LYS:HZ2	1.16	0.90
49:B2:44:VAL:HG23	49:B2:45:SER:H	1.37	0.90
27:BE:60:TRP:HE1	27:BE:73:ILE:HD11	1.34	0.90
21:AU:13:VAL:HG13	21:AU:14:ALA:H	1.35	0.90
23:DB:1060:U:N3	23:DB:1088:A:N7	2.20	0.90
23:BB:691:C:O2'	25:BC:42:ARG:HD2	1.70	0.90
23:BB:811:U:H2'	33:BL:31:GLY:HA3	1.53	0.90
38:BQ:5:ARG:HB2	38:BQ:5:ARG:HH11	1.34	0.90
25:BC:30:ALA:H	25:BC:31:PRO:HD3	1.36	0.90
25:DC:224:MET:HA	25:DC:233:GLY:H	1.36	0.90
25:BC:143:VAL:HG12	25:BC:144:GLU:H	1.35	0.90
1:CA:719:C:H1'	17:CR:37:LYS:HB2	1.52	0.90
2:AC:156:LEU:H	2:AC:156:LEU:HD12	1.33	0.90
23:DB:2645:G:H3'	23:DB:2646:C:H5'	1.54	0.90
1:CA:451:A:H5'	15:CP:70:ARG:HH22	1.35	0.90
28:DF:140:ILE:HD12	28:DF:140:ILE:H	1.37	0.90
37:BP:50:ARG:HH11	37:BP:50:ARG:HB2	1.33	0.90
18:CS:29:PRO:HA	18:CS:47:THR:HB	1.54	0.90
20:CB:15:PHE:HA	20:CB:42:LEU:HD21	1.51	0.90
27:DE:149:ILE:HD13	27:DE:186:VAL:HG13	1.54	0.90
50:B3:24:LYS:HA	50:B3:45:PRO:HB3	1.54	0.90
50:D3:32:LEU:HD13	50:D3:33:THR:H	1.35	0.90
41:DT:31:VAL:HG13	41:DT:32:LEU:H	1.37	0.90
32:BK:103:VAL:HB	32:BK:107:LEU:HD23	1.54	0.90

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:3:GLN:N	34:BM:4:PRO:HD2	1.82	0.89
31:DJ:98:GLU:HB3	31:DJ:124:VAL:HB	1.51	0.89
23:BB:1283:G:H22	23:BB:1286:A:H5'	1.36	0.89
1:AA:1211:U:H4'	1:AA:1213:A:H1'	1.54	0.89
20:AB:202:ASN:HD22	20:AB:204:ASP:H	1.20	0.89
5:CF:38:ARG:HH11	5:CF:98:GLU:H	1.18	0.89
40:BS:27:LYS:H	40:BS:27:LYS:HD2	1.33	0.89
31:DJ:58:ASN:O	31:DJ:126:ALA:HA	1.71	0.89
34:BM:70:ASP:N	34:BM:71:LYS:HZ2	1.69	0.89
23:BB:2575:C:H4'	26:BD:148:GLN:HA	1.54	0.89
45:BY:9:THR:HA	45:BY:55:LYS:HE2	1.53	0.89
31:BJ:78:THR:H	31:BJ:84:ILE:HG21	1.35	0.89
7:AH:103:VAL:HG12	7:AH:124:ILE:HA	1.53	0.89
44:DX:18:LEU:HD22	44:DX:18:LEU:H	1.36	0.89
23:BB:855:G:N2	43:BW:23:LYS:HD2	1.86	0.89
23:BB:2645:G:H3'	23:BB:2646:C:H5'	1.54	0.89
41:BT:58:VAL:HG13	41:BT:85:VAL:HG12	1.51	0.89
52:BI:27:LEU:HD23	52:BI:27:LEU:H	1.37	0.89
23:BB:45:G:H5'	23:BB:46:G:H5'	1.53	0.89
23:DB:161:A:H3'	23:DB:162:U:H5''	1.53	0.89
24:DV:25:LYS:HE2	24:DV:41:GLU:HB2	1.54	0.89
26:BD:2:ILE:HG21	26:BD:204:LYS:HA	1.52	0.89
34:DM:18:ARG:HD3	34:DM:18:ARG:H	1.36	0.89
5:CF:6:ILE:HG23	5:CF:62:MET:HB3	1.52	0.89
46:BZ:5:ILE:HD12	46:BZ:5:ILE:H	1.37	0.89
25:DC:50:THR:HG22	25:DC:51:ARG:HG3	1.52	0.89
25:BC:229:HIS:NE2	25:BC:244:VAL:HG22	1.88	0.89
33:BL:77:ILE:HD13	33:BL:92:LEU:HD13	1.52	0.89
30:DH:86:ASP:HB2	30:DH:89:LYS:HD3	1.55	0.89
23:DB:1283:G:H22	23:DB:1286:A:H5'	1.36	0.89
1:CA:699:C:C2'	1:CA:700:G:H5''	2.02	0.89
34:BM:33:LEU:HD22	34:BM:124:LEU:HG	1.54	0.89
33:BL:30:THR:HB	33:BL:36:LYS:HB2	1.55	0.89
23:DB:2156:G:H2'	23:DB:2157:G:H4'	1.53	0.89
23:DB:2839:G:H4'	35:DN:49:GLU:HG2	1.55	0.89
23:BB:1060:U:N3	23:BB:1088:A:N7	2.20	0.89
5:CF:3:HIS:HA	5:CF:65:GLU:HG3	1.54	0.89
23:DB:919:U:H2'	23:DB:920:A:C8	2.07	0.89
50:B3:15:LYS:HG2	50:B3:19:GLY:HA2	1.55	0.89
23:DB:1639:C:H2'	23:DB:1640:A:H5''	1.52	0.89
13:CN:26:LEU:HG	13:CN:44:VAL:HG22	1.55	0.89

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:27:VAL:HA	37:DP:86:LYS:HE2	1.53	0.88
23:BB:654:A:H2'	23:BB:655:A:H5''	1.55	0.88
43:BW:48:ALA:HA	43:BW:54:ARG:H	1.38	0.88
33:BL:118:THR:HG23	33:BL:119:PRO:HD3	1.53	0.88
32:BK:99:ILE:HG12	32:BK:115:ILE:HG13	1.52	0.88
23:BB:2641:G:H5''	31:BJ:78:THR:HG21	1.53	0.88
23:BB:535:G:H21	38:BQ:52:ARG:NH2	1.70	0.88
11:CL:23:LEU:HD22	11:CL:58:ASN:HD22	1.38	0.88
1:AA:699:C:C2'	1:AA:700:G:H5''	2.02	0.88
42:BU:12:VAL:HA	42:BU:68:ASN:HD21	1.38	0.88
30:BH:21:VAL:HG22	30:BH:22:LYS:H	1.38	0.88
34:DM:41:LEU:HD22	34:DM:95:LEU:HD13	1.53	0.88
23:DB:2751:G:H5'	29:DG:3:VAL:HG21	1.53	0.88
23:BB:1021:A:H62	23:BB:1141:U:H3	1.18	0.88
33:DL:51:GLU:HG2	33:DL:52:GLY:N	1.88	0.88
11:AL:48:LEU:HD23	11:AL:48:LEU:H	1.34	0.88
26:BD:70:LYS:HA	26:BD:70:LYS:HE3	1.54	0.88
50:B3:12:ARG:NH1	50:B3:12:ARG:HB2	1.87	0.88
25:BC:67:LYS:HG3	25:BC:68:ARG:H	1.37	0.88
35:DN:5:LYS:HA	35:DN:5:LYS:HE2	1.55	0.88
1:AA:74:A:C2'	1:AA:75:G:H5''	2.04	0.88
28:DF:128:SER:HB3	28:DF:154:THR:HG23	1.56	0.88
23:BB:1141:U:H4'	23:BB:1142:A:O4'	1.74	0.88
33:BL:64:PHE:H	50:B3:24:LYS:HD2	1.36	0.88
26:BD:34:VAL:HA	26:BD:89:GLU:HB2	1.53	0.88
34:DM:29:GLY:H	34:DM:102:LEU:HD12	1.38	0.88
44:DX:43:LEU:HB2	44:DX:45:GLN:NE2	1.89	0.88
20:AB:67:LEU:HD12	20:AB:153:MET:HE2	1.54	0.88
33:DL:126:ARG:O	33:DL:127:VAL:HG22	1.74	0.88
35:BN:76:VAL:HA	35:BN:79:LEU:HD12	1.56	0.88
23:DB:929:U:H4'	45:DY:2:LYS:HE3	1.54	0.88
33:BL:79:LEU:HB3	33:BL:114:GLY:H	1.35	0.88
37:DP:32:VAL:HA	37:DP:42:PHE:HB3	1.55	0.88
30:BH:4:ILE:H	30:BH:37:VAL:HB	1.39	0.88
23:BB:396:G:H5'	46:BZ:9:TYR:HB2	1.54	0.88
34:BM:38:ARG:NH1	34:BM:38:ARG:HB2	1.89	0.88
26:BD:5:VAL:HG11	26:BD:28:GLU:HA	1.54	0.88
13:CN:30:ILE:HG21	13:CN:43:ALA:HB3	1.55	0.88
39:BR:37:GLU:HG2	39:BR:62:GLU:H	1.38	0.88
23:DB:1141:U:H4'	23:DB:1142:A:O4'	1.74	0.88
45:BY:15:ARG:HB3	45:BY:18:LYS:HE3	1.56	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1409:C:N4	1:AA:1491:G:H1	1.72	0.87
32:DK:108:ARG:HA	32:DK:116:ILE:HD13	1.56	0.87
37:BP:47:ILE:HG22	37:BP:48:ALA:H	1.37	0.87
39:DR:89:HIS:O	39:DR:90:ARG:HG3	1.74	0.87
39:DR:39:LEU:H	39:DR:61:ALA:HB1	1.39	0.87
23:DB:654:A:H2'	23:DB:655:A:H5''	1.54	0.87
43:BW:28:GLU:H	43:BW:61:LYS:HB2	1.37	0.87
27:DE:49:ARG:HG3	27:DE:52:VAL:HG22	1.56	0.87
38:BQ:91:ARG:H	39:BR:10:LYS:NZ	1.73	0.87
41:BT:5:GLU:HG2	41:BT:6:ARG:H	1.40	0.87
33:DL:124:GLY:H	33:DL:142:ILE:HA	1.37	0.87
5:AF:38:ARG:HB3	5:AF:63:ASN:HB2	1.55	0.87
26:DD:69:ALA:HB1	26:DD:92:VAL:HG13	1.56	0.87
2:AC:146:LYS:HD3	2:AC:204:GLY:HA2	1.56	0.87
23:DB:2032:G:N3	26:DD:150:GLN:HG2	1.90	0.87
23:BB:2147:A:H5'	23:BB:2148:G:H5'	1.55	0.87
42:BU:84:PHE:HB3	42:BU:92:VAL:HG22	1.57	0.87
27:DE:116:ASP:HB3	27:DE:185:LYS:HA	1.56	0.87
26:DD:96:ILE:HG22	26:DD:98:VAL:H	1.35	0.87
43:BW:19:ARG:HH22	43:BW:71:LYS:HD3	1.38	0.87
1:CA:1306:A:N6	1:CA:1331:G:H1'	1.89	0.87
29:BG:29:ASN:HB2	29:BG:78:VAL:HA	1.57	0.87
23:DB:1199:U:H2'	23:DB:1200:C:C6	2.09	0.87
4:CE:19:ARG:HG2	4:CE:20:VAL:H	1.39	0.87
42:BU:40:LEU:HD13	42:BU:41:VAL:N	1.88	0.87
40:BS:34:ASP:H	40:BS:37:THR:HG22	1.40	0.87
1:CA:1250:A:H4'	8:CI:69:GLY:H	1.38	0.87
42:BU:23:LYS:HG3	42:BU:24:VAL:HG23	1.55	0.87
43:DW:47:GLY:HA2	43:DW:71:LYS:HB3	1.57	0.87
23:BB:2052:A:H4'	26:BD:148:GLN:N	1.90	0.87
23:DB:1813:G:N3	25:DC:50:THR:HG21	1.89	0.87
37:DP:76:HIS:CD2	37:DP:76:HIS:H	1.89	0.87
23:BB:2354:C:H4'	43:BW:30:VAL:HG22	1.57	0.87
31:DJ:64:VAL:HG12	31:DJ:65:THR:H	1.37	0.87
23:BB:547:A:H3'	23:BB:548:G:H8	1.40	0.86
21:CU:34:ARG:HG2	21:CU:35:GLU:H	1.39	0.86
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.09	0.86
31:BJ:100:VAL:HG13	31:BJ:101:ILE:HG22	1.53	0.86
7:AH:113:ARG:HH21	7:AH:114:ALA:HA	1.39	0.86
21:AU:36:PHE:HB3	21:AU:40:PRO:HD3	1.57	0.86
51:D4:26:ILE:HG23	51:D4:27:CYS:H	1.40	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:152:PRO:HB2	26:DD:154:LYS:HE2	1.58	0.86
5:AF:64:VAL:HG12	5:AF:65:GLU:H	1.40	0.86
42:BU:43:LYS:HA	42:BU:57:ILE:HA	1.57	0.86
45:DY:2:LYS:HB2	45:DY:37:ARG:HB2	1.56	0.86
3:CD:25:ARG:HB2	3:CD:25:ARG:HH11	1.40	0.86
10:CK:88:PRO:HD3	21:CU:28:LEU:HD13	1.56	0.86
8:CI:51:LEU:HB3	8:CI:56:MET:HG2	1.58	0.86
23:DB:1099:G:O4'	52:DI:3:LYS:C	2.14	0.86
25:BC:124:LYS:HB2	25:BC:125:PRO:CD	2.05	0.86
23:BB:479:A:O2'	23:BB:481:G:H5'	1.75	0.86
3:CD:63:ILE:HG23	3:CD:64:TYR:HD1	1.40	0.86
18:CS:10:ILE:HG22	18:CS:37:SER:HB2	1.57	0.86
48:B1:46:VAL:HG13	48:B1:47:ILE:HG12	1.54	0.86
1:AA:1422:G:H5'	32:BK:48:PRO:HB3	1.58	0.86
11:CL:43:LYS:HB3	11:CL:44:PRO:CD	2.06	0.86
26:BD:130:GLN:NE2	26:BD:138:LEU:HD12	1.91	0.86
2:AC:141:MET:HE1	2:AC:147:GLY:H	1.39	0.86
23:BB:703:U:H2'	23:BB:704:G:O4'	1.76	0.86
6:AG:21:LEU:H	6:AG:21:LEU:HD23	1.41	0.86
23:DB:1098:A:H2'	52:DI:4:VAL:N	1.90	0.86
36:BO:49:VAL:HG22	36:BO:50:ALA:H	1.38	0.86
38:DQ:97:ILE:HD12	39:DR:13:ARG:HD2	1.58	0.86
42:DU:60:LYS:HE3	42:DU:61:GLU:N	1.91	0.86
33:DL:115:GLU:O	33:DL:116:VAL:HG22	1.76	0.86
7:CH:105:THR:HA	7:CH:122:GLY:HA3	1.57	0.86
46:BZ:8:LYS:HD2	46:BZ:9:TYR:N	1.91	0.86
31:BJ:3:THR:HG21	38:BQ:93:ILE:HG13	1.56	0.86
11:AL:35:ARG:NH2	11:AL:75:GLU:HB3	1.89	0.86
20:CB:104:LYS:HB2	20:CB:104:LYS:HZ2	1.41	0.86
15:AP:51:ARG:HB3	15:AP:51:ARG:NH1	1.91	0.86
39:BR:41:ILE:O	39:BR:54:VAL:HG13	1.74	0.85
25:DC:51:ARG:HH12	25:DC:54:GLY:HA3	1.40	0.85
25:BC:19:VAL:HG12	25:BC:20:ASN:H	1.38	0.85
46:BZ:13:THR:HG23	46:BZ:25:ARG:HB3	1.56	0.85
23:BB:135:U:H2'	23:BB:136:G:C8	2.11	0.85
11:CL:98:ARG:HG3	11:CL:105:GLY:HA2	1.56	0.85
33:DL:118:THR:O	33:DL:120:VAL:HG23	1.75	0.85
9:CJ:6:ILE:HD11	9:CJ:79:PRO:HB3	1.58	0.85
26:BD:22:ILE:N	26:BD:23:PRO:HD3	1.92	0.85
43:DW:38:ARG:NH2	43:DW:40:ARG:HD3	1.91	0.85
35:BN:44:LEU:HD23	35:BN:113:ILE:HG13	1.56	0.85

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:31:ALA:HA	26:DD:51:THR:HA	1.58	0.85
25:DC:220:ARG:CZ	25:DC:220:ARG:HA	2.07	0.85
52:DI:27:LEU:HD23	52:DI:27:LEU:H	1.37	0.85
20:CB:116:LEU:HD22	20:CB:140:LEU:HD21	1.59	0.85
25:BC:74:PRO:HB2	25:BC:96:LYS:HG3	1.57	0.85
23:BB:2052:A:C4'	26:BD:148:GLN:H	1.88	0.85
26:DD:204:LYS:HB3	26:DD:205:PRO:HD2	1.57	0.85
32:DK:70:ARG:HD3	32:DK:76:VAL:HG22	1.59	0.85
37:DP:38:ARG:HG3	37:DP:39:LEU:H	1.39	0.85
19:CT:68:LYS:HA	19:CT:68:LYS:HE2	1.57	0.85
23:DB:1149:G:H2'	23:DB:1150:C:C6	2.12	0.85
4:CE:89:THR:HG22	4:CE:91:SER:H	1.41	0.85
33:BL:29:LYS:HD2	33:BL:30:THR:H	1.42	0.85
20:CB:101:THR:HA	20:CB:178:LEU:HD21	1.58	0.85
26:DD:32:ASN:HB3	26:DD:91:THR:HA	1.58	0.85
34:DM:62:LYS:H	34:DM:104:GLU:HB3	1.41	0.85
1:CA:1296:C:H4'	1:CA:1302:C:N4	1.91	0.85
15:CP:28:ARG:HD3	15:CP:29:ASN:H	1.41	0.85
37:DP:25:VAL:HG22	37:DP:89:GLY:H	1.40	0.85
1:AA:664:G:H22	1:AA:741:G:H1	1.23	0.85
23:DB:2502:G:H5'	23:DB:2503:A:H5''	1.57	0.85
20:AB:163:ILE:HG23	20:AB:164:ASP:N	1.92	0.85
1:CA:1008:U:H5''	13:CN:23:ARG:HH21	1.41	0.85
34:BM:7:THR:HG22	34:BM:8:LYS:H	1.41	0.85
9:AJ:35:GLN:HB2	9:AJ:78:GLU:HB2	1.57	0.85
1:CA:1306:A:H61	1:CA:1331:G:H1'	1.40	0.85
33:DL:39:LYS:HA	33:DL:39:LYS:HZ2	1.40	0.85
2:CC:69:THR:HG22	2:CC:71:ARG:H	1.38	0.85
28:DF:107:VAL:HG12	28:DF:108:PRO:HD3	1.57	0.85
19:AT:30:PHE:HB3	19:AT:53:MET:HB3	1.59	0.85
31:BJ:101:ILE:HG23	31:BJ:102:GLU:H	1.42	0.85
31:DJ:35:ARG:NH1	31:DJ:40:HIS:H	1.75	0.85
6:AG:112:ASP:HB2	6:AG:118:ARG:HG2	1.58	0.85
27:DE:3:LEU:HD22	27:DE:119:ILE:HD11	1.57	0.85
14:CO:69:LEU:HD11	14:CO:76:ARG:HB3	1.57	0.85
26:DD:14:ILE:HD12	37:DP:78:PRO:HG2	1.59	0.84
43:DW:67:LYS:HG2	43:DW:71:LYS:HB2	1.59	0.84
33:BL:77:ILE:HG13	33:BL:108:ALA:HB1	1.59	0.84
39:DR:47:VAL:HG22	39:DR:48:LYS:H	1.40	0.84
1:CA:9:G:H5'	4:CE:107:GLY:HA3	1.55	0.84
6:AG:97:ALA:HA	6:AG:100:MET:HE3	1.59	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:664:G:H22	1:CA:741:G:H1	1.23	0.84
29:BG:15:ASP:HB3	29:BG:26:LYS:HB2	1.58	0.84
3:CD:28:ASP:HB3	3:CD:33:ILE:HD12	1.58	0.84
34:BM:70:ASP:H	34:BM:71:LYS:HZ2	1.23	0.84
10:AK:126:ARG:HB2	21:AU:33:ARG:HD2	1.59	0.84
1:CA:840:C:H2'	1:CA:842:U:H5''	1.60	0.84
23:BB:662:G:H4'	33:BL:24:GLY:N	1.92	0.84
20:CB:16:GLY:HA3	20:CB:39:ILE:HA	1.59	0.84
12:AM:33:LEU:HD22	12:AM:38:ILE:HB	1.59	0.84
26:DD:122:VAL:HA	26:DD:128:ARG:HG3	1.59	0.84
15:CP:67:ILE:HG13	15:CP:71:VAL:HG13	1.59	0.84
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.75	0.84
36:BO:16:ARG:HE	36:BO:16:ARG:HA	1.42	0.84
42:BU:3:LYS:NZ	42:BU:3:LYS:HB2	1.90	0.84
23:BB:2306:C:H42	28:BF:38:GLY:H	1.24	0.84
26:BD:38:LYS:HG2	26:BD:39:ASP:H	1.42	0.84
1:AA:74:A:H2'	1:AA:75:G:H5''	1.58	0.84
15:CP:44:SER:HB3	15:CP:46:LYS:HG2	1.60	0.84
23:DB:443:A:OP1	27:DE:40:ARG:HA	1.76	0.84
23:BB:2502:G:H5'	23:BB:2503:A:H5''	1.57	0.84
21:CU:39:LYS:H	21:CU:40:PRO:HD2	1.43	0.84
11:CL:68:GLY:HA3	11:CL:106:VAL:HG21	1.59	0.84
27:BE:128:ALA:CB	27:BE:129:PRO:HD3	2.07	0.84
23:DB:1021:A:H61	23:DB:1142:A:N6	1.73	0.84
1:AA:840:C:H2'	1:AA:842:U:H5''	1.59	0.84
1:CA:781:A:H2'	1:CA:782:A:H5'	1.60	0.84
6:AG:3:ARG:NH1	6:AG:3:ARG:HB3	1.92	0.84
12:AM:15:VAL:HG23	12:AM:33:LEU:HD12	1.60	0.84
44:DX:18:LEU:HA	44:DX:22:LEU:HD12	1.58	0.84
46:DZ:24:ILE:HD13	46:DZ:24:ILE:H	1.41	0.84
27:DE:47:LYS:HE3	27:DE:52:VAL:HG23	1.60	0.84
37:BP:59:THR:HG23	37:BP:76:HIS:CD2	2.12	0.84
30:DH:37:VAL:H	30:DH:38:PRO:HD2	1.43	0.84
31:DJ:135:GLN:HE22	31:DJ:137:PRO:HB2	1.43	0.84
14:AO:25:GLU:HG3	14:AO:80:LEU:HD12	1.59	0.84
23:BB:2619:C:H5'	26:BD:157:LYS:HE2	1.59	0.84
35:BN:101:GLY:HA2	35:BN:109:PRO:HA	1.58	0.84
38:BQ:30:VAL:HG12	38:BQ:32:ARG:H	1.43	0.84
38:BQ:92:LYS:CG	38:BQ:93:ILE:H	1.90	0.84
10:AK:86:LYS:HB2	10:AK:112:VAL:HG23	1.59	0.84
11:CL:84:GLY:H	11:CL:94:TYR:HA	1.42	0.84

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:155:ARG:HE	25:BC:157:ALA:HB3	1.41	0.84
33:BL:116:VAL:HG12	33:BL:117:THR:H	1.42	0.84
23:BB:2024:G:H4'	26:BD:154:LYS:HD3	1.60	0.84
23:DB:1799:G:N7	25:DC:178:GLY:HA3	1.92	0.84
1:CA:1422:G:H5''	32:DK:48:PRO:HB3	1.57	0.84
28:BF:66:ILE:HG22	28:BF:83:PRO:HB2	1.59	0.84
3:AD:84:ASN:HD22	3:AD:87:GLU:H	1.26	0.84
30:BH:130:VAL:HB	30:BH:142:VAL:HB	1.60	0.83
30:DH:10:ALA:O	30:DH:11:ASN:HB3	1.78	0.83
24:BV:80:HIS:CD2	24:BV:83:LYS:H	1.94	0.83
2:CC:179:ALA:HA	2:CC:205:GLU:HA	1.59	0.83
1:CA:108:G:O6	19:CT:9:ARG:HG2	1.78	0.83
1:AA:33:A:H1'	11:AL:27:PRO:HG3	1.59	0.83
1:AA:1330:U:H2'	1:AA:1331:G:H5'	1.59	0.83
16:AQ:67:SER:HB2	16:AQ:70:LYS:HB3	1.60	0.83
12:AM:3:ILE:HA	12:AM:56:ARG:HG2	1.60	0.83
8:CI:54:VAL:HG11	8:CI:86:LEU:HD13	1.58	0.83
10:CK:113:THR:HG21	21:CU:28:LEU:HD11	1.59	0.83
35:BN:19:ALA:HA	35:BN:22:ARG:HG2	1.58	0.83
25:BC:136:VAL:HG12	25:BC:165:ALA:HA	1.60	0.83
30:DH:31:VAL:HB	30:DH:32:PRO:HD3	1.60	0.83
23:DB:2314:A:H1'	28:DF:154:THR:HG21	1.60	0.83
37:DP:52:ARG:HB3	37:DP:60:VAL:HG11	1.60	0.83
20:AB:33:ALA:HA	20:AB:38:HIS:HA	1.60	0.83
28:DF:70:ARG:HA	28:DF:80:GLN:HE21	1.42	0.83
20:CB:113:LEU:HD12	20:CB:143:LEU:HD22	1.60	0.83
32:BK:108:ARG:NH2	37:BP:36:LYS:HG3	1.92	0.83
38:DQ:73:ILE:HG13	38:DQ:74:SER:H	1.43	0.83
34:DM:5:LYS:HE3	34:DM:6:ARG:H	1.43	0.83
12:CM:38:ILE:HG13	12:CM:55:LEU:HD21	1.60	0.83
40:DS:25:ARG:HD2	40:DS:26:GLY:N	1.94	0.83
23:BB:775:G:H4'	23:BB:776:G:H5'	1.59	0.83
13:AN:30:ILE:HD12	13:AN:30:ILE:H	1.43	0.83
23:DB:996:A:H5''	38:DQ:93:ILE:HG21	1.58	0.83
25:BC:42:ARG:HG2	25:BC:43:ASN:N	1.89	0.83
31:DJ:84:ILE:HD12	31:DJ:85:LYS:N	1.92	0.83
1:AA:1005:A:H2'	1:AA:1006:G:O4'	1.78	0.83
4:CE:157:GLY:H	7:CH:43:GLY:HA3	1.41	0.83
13:CN:96:LYS:HG2	13:CN:97:LYS:H	1.44	0.83
23:BB:2297:A:N6	23:BB:2319:G:H3'	1.93	0.83
1:AA:781:A:H2'	1:AA:782:A:H5'	1.60	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1024:G:H3'	23:BB:1025:G:H5''	1.59	0.83
39:DR:66:HIS:HA	39:DR:98:ILE:HD13	1.57	0.83
44:BX:35:GLY:HA3	44:BX:40:SER:HA	1.60	0.83
20:CB:100:LEU:HB3	20:CB:178:LEU:HD11	1.61	0.83
23:BB:445:C:H5'	27:BE:47:LYS:HZ3	1.41	0.83
7:AH:5:PRO:HB2	7:AH:32:LYS:NZ	1.92	0.83
33:BL:84:LYS:HA	33:BL:84:LYS:NZ	1.93	0.83
40:DS:23:LEU:HD13	40:DS:25:ARG:HH22	1.44	0.83
23:DB:162:U:O2'	23:DB:163:C:H5'	1.79	0.83
23:BB:1060:U:C2	23:BB:1088:A:N7	2.47	0.83
4:CE:36:THR:HG21	4:CE:63:MET:HG2	1.61	0.83
42:DU:9:GLU:HB2	42:DU:71:ILE:HB	1.60	0.83
3:AD:160:LEU:H	3:AD:160:LEU:HD13	1.44	0.83
23:DB:2309:A:H3'	23:DB:2310:C:H5''	1.60	0.83
1:AA:967:C:H3'	1:AA:968:A:H5'	1.59	0.83
23:DB:2143:C:H2'	23:DB:2144:G:O4'	1.77	0.83
1:AA:1320:C:H42	18:AS:35:ARG:HD3	1.43	0.83
29:BG:27:GLY:HA3	29:BG:78:VAL:HB	1.60	0.83
23:DB:775:G:H4'	23:DB:776:G:H5'	1.59	0.83
15:CP:3:THR:HG22	15:CP:66:THR:HB	1.61	0.83
18:CS:32:THR:HG22	18:CS:33:TRP:H	1.43	0.83
34:BM:82:MET:HB2	34:BM:84:LYS:NZ	1.94	0.83
23:BB:2845:U:O3'	37:BP:54:LEU:HG	1.78	0.83
41:DT:47:VAL:HG22	41:DT:53:VAL:HG21	1.61	0.83
19:CT:61:ALA:HA	19:CT:67:HIS:H	1.44	0.83
40:BS:90:LYS:HZ2	40:BS:90:LYS:N	1.76	0.83
44:BX:14:LEU:HD21	44:BX:57:LEU:HB2	1.61	0.83
23:DB:136:G:C2	41:DT:3:ARG:CZ	2.62	0.82
23:DB:1060:U:C2	23:DB:1088:A:N7	2.47	0.82
23:BB:1913:A:H1'	23:BB:1914:C:OP1	1.79	0.82
44:BX:38:GLN:H	44:BX:38:GLN:NE2	1.75	0.82
7:CH:11:THR:HG22	7:CH:14:ARG:HH12	1.44	0.82
23:BB:37:C:H2'	27:BE:46:GLN:CD	1.99	0.82
35:DN:41:ALA:HB1	35:DN:113:ILE:HD11	1.61	0.82
18:CS:15:LEU:HA	18:CS:18:VAL:HG12	1.60	0.82
23:DB:90:U:H3'	23:DB:91:A:H5''	1.59	0.82
9:AJ:8:ILE:HD12	9:AJ:100:ILE:HG22	1.61	0.82
35:DN:37:THR:HG22	35:DN:39:PRO:HD2	1.59	0.82
23:BB:630:G:H1	33:BL:69:ARG:NH2	1.77	0.82
45:BY:9:THR:HB	45:BY:54:VAL:HA	1.58	0.82
35:DN:85:PRO:HA	35:DN:88:ALA:HB2	1.62	0.82

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DA:30:C:H2'	22:DA:31:C:H5'	1.60	0.82
25:BC:138:SER:HA	25:BC:162:GLN:HG2	1.61	0.82
23:DB:7:G:H5'	31:DJ:134:ALA:O	1.80	0.82
23:BB:997:G:OP1	38:BQ:92:LYS:HD2	1.79	0.82
43:DW:3:LYS:HA	43:DW:3:LYS:NZ	1.94	0.82
45:BY:6:ILE:HG22	45:BY:56:VAL:HG23	1.62	0.82
5:CF:99:ALA:HA	17:CR:23:LYS:HE2	1.62	0.82
28:DF:64:PRO:HA	28:DF:88:VAL:HG22	1.61	0.82
23:DB:2574:G:H21	26:DD:147:GLY:CA	1.92	0.82
23:DB:1060:U:H5	52:DI:131:THR:HG22	1.43	0.82
12:AM:64:VAL:HA	12:AM:68:LEU:HD12	1.61	0.82
23:DB:742:A:H2'	23:DB:743:A:H8	1.43	0.82
2:AC:78:LYS:HG2	2:AC:81:GLU:HB2	1.58	0.82
23:DB:2334:U:H3	43:DW:74:LYS:HE2	1.44	0.82
36:DO:56:LYS:HE2	36:DO:81:ARG:NE	1.94	0.82
27:DE:142:ALA:H	27:DE:185:LYS:NZ	1.78	0.82
27:BE:88:ARG:HH11	27:BE:88:ARG:HB2	1.45	0.82
43:BW:27:GLY:HA2	43:BW:60:ALA:HA	1.60	0.82
23:BB:742:A:H2'	23:BB:743:A:H8	1.43	0.82
23:BB:1639:C:C2'	23:BB:1640:A:H5''	2.09	0.82
42:DU:13:LEU:H	42:DU:13:LEU:HD12	1.45	0.82
52:DI:72:THR:HG21	52:DI:112:LYS:HA	1.62	0.82
23:DB:2336:A:H1'	23:DB:2337:G:OP1	1.79	0.82
52:BI:55:PRO:HD3	52:BI:74:PRO:HD3	1.60	0.82
23:BB:287:G:H2'	23:BB:288:U:C6	2.15	0.82
30:BH:128:HIS:HB3	30:BH:144:VAL:HB	1.61	0.82
42:BU:7:ASP:H	42:BU:24:VAL:HA	1.45	0.82
42:BU:25:LYS:HG3	42:BU:35:VAL:HA	1.62	0.82
33:BL:29:LYS:HD2	33:BL:31:GLY:N	1.95	0.82
10:CK:16:SER:HA	10:CK:78:ILE:HA	1.61	0.82
10:AK:83:VAL:HG23	10:AK:109:ILE:HA	1.60	0.82
17:AR:52:ARG:HH11	17:AR:52:ARG:HB3	1.45	0.82
6:CG:129:ASN:HB3	6:CG:134:VAL:HG21	1.61	0.82
52:DI:105:LEU:HD13	52:DI:129:GLU:HG2	1.61	0.82
33:BL:109:LYS:HA	33:BL:126:ARG:HA	1.62	0.82
23:BB:2297:A:H61	23:BB:2319:G:C3'	1.93	0.82
15:AP:12:LYS:HD2	15:AP:13:LYS:HE2	1.61	0.82
30:DH:114:GLU:HB2	30:DH:133:GLN:HG3	1.60	0.82
45:BY:7:THR:HA	45:BY:34:THR:HA	1.61	0.82
23:DB:2633:G:H1'	26:DD:62:LYS:HG3	1.61	0.81
23:BB:2336:A:H1'	23:BB:2337:G:OP1	1.80	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:20:ARG:HA	21:AU:24:LYS:HG3	1.59	0.81
23:DB:1639:C:C2'	23:DB:1640:A:H5''	2.09	0.81
28:DF:96:TRP:O	28:DF:100:GLU:HG3	1.78	0.81
36:BO:17:LYS:HE2	43:BW:77:LYS:HD2	1.61	0.81
18:AS:4:LEU:HD13	18:AS:9:PHE:H	1.45	0.81
30:DH:122:LEU:HD13	30:DH:146:VAL:HG22	1.60	0.81
32:BK:35:VAL:HG23	32:BK:36:GLY:H	1.44	0.81
42:DU:91:LYS:HD3	42:DU:93:ARG:HE	1.45	0.81
37:DP:28:LYS:HD3	37:DP:44:GLY:HA3	1.63	0.81
36:BO:64:TYR:HE1	36:BO:74:VAL:HG11	1.46	0.81
23:DB:857:G:C2'	23:DB:858:G:H5'	2.10	0.81
23:BB:340:A:H2'	23:BB:341:C:O4'	1.81	0.81
8:AI:40:ARG:H	8:AI:44:ARG:HE	1.26	0.81
30:BH:66:ASN:HA	30:BH:138:VAL:HG21	1.61	0.81
29:DG:171:LYS:HD3	29:DG:172:GLU:O	1.79	0.81
33:DL:103:ILE:HG13	33:DL:104:GLN:H	1.45	0.81
36:BO:87:ILE:HG13	36:BO:88:LYS:H	1.43	0.81
8:AI:112:ARG:HB2	8:AI:112:ARG:NH1	1.95	0.81
23:DB:1064:C:H4'	52:DI:90:GLY:HA2	1.60	0.81
31:DJ:25:LEU:HD11	31:DJ:63:ALA:H	1.45	0.81
39:DR:22:LEU:HD12	39:DR:24:LYS:H	1.43	0.81
23:BB:279:A:N6	23:BB:361:G:H1'	1.96	0.81
23:DB:899:A:H3'	23:DB:900:A:H8	1.45	0.81
3:AD:36:ALA:HA	3:AD:41:GLY:HA3	1.62	0.81
28:BF:126:ASN:HD22	28:BF:126:ASN:N	1.78	0.81
23:BB:200:U:H5''	46:BZ:20:ASN:HB3	1.62	0.81
42:BU:28:LEU:HB2	42:BU:31:GLY:HA3	1.61	0.81
43:DW:60:ALA:HB3	43:DW:80:SER:HA	1.63	0.81
38:DQ:87:VAL:HB	39:DR:54:VAL:HG21	1.62	0.81
1:CA:1086:U:H3	1:CA:1099:G:H22	1.25	0.81
36:BO:8:ILE:HG22	36:BO:10:ARG:HG2	1.63	0.81
20:CB:163:ILE:HG23	20:CB:164:ASP:H	1.46	0.81
37:BP:47:ILE:HG22	37:BP:49:ILE:H	1.45	0.81
25:BC:163:ILE:HG22	25:BC:164:VAL:H	1.44	0.81
25:DC:172:THR:O	25:DC:173:LEU:HB2	1.81	0.81
31:BJ:100:VAL:HG22	31:BJ:101:ILE:H	1.45	0.81
43:BW:42:THR:HB	43:BW:65:LYS:HA	1.60	0.81
40:BS:71:VAL:HA	40:BS:106:VAL:O	1.80	0.81
37:BP:92:ARG:NH2	37:BP:110:LYS:HE2	1.95	0.81
23:DB:589:U:H4'	27:DE:87:ALA:HB2	1.61	0.81
23:DB:2511:U:H5''	26:DD:129:THR:HG23	1.62	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:56:LEU:HD11	11:AL:81:ILE:HD12	1.61	0.81
38:BQ:7:VAL:HG23	38:BQ:8:ILE:H	1.43	0.81
23:BB:1177:G:H2'	23:BB:1178:C:C6	2.16	0.81
3:AD:194:ILE:HD13	3:AD:195:ASN:N	1.96	0.81
46:BZ:26:SER:O	46:BZ:28:VAL:HG13	1.81	0.81
12:AM:11:HIS:H	12:AM:44:ILE:HD11	1.44	0.81
8:CI:45:MET:O	8:CI:49:GLN:HG3	1.80	0.81
52:DI:105:LEU:HD11	52:DI:139:VAL:HG21	1.62	0.81
16:AQ:27:PHE:HB3	16:AQ:36:PHE:HB3	1.63	0.81
23:DB:250:G:H5'	50:D3:7:ARG:HG2	1.61	0.81
3:CD:162:GLU:HG3	3:CD:163:GLN:HG3	1.63	0.81
23:DB:458:G:N2	23:DB:469:G:H2'	1.95	0.81
25:DC:140:VAL:HA	25:DC:191:LEU:HA	1.62	0.81
38:BQ:73:ILE:HG23	38:BQ:77:LYS:HB2	1.62	0.81
23:DB:717:C:H3'	23:DB:718:A:H5''	1.61	0.81
19:CT:45:ALA:HA	19:CT:48:LYS:HB3	1.63	0.81
1:AA:238:A:H2'	1:AA:239:U:H5''	1.61	0.81
31:BJ:16:TYR:HB2	31:BJ:54:ILE:HG22	1.63	0.81
18:AS:5:LYS:N	18:AS:5:LYS:HE3	1.96	0.81
27:DE:6:LYS:HD3	27:DE:7:ASP:H	1.46	0.81
50:D3:7:ARG:NH1	50:D3:7:ARG:HA	1.95	0.81
32:BK:64:ARG:H	32:BK:83:ALA:HB3	1.44	0.81
37:BP:25:VAL:HG13	37:BP:87:ARG:HA	1.61	0.80
16:AQ:20:ILE:HG13	16:AQ:45:VAL:HB	1.61	0.80
46:DZ:59:ARG:HB3	46:DZ:63:ARG:HB2	1.61	0.80
41:DT:34:VAL:HG21	41:DT:43:ILE:HD12	1.62	0.80
1:CA:1238:A:H5'	1:CA:1336:C:H41	1.45	0.80
23:BB:580:U:O3'	38:BQ:30:VAL:HG13	1.80	0.80
23:DB:2377:A:N6	36:DO:13:ARG:HH21	1.78	0.80
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.44	0.80
49:D2:35:ARG:HH22	49:D2:44:VAL:HG22	1.46	0.80
35:BN:96:ARG:HH21	35:BN:118:ARG:HB3	1.46	0.80
38:BQ:16:ILE:HD12	38:BQ:17:LEU:N	1.96	0.80
39:BR:75:VAL:H	39:BR:90:ARG:NE	1.79	0.80
33:DL:124:GLY:N	33:DL:142:ILE:HA	1.95	0.80
26:BD:120:GLY:H	26:BD:123:LYS:HG3	1.43	0.80
38:DQ:87:VAL:HG12	38:DQ:89:ILE:HD13	1.62	0.80
25:BC:22:GLU:HA	25:BC:202:ARG:CZ	2.11	0.80
2:AC:87:ARG:HG3	2:AC:100:ILE:HG22	1.63	0.80
23:BB:265:A:O2'	23:BB:266:G:H4'	1.81	0.80
47:D0:27:LEU:H	47:D0:27:LEU:HD22	1.45	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:1:MET:HG2	36:BO:3:LYS:H	1.45	0.80
37:DP:50:ARG:NH1	37:DP:50:ARG:HB2	1.97	0.80
33:DL:7:SER:CB	33:DL:8:PRO:HD3	2.07	0.80
25:BC:194:VAL:HG12	25:BC:195:GLY:H	1.45	0.80
23:BB:1568:G:OP1	25:BC:61:TYR:HB2	1.82	0.80
23:BB:704:G:H2'	23:BB:726:G:H22	1.45	0.80
32:DK:2:ILE:HD13	32:DK:6:THR:HG21	1.61	0.80
23:DB:354:A:H2'	23:DB:355:U:C6	2.17	0.80
29:BG:153:PRO:HG2	29:BG:162:ARG:HB3	1.63	0.80
30:DH:115:VAL:HG22	30:DH:117:LEU:H	1.45	0.80
1:CA:238:A:H2'	1:CA:239:U:H5''	1.61	0.80
31:BJ:71:ASP:CG	31:BJ:72:LYS:H	1.85	0.80
39:DR:64:VAL:HG22	39:DR:65:ALA:H	1.46	0.80
8:AI:35:GLU:HA	8:AI:39:GLY:HA3	1.64	0.80
31:BJ:35:ARG:HE	31:BJ:39:LYS:HB3	1.46	0.80
3:AD:84:ASN:ND2	3:AD:87:GLU:H	1.79	0.80
23:BB:1178:C:H2'	23:BB:1179:G:C8	2.16	0.80
29:DG:40:VAL:HG22	29:DG:51:PHE:HE2	1.44	0.80
32:DK:78:ARG:HH22	37:DP:62:LYS:NZ	1.80	0.80
43:BW:36:ILE:HD12	43:BW:69:GLU:OE2	1.82	0.80
2:AC:176:THR:HB	2:AC:179:ALA:HB2	1.63	0.80
1:CA:1451:U:H5''	1:CA:1452:C:OP2	1.81	0.80
3:AD:94:GLU:HG3	3:AD:103:ARG:HH12	1.46	0.80
37:DP:69:VAL:HG13	37:DP:70:GLU:H	1.45	0.80
23:DB:1007:C:H5''	31:DJ:37:ARG:HH12	1.47	0.80
1:AA:1201:A:H1'	1:AA:1202:U:OP2	1.81	0.80
26:DD:37:VAL:HG13	26:DD:42:ASN:HB3	1.63	0.80
31:BJ:25:LEU:HD12	31:BJ:62:VAL:HA	1.63	0.80
39:BR:4:VAL:HA	39:BR:12:HIS:HB3	1.63	0.80
41:BT:12:ARG:HH21	44:BX:29:ARG:HH12	1.27	0.80
23:BB:144:A:H2'	23:BB:145:C:H6	1.47	0.80
33:DL:135:ILE:HG22	33:DL:138:ALA:HB3	1.63	0.80
6:CG:112:ASP:HB2	6:CG:118:ARG:HG2	1.62	0.80
1:AA:1026:G:H2'	1:AA:1027:C:H6	1.47	0.80
28:DF:98:PHE:HA	28:DF:101:ARG:HE	1.45	0.80
31:DJ:121:LYS:N	31:DJ:121:LYS:HE3	1.97	0.80
30:DH:31:VAL:HA	30:DH:36:ALA:HA	1.63	0.80
39:BR:6:GLN:HA	39:BR:10:LYS:HA	1.64	0.80
31:DJ:25:LEU:HG	31:DJ:64:VAL:H	1.47	0.80
4:CE:36:THR:HG22	4:CE:37:VAL:H	1.46	0.80
39:BR:58:VAL:HG13	39:BR:59:ILE:HG12	1.61	0.80

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	2.16	0.80
27:DE:120:VAL:HG12	27:DE:121:VAL:H	1.45	0.80
52:BI:106:GLN:O	52:BI:110:GLN:HG3	1.81	0.80
23:DB:1099:G:H5''	52:DI:2:LYS:C	2.01	0.80
37:DP:64:SER:HA	37:DP:71:ARG:HB2	1.62	0.80
23:BB:100:U:H4'	42:BU:90:LYS:CE	2.12	0.80
25:BC:88:ALA:HB1	25:BC:156:SER:HB3	1.64	0.80
33:BL:60:ARG:HA	50:B3:11:LYS:HE2	1.63	0.80
40:BS:50:VAL:HG11	40:BS:103:ILE:HG21	1.62	0.80
26:DD:109:VAL:HG11	26:DD:193:VAL:HG12	1.64	0.80
33:DL:109:LYS:HG2	33:DL:126:ARG:HD3	1.63	0.80
21:CU:14:ALA:HB3	21:CU:16:ARG:NH1	1.97	0.80
1:AA:1326:U:H2'	1:AA:1327:C:H6	1.47	0.80
10:CK:70:ALA:HB1	10:CK:74:LYS:HD2	1.64	0.80
32:BK:88:ASN:ND2	32:BK:91:SER:HB2	1.97	0.80
23:DB:1098:A:H3'	52:DI:3:LYS:CB	2.11	0.79
23:BB:692:C:C5'	25:BC:42:ARG:HB2	2.12	0.79
31:BJ:25:LEU:HG	31:BJ:64:VAL:H	1.47	0.79
31:BJ:72:LYS:HB2	31:BJ:90:GLU:HB2	1.61	0.79
38:DQ:69:ARG:HB3	38:DQ:69:ARG:HH11	1.47	0.79
23:BB:1131:G:H1'	23:BB:1133:A:H62	1.47	0.79
41:BT:1:MET:SD	41:BT:2:ILE:HG12	2.21	0.79
23:BB:279:A:C2	23:BB:362:A:H4'	2.17	0.79
7:CH:55:LYS:HA	7:CH:55:LYS:HZ2	1.45	0.79
45:DY:10:ARG:HA	45:DY:31:ILE:HD12	1.64	0.79
48:D1:12:SER:HA	48:D1:50:GLU:HA	1.63	0.79
37:DP:25:VAL:HG13	37:DP:88:ARG:H	1.46	0.79
23:BB:162:U:H4'	23:BB:163:C:OP1	1.82	0.79
33:BL:84:LYS:HA	33:BL:84:LYS:HZ2	1.45	0.79
39:BR:41:ILE:HD12	39:BR:41:ILE:O	1.83	0.79
27:BE:153:LEU:HD13	27:BE:193:VAL:HG21	1.65	0.79
52:DI:21:PRO:HB2	52:DI:22:PRO:HD3	1.64	0.79
4:CE:33:THR:HG22	4:CE:51:LYS:HG2	1.64	0.79
8:AI:110:VAL:HG12	8:AI:111:GLU:H	1.45	0.79
23:DB:85:G:H5'	42:DU:28:LEU:HB3	1.61	0.79
34:BM:42:THR:HA	34:BM:92:TRP:CD1	2.16	0.79
26:BD:4:LEU:HD13	26:BD:79:LEU:HD11	1.65	0.79
37:BP:2:ASN:H	37:BP:2:ASN:HD22	1.30	0.79
30:BH:83:LYS:HB3	30:BH:91:PHE:HD1	1.43	0.79
2:CC:18:ASN:HA	2:CC:55:VAL:HG12	1.65	0.79
41:BT:12:ARG:HH21	44:BX:29:ARG:NH1	1.80	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:81:ASP:HA	33:DL:84:LYS:HD3	1.64	0.79
28:DF:140:ILE:HG22	28:DF:142:TYR:H	1.47	0.79
23:DB:1176:U:H2'	23:DB:1177:G:C8	2.17	0.79
1:CA:60:A:H2'	19:CT:4:LYS:HE3	1.64	0.79
47:D0:53:VAL:HG13	47:D0:54:ILE:HG13	1.65	0.79
23:DB:320:A:H4'	23:DB:322:A:N7	1.97	0.79
23:BB:972:A:H3'	23:BB:973:A:H5''	1.63	0.79
41:BT:8:LEU:HA	44:BX:19:LEU:HD21	1.64	0.79
30:DH:114:GLU:HB3	30:DH:133:GLN:HE21	1.47	0.79
23:DB:1006:C:H5''	31:DJ:34:ARG:HE	1.48	0.79
28:DF:133:GLU:N	28:DF:150:GLY:HA2	1.98	0.79
2:CC:120:THR:HG23	2:CC:188:ALA:HB2	1.63	0.79
23:BB:1813:G:H21	25:BC:51:ARG:HG2	1.46	0.79
25:BC:50:THR:HG22	25:BC:51:ARG:HG3	1.65	0.79
41:DT:56:GLU:O	41:DT:57:VAL:HG22	1.82	0.79
1:CA:1003:G:N2	1:CA:1005:A:H5'	1.97	0.79
22:DA:48:U:H2'	22:DA:49:C:H6	1.44	0.79
13:CN:63:CYS:HB3	13:CN:68:ARG:H	1.47	0.79
23:BB:1197:G:H2'	23:BB:1198:U:C6	2.18	0.79
4:CE:158:LYS:HB3	7:CH:63:LYS:HD3	1.65	0.79
20:CB:202:ASN:ND2	20:CB:203:ASP:H	1.79	0.79
1:CA:1311:A:H62	18:CS:1:PRO:HD3	1.48	0.79
25:DC:63:ILE:HG21	25:DC:90:ILE:HD11	1.64	0.79
30:BH:3:VAL:HB	30:BH:37:VAL:HB	1.64	0.79
24:DV:70:ILE:HD12	24:DV:71:LYS:H	1.47	0.79
27:DE:53:THR:HB	27:DE:74:LYS:HG2	1.63	0.79
45:DY:45:GLY:HA2	45:DY:48:ASN:HD22	1.46	0.79
8:CI:17:ARG:HB3	8:CI:65:THR:HB	1.65	0.79
33:DL:44:GLY:HA2	33:DL:47:ARG:HE	1.46	0.79
6:CG:23:ALA:O	6:CG:26:VAL:HG22	1.82	0.79
23:BB:37:C:H2'	27:BE:46:GLN:HG2	1.63	0.79
26:BD:11:MET:HG2	26:BD:12:THR:H	1.45	0.79
25:BC:128:THR:HA	25:BC:190:THR:HA	1.62	0.79
33:BL:61:LEU:CB	33:BL:62:PRO:HD2	2.12	0.79
34:DM:4:PRO:HD2	34:DM:43:ALA:HB1	1.65	0.79
27:BE:118:LEU:HD23	27:BE:118:LEU:H	1.45	0.79
13:CN:50:LEU:H	13:CN:51:PRO:CD	1.95	0.79
28:DF:35:LEU:HB3	28:DF:151:LEU:HD11	1.64	0.79
52:DI:11:GLN:HG2	52:DI:55:PRO:HB3	1.64	0.79
44:DX:4:LYS:O	44:DX:7:ARG:HG2	1.82	0.79
22:BA:49:C:H2'	22:BA:50:A:H8	1.48	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CQ:66:LEU:H	16:CQ:66:LEU:HD12	1.47	0.79
23:BB:3:U:HO2'	23:BB:4:U:H6	1.29	0.79
25:BC:3:VAL:HG12	25:BC:4:LYS:H	1.48	0.79
34:BM:41:LEU:HB2	34:BM:93:VAL:HG22	1.64	0.79
16:AQ:10:ARG:CZ	16:AQ:11:VAL:H	1.95	0.79
33:BL:27:LEU:HD12	33:BL:27:LEU:H	1.47	0.79
52:BI:27:LEU:HD12	52:BI:32:VAL:HG11	1.64	0.79
2:CC:137:VAL:HA	2:CC:148:ILE:HD13	1.63	0.79
9:AJ:40:ILE:HG13	9:AJ:73:LEU:HB3	1.65	0.79
5:CF:47:LEU:HD13	5:CF:51:ILE:HG22	1.62	0.79
1:AA:17:U:H2'	1:AA:18:C:C6	2.18	0.79
33:DL:4:ASN:O	33:DL:6:LEU:HD22	1.82	0.79
23:DB:1099:G:H5''	52:DI:3:LYS:N	1.98	0.79
27:BE:113:VAL:HG23	27:BE:117:ARG:CZ	2.13	0.79
51:B4:2:LYS:HG2	51:B4:36:ARG:HB3	1.64	0.79
35:DN:8:ARG:HD2	35:DN:46:ARG:NE	1.98	0.79
23:DB:2800:A:H2'	23:DB:2801:G:O4'	1.83	0.79
9:AJ:88:MET:HB2	9:AJ:89:ARG:HH12	1.47	0.79
30:DH:68:ARG:HE	30:DH:71:LYS:HE2	1.47	0.79
46:DZ:66:ILE:HB	46:DZ:67:PRO:HD3	1.64	0.79
29:DG:120:ILE:HG12	29:DG:134:GLY:HA3	1.65	0.79
1:CA:946:A:H2'	1:CA:947:G:C8	2.18	0.79
34:BM:126:ILE:HG13	34:BM:127:LYS:H	1.47	0.79
46:BZ:44:PHE:HD1	46:BZ:44:PHE:H	1.30	0.78
23:DB:1802:A:H4'	25:DC:255:LYS:HE2	1.63	0.78
1:AA:436:C:O2'	1:AA:437:U:H5'	1.83	0.78
43:BW:28:GLU:HB3	43:BW:30:VAL:HG23	1.65	0.78
23:BB:86:G:OP1	42:BU:29:SER:HB2	1.83	0.78
6:AG:4:ARG:HE	6:AG:5:VAL:H	1.30	0.78
37:DP:30:TRP:HB2	37:DP:83:ILE:HB	1.64	0.78
25:BC:140:VAL:O	25:BC:193:GLU:HB2	1.82	0.78
43:BW:66:VAL:HG13	43:BW:67:LYS:H	1.47	0.78
26:BD:37:VAL:HG22	26:BD:46:ARG:HE	1.48	0.78
23:DB:2309:A:H5'	23:DB:2310:C:OP2	1.83	0.78
37:BP:108:ARG:H	37:BP:108:ARG:HD2	1.48	0.78
42:BU:35:VAL:HG12	42:BU:36:GLU:H	1.47	0.78
33:BL:60:ARG:HD2	50:B3:7:ARG:NE	1.98	0.78
23:DB:922:C:H1'	43:DW:22:VAL:HG21	1.66	0.78
30:BH:68:ARG:HG3	30:BH:134:VAL:HG11	1.65	0.78
23:BB:2511:U:H4'	26:BD:128:ARG:CZ	2.13	0.78
39:DR:40:MET:HG2	39:DR:54:VAL:HG13	1.65	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2216:G:H2'	23:BB:2217:G:H8	1.47	0.78
13:AN:65:GLN:HB2	13:AN:78:LEU:HD22	1.63	0.78
23:DB:1080:A:H2'	23:DB:1081:U:H6	1.45	0.78
23:BB:2800:A:H2'	23:BB:2801:G:O4'	1.84	0.78
23:BB:222:A:H61	23:BB:232:G:H1'	1.45	0.78
43:DW:66:VAL:HG13	43:DW:67:LYS:H	1.47	0.78
35:DN:48:VAL:HA	35:DN:51:LEU:HD12	1.66	0.78
36:BO:37:ALA:O	36:BO:38:GLN:HG2	1.84	0.78
34:BM:67:VAL:HB	34:BM:100:LYS:HG2	1.63	0.78
10:AK:92:ARG:HH11	10:AK:92:ARG:HB3	1.48	0.78
13:CN:40:ARG:HH12	18:CS:5:LYS:HB2	1.48	0.78
1:AA:562:U:H1'	11:AL:11:ARG:HB3	1.65	0.78
23:BB:597:G:H4'	33:BL:21:ARG:HE	1.48	0.78
1:AA:79:G:H2'	1:AA:80:A:C8	2.19	0.78
52:DI:45:THR:HA	52:DI:48:ILE:HG22	1.64	0.78
48:B1:12:SER:HA	48:B1:50:GLU:HB3	1.64	0.78
27:DE:137:LYS:HA	27:DE:137:LYS:NZ	1.98	0.78
23:BB:328:U:H4'	42:BU:65:GLN:HG3	1.65	0.78
37:DP:29:VAL:HG21	37:DP:61:ARG:HH22	1.48	0.78
45:BY:16:LEU:HB2	45:BY:17:PRO:CD	2.14	0.78
26:DD:89:GLU:HG2	26:DD:93:GLY:HA3	1.64	0.78
23:DB:365:U:H2'	23:DB:366:C:C6	2.18	0.78
26:DD:170:VAL:HB	26:DD:194:PRO:HG2	1.66	0.78
3:AD:123:MET:HA	3:AD:128:VAL:HA	1.65	0.78
34:BM:108:VAL:HG23	34:BM:112:LEU:HD11	1.65	0.78
23:BB:146:A:H2'	23:BB:147:C:C6	2.19	0.78
51:D4:26:ILE:O	51:D4:27:CYS:HB2	1.83	0.78
34:DM:15:GLY:O	34:DM:16:ARG:HG3	1.83	0.78
27:BE:122:GLU:HB3	27:BE:152:GLU:HB2	1.65	0.78
3:AD:159:GLU:HG3	3:AD:160:LEU:N	1.96	0.78
8:CI:18:VAL:HG12	8:CI:64:ILE:HA	1.64	0.78
34:DM:134:THR:HG22	34:DM:135:VAL:H	1.46	0.78
5:CF:4:TYR:HA	5:CF:91:ARG:HA	1.64	0.78
3:AD:118:SER:HA	3:AD:130:ASN:HB2	1.65	0.78
37:DP:25:VAL:HG12	37:DP:27:VAL:H	1.47	0.78
43:BW:32:ALA:O	43:BW:66:VAL:HG11	1.84	0.78
30:BH:37:VAL:N	30:BH:38:PRO:HD2	1.95	0.78
34:BM:40:ARG:HH11	34:BM:92:TRP:HE3	1.29	0.78
13:AN:60:ARG:HE	13:AN:62:ARG:NE	1.82	0.78
23:BB:483:A:H5'	42:BU:43:LYS:HE2	1.66	0.78
45:DY:18:LYS:HD2	45:DY:18:LYS:N	1.99	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CK:82:GLU:HB3	10:CK:108:ASN:HD22	1.48	0.78
23:BB:1283:G:N2	23:BB:1286:A:H5'	1.98	0.78
24:DV:9:ARG:HG2	24:DV:41:GLU:HG2	1.66	0.78
29:BG:173:ALA:C	29:BG:174:LYS:HD2	2.03	0.78
21:CU:41:THR:HA	21:CU:45:LYS:HD3	1.65	0.78
52:BI:25:PRO:O	52:BI:29:GLN:HG2	1.84	0.78
23:DB:2811:G:H5'	26:DD:62:LYS:HZ1	1.46	0.78
23:BB:2674:G:H4'	32:BK:30:ARG:HG2	1.66	0.78
42:BU:39:ASN:ND2	42:BU:42:LYS:HE2	1.99	0.78
31:DJ:41:LYS:NZ	38:DQ:63:ARG:HD2	1.99	0.78
23:DB:2511:U:H5''	26:DD:129:THR:CG2	2.14	0.78
25:BC:21:PRO:HG2	25:BC:202:ARG:HH11	1.48	0.78
28:DF:134:GLN:HB3	28:DF:136:ILE:HG13	1.65	0.78
35:DN:86:ARG:HB3	35:DN:86:ARG:HH11	1.47	0.78
9:CJ:40:ILE:HD11	9:CJ:73:LEU:HD12	1.65	0.78
23:BB:414:C:H2'	23:BB:415:A:H8	1.49	0.78
23:DB:947:A:HO2'	23:DB:984:A:H2	1.30	0.78
23:BB:2867:G:H2'	23:BB:2867:G:N3	1.98	0.78
31:BJ:81:ILE:HG13	31:BJ:82:GLY:N	1.99	0.78
5:CF:62:MET:HG3	5:CF:64:VAL:HG23	1.66	0.78
5:AF:53:LYS:HA	5:AF:53:LYS:HZ3	1.49	0.78
1:CA:436:C:O2'	1:CA:437:U:H5'	1.83	0.78
45:DY:4:ILE:N	45:DY:36:GLU:HG3	1.99	0.78
1:CA:17:U:H2'	1:CA:18:C:C6	2.19	0.78
12:AM:19:THR:HA	12:AM:24:VAL:HG23	1.65	0.78
50:D3:7:ARG:HA	50:D3:7:ARG:HH11	1.49	0.78
20:AB:36:LYS:HE3	20:AB:36:LYS:N	1.98	0.78
25:BC:127:ASN:ND2	25:BC:128:THR:H	1.82	0.77
25:DC:139:THR:HA	25:DC:193:GLU:CD	2.05	0.77
38:BQ:33:VAL:HG23	38:BQ:37:ALA:HB3	1.66	0.77
34:DM:117:PHE:HB2	34:DM:124:LEU:HD11	1.67	0.77
18:AS:39:ILE:HG21	18:AS:65:MET:HB3	1.63	0.77
1:CA:975:A:O2'	1:CA:1358:U:H1'	1.84	0.77
16:AQ:80:LYS:O	16:AQ:80:LYS:HE3	1.84	0.77
23:BB:663:G:H5''	33:BL:25:SER:HB2	1.64	0.77
26:DD:77:ARG:HB2	26:DD:77:ARG:NH1	1.98	0.77
12:AM:23:GLY:HA3	12:AM:64:VAL:HG13	1.64	0.77
20:AB:58:LYS:HG2	20:AB:62:ARG:HH21	1.50	0.77
37:DP:90:ALA:H	37:DP:112:ARG:HH21	1.32	0.77
37:BP:25:VAL:HG12	37:BP:27:VAL:HG12	1.67	0.77
23:BB:918:A:H2'	23:BB:919:U:H5'	1.66	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BO:38:GLN:HA	36:BO:50:ALA:HB3	1.67	0.77
25:DC:229:HIS:ND1	25:DC:230:PRO:HD2	1.99	0.77
35:BN:116:VAL:HG22	35:BN:117:ASP:H	1.49	0.77
26:DD:8:LYS:HE2	37:DP:5:LYS:HG3	1.67	0.77
29:DG:151:ARG:HH11	29:DG:151:ARG:HB2	1.47	0.77
16:CQ:13:SER:HB3	16:CQ:21:VAL:HB	1.66	0.77
43:BW:43:LYS:HG2	43:BW:76:ARG:HH21	1.49	0.77
18:CS:27:LYS:HG3	18:CS:28:LYS:HD2	1.65	0.77
26:BD:106:LYS:HA	26:BD:176:ASP:HA	1.66	0.77
32:DK:76:VAL:HB	37:DP:74:GLN:HE21	1.50	0.77
28:DF:174:PHE:H	28:DF:175:PRO:HD2	1.49	0.77
27:DE:50:ALA:O	27:DE:74:LYS:HD3	1.83	0.77
10:CK:23:HIS:HB3	10:CK:30:ILE:HG13	1.65	0.77
31:BJ:58:ASN:ND2	31:BJ:128:ASN:HB2	1.99	0.77
31:BJ:61:LYS:HE2	31:BJ:61:LYS:HA	1.64	0.77
34:BM:20:LEU:HD13	34:BM:38:ARG:HG2	1.66	0.77
23:BB:2578:G:H1'	26:BD:145:SER:OG	1.83	0.77
23:DB:1283:G:N2	23:DB:1286:A:H5'	1.98	0.77
13:CN:26:LEU:HA	13:CN:29:ILE:HD12	1.65	0.77
19:CT:69:ASN:H	19:CT:69:ASN:ND2	1.82	0.77
1:AA:430:A:OP1	3:AD:8:LEU:HB2	1.84	0.77
23:DB:2867:G:N3	23:DB:2867:G:H2'	1.98	0.77
23:BB:2576:G:OP2	26:BD:149:ASN:HB2	1.84	0.77
38:BQ:94:LEU:H	38:BQ:94:LEU:HD13	1.49	0.77
51:B4:23:ILE:HG13	51:B4:35:GLN:HB3	1.65	0.77
28:BF:126:ASN:HD22	28:BF:126:ASN:H	1.30	0.77
23:DB:966:G:H5'	23:DB:2272:U:O2	1.84	0.77
30:BH:81:ALA:HA	30:BH:146:VAL:HA	1.66	0.77
34:BM:100:LYS:HE3	34:BM:100:LYS:H	1.49	0.77
52:DI:27:LEU:HD12	52:DI:32:VAL:HG11	1.66	0.77
41:DT:38:ALA:HB1	41:DT:43:ILE:HD11	1.65	0.77
8:AI:11:ARG:HH21	8:AI:12:LYS:HB2	1.49	0.77
39:DR:60:LYS:O	39:DR:60:LYS:HD3	1.85	0.77
26:BD:13:ARG:HA	26:BD:13:ARG:NH1	2.00	0.77
23:DB:2293:G:H5''	36:DO:9:ARG:NH2	1.99	0.77
35:BN:100:CYS:HB3	35:BN:110:MET:HB2	1.66	0.77
45:DY:45:GLY:HA2	45:DY:48:ASN:ND2	2.00	0.77
23:BB:2008:C:H2'	23:BB:2009:A:H8	1.50	0.77
2:AC:58:ARG:HG2	2:AC:63:ILE:HG22	1.67	0.77
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.20	0.77
26:BD:62:LYS:HG2	26:BD:63:PRO:HD3	1.65	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B2:12:ARG:HH21	49:B2:18:PHE:H	1.31	0.77
30:BH:73:ASN:ND2	30:BH:74:ALA:H	1.82	0.77
5:AF:10:VAL:HA	5:AF:84:VAL:HA	1.67	0.77
23:BB:2064:C:H2'	23:BB:2065:C:C6	2.19	0.77
23:BB:441:U:O2'	23:BB:442:G:H5'	1.84	0.77
25:BC:153:LEU:HD23	25:BC:153:LEU:H	1.49	0.77
31:BJ:57:LEU:HB3	31:BJ:128:ASN:HA	1.66	0.77
52:BI:21:PRO:HB2	52:BI:22:PRO:HD3	1.66	0.77
23:BB:2324:U:H5'	23:BB:2325:G:H5''	1.67	0.77
23:DB:51:G:O2'	23:DB:118:A:N6	2.17	0.77
23:DB:458:G:C5'	49:D2:39:ARG:HB2	2.13	0.76
50:B3:48:MET:SD	50:B3:51:LYS:HD3	2.25	0.76
52:DI:25:PRO:O	52:DI:29:GLN:HG3	1.84	0.76
23:DB:2071:A:H2'	23:DB:2072:C:C6	2.20	0.76
23:DB:526:A:N6	23:DB:2626:C:H4'	2.00	0.76
23:DB:1486:U:H2'	23:DB:1487:U:C6	2.21	0.76
1:AA:1461:G:H2'	1:AA:1462:C:C6	2.20	0.76
39:BR:47:VAL:HG22	39:BR:48:LYS:H	1.48	0.76
26:DD:8:LYS:HD3	37:DP:5:LYS:HE3	1.67	0.76
15:AP:51:ARG:HB3	15:AP:51:ARG:HH11	1.48	0.76
23:DB:2886:A:C8	47:D0:27:LEU:HG	2.21	0.76
23:DB:1826:G:OP2	25:DC:221:GLY:HA2	1.86	0.76
31:BJ:7:LYS:HD3	31:BJ:48:VAL:HB	1.67	0.76
11:CL:78:VAL:HG12	11:CL:101:LEU:HD13	1.67	0.76
30:BH:3:VAL:HG22	30:BH:21:VAL:HG11	1.67	0.76
8:CI:118:ARG:HH21	8:CI:122:ARG:NE	1.82	0.76
26:DD:5:VAL:HB	26:DD:27:ILE:O	1.85	0.76
9:CJ:57:VAL:HG22	9:CJ:58:ASN:H	1.49	0.76
20:AB:202:ASN:ND2	20:AB:204:ASP:H	1.83	0.76
37:DP:76:HIS:H	37:DP:76:HIS:HD2	1.30	0.76
24:DV:30:ILE:HG12	24:DV:91:PHE:HB2	1.65	0.76
4:CE:110:MET:SD	4:CE:126:ALA:HB2	2.25	0.76
1:AA:1057:G:H5''	2:AC:153:SER:HB3	1.67	0.76
23:DB:1113:U:H5''	29:DG:2:ARG:CZ	2.16	0.76
1:AA:1123:U:O2'	1:AA:1124:G:H5'	1.85	0.76
25:BC:106:PRO:HD2	25:BC:109:LEU:HD22	1.68	0.76
36:BO:19:GLN:H	43:BW:76:ARG:HH12	1.32	0.76
10:AK:111:ASP:HB2	21:AU:16:ARG:HH22	1.50	0.76
21:AU:17:ARG:HA	21:AU:20:ARG:HB3	1.66	0.76
27:DE:14:VAL:HG12	27:DE:15:SER:H	1.48	0.76
25:BC:224:MET:HA	25:BC:232:GLY:HA2	1.67	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:138:PRO:HA	3:CD:181:PHE:HD2	1.50	0.76
23:DB:2008:C:H2'	23:DB:2009:A:H8	1.51	0.76
23:BB:811:U:C5	33:BL:29:LYS:HD3	2.20	0.76
11:AL:78:VAL:HG12	11:AL:101:LEU:HD23	1.67	0.76
4:CE:98:ALA:HB2	4:CE:123:LEU:HG	1.68	0.76
38:DQ:30:VAL:HG12	38:DQ:31:TYR:N	2.00	0.76
7:AH:30:LYS:HA	7:AH:30:LYS:HZ2	1.49	0.76
11:AL:105:GLY:HA3	11:AL:117:GLY:HA3	1.67	0.76
1:CA:1225:A:H5'	12:CM:101:THR:OG1	1.84	0.76
47:D0:41:HIS:CG	47:D0:42:ILE:H	2.03	0.76
23:BB:1022:G:N7	31:BJ:68:LYS:HE3	2.01	0.76
23:BB:1252:G:H1	38:BQ:36:GLN:NE2	1.83	0.76
23:DB:1368:G:C5'	49:D2:25:LYS:HG2	2.15	0.76
25:BC:77:VAL:HG23	25:BC:115:ILE:HD11	1.66	0.76
23:BB:27:G:H22	23:BB:512:G:H2'	1.50	0.76
1:CA:939:G:H5''	6:CG:101:ARG:HH12	1.49	0.76
34:DM:20:LEU:HD13	34:DM:38:ARG:HG3	1.67	0.76
47:B0:6:LYS:HA	47:B0:6:LYS:NZ	1.99	0.76
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.21	0.76
31:DJ:135:GLN:NE2	31:DJ:138:GLN:H	1.83	0.76
40:BS:73:LYS:HB2	40:BS:106:VAL:HB	1.67	0.76
27:BE:4:VAL:HG22	27:BE:5:LEU:HD12	1.65	0.76
4:CE:47:PHE:HE1	4:CE:137:ARG:HE	1.34	0.76
48:B1:42:VAL:HG12	48:B1:43:ARG:HG3	1.67	0.76
25:BC:9:SER:HB2	25:BC:202:ARG:NE	2.00	0.76
28:DF:132:ARG:HD3	28:DF:133:GLU:H	1.48	0.76
23:BB:2420:C:OP1	50:B3:34:LYS:HB2	1.86	0.76
46:DZ:41:HIS:CG	46:DZ:42:PRO:HD2	2.21	0.76
4:AE:131:ASN:HD21	4:AE:133:ILE:HB	1.50	0.76
23:BB:2443:C:H2'	23:BB:2444:G:H8	1.51	0.76
1:CA:814:A:H5'	1:CA:1511:G:H4'	1.66	0.76
23:BB:1241:A:H2'	23:BB:1242:U:H5'	1.67	0.76
37:BP:51:ASN:HA	37:BP:61:ARG:H	1.51	0.76
38:DQ:48:ASP:HA	38:DQ:51:GLN:NE2	2.00	0.76
26:DD:116:LYS:HG2	26:DD:123:LYS:HE2	1.67	0.76
30:DH:94:ILE:HG22	30:DH:122:LEU:HG	1.68	0.76
23:BB:125:A:H3'	23:BB:126:A:C5'	2.15	0.76
24:DV:9:ARG:HH12	24:DV:12:GLN:HA	1.49	0.76
23:BB:643:A:C2	48:B1:42:VAL:HG13	2.21	0.76
35:BN:119:SER:HB2	35:BN:121:LYS:HG2	1.67	0.76
23:DB:2346:A:H3'	23:DB:2347:C:H5''	1.68	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:547:A:H2'	23:DB:547:A:N3	1.99	0.76
11:CL:49:ARG:HG2	11:CL:89:LEU:HD21	1.66	0.76
23:DB:1098:A:P	52:DI:3:LYS:HG2	2.25	0.76
28:BF:56:LEU:O	28:BF:59:ILE:HG22	1.86	0.76
23:DB:1175:A:H2'	23:DB:1176:U:H5'	1.68	0.76
30:BH:73:ASN:N	30:BH:73:ASN:HD22	1.83	0.76
33:DL:19:LEU:H	33:DL:19:LEU:HD22	1.51	0.76
52:BI:105:LEU:HD11	52:BI:139:VAL:HG11	1.66	0.76
9:CJ:25:ILE:HG23	9:CJ:87:LEU:HD12	1.68	0.76
8:AI:71:ILE:HD12	8:AI:71:ILE:H	1.50	0.76
25:BC:127:ASN:HD22	25:BC:128:THR:H	1.31	0.76
26:DD:60:VAL:HG23	26:DD:63:PRO:HG2	1.66	0.76
23:DB:974:G:H1'	23:DB:975:A:C8	2.21	0.76
16:AQ:16:MET:HB2	16:AQ:19:SER:HB2	1.66	0.76
8:AI:33:SER:HB3	8:AI:36:GLN:HB2	1.68	0.76
12:AM:44:ILE:HD12	12:AM:45:SER:H	1.51	0.76
10:AK:88:PRO:HD3	21:AU:28:LEU:HD13	1.68	0.76
36:BO:76:LYS:HG2	36:BO:110:ALA:HB2	1.68	0.76
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.52	0.76
20:AB:41:ASN:ND2	20:AB:44:LYS:HB2	2.00	0.76
23:BB:118:A:H5'	23:BB:119:A:H8	1.49	0.76
7:CH:72:GLU:H	7:CH:129:ALA:HB2	1.51	0.76
44:BX:45:GLN:H	44:BX:45:GLN:NE2	1.83	0.76
42:BU:78:LYS:HE3	42:BU:96:LYS:HB2	1.66	0.75
50:B3:12:ARG:HB2	50:B3:12:ARG:HH11	1.48	0.75
33:BL:91:ASP:O	33:BL:92:LEU:HB2	1.86	0.75
34:BM:42:THR:HG22	34:BM:45:GLN:HB2	1.67	0.75
24:DV:63:ILE:N	24:DV:70:ILE:HD11	1.99	0.75
16:AQ:45:VAL:HG12	16:AQ:46:HIS:H	1.49	0.75
2:AC:156:LEU:HD11	2:AC:163:ARG:O	1.87	0.75
25:BC:229:HIS:HE2	25:BC:244:VAL:HG22	1.48	0.75
2:AC:146:LYS:HE3	2:AC:202:PHE:HE2	1.51	0.75
35:BN:38:LEU:HB2	35:BN:109:PRO:HB2	1.68	0.75
2:AC:8:GLY:HA2	2:AC:11:LEU:HG	1.69	0.75
49:D2:43:THR:O	49:D2:44:VAL:HG13	1.85	0.75
31:BJ:7:LYS:HD2	31:BJ:49:ASP:HB2	1.66	0.75
23:BB:2301:C:H2'	23:BB:2302:U:C6	2.21	0.75
22:DA:47:C:OP1	36:DO:1:MET:HA	1.87	0.75
3:AD:137:SER:HB2	3:AD:138:PRO:HD2	1.68	0.75
23:BB:633:A:O5'	23:BB:633:A:H8	1.70	0.75
27:BE:141:MET:HG3	27:BE:143:LEU:H	1.52	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:94:THR:HB	33:BL:103:ILE:HG12	1.68	0.75
5:AF:92:THR:HG23	5:AF:93:LYS:H	1.51	0.75
2:AC:49:ALA:HB1	2:AC:75:VAL:HG22	1.68	0.75
49:D2:35:ARG:HH21	49:D2:42:LEU:HD12	1.51	0.75
20:CB:94:ARG:N	20:CB:94:ARG:HE	1.84	0.75
23:DB:957:C:OP1	34:DM:76:LYS:HD3	1.86	0.75
23:BB:78:U:H2'	23:BB:79:C:C6	2.21	0.75
30:DH:75:LEU:H	30:DH:75:LEU:HD23	1.51	0.75
20:CB:218:ALA:HA	20:CB:221:ARG:HG2	1.68	0.75
35:DN:42:LYS:HE3	35:DN:45:ARG:HG3	1.67	0.75
43:BW:23:LYS:HB2	43:BW:23:LYS:HZ2	1.51	0.75
23:BB:855:G:H21	43:BW:23:LYS:HD2	1.50	0.75
23:DB:534:U:H5'	38:DQ:41:ALA:HA	1.66	0.75
34:BM:71:LYS:HD2	34:BM:71:LYS:O	1.86	0.75
41:DT:14:PRO:HA	41:DT:32:LEU:HA	1.67	0.75
41:DT:55:VAL:HG23	41:DT:87:LEU:N	2.01	0.75
23:BB:1654:A:OP1	35:BN:1:MET:HB2	1.86	0.75
26:DD:179:ARG:HB2	26:DD:188:LEU:HD22	1.68	0.75
31:DJ:64:VAL:HG21	31:DJ:90:GLU:OE1	1.86	0.75
3:AD:159:GLU:HG3	3:AD:160:LEU:H	1.50	0.75
1:AA:967:C:H3'	1:AA:968:A:C5'	2.15	0.75
23:DB:1299:G:H4'	23:DB:1301:A:H1'	1.69	0.75
23:DB:2012:G:OP1	40:DS:98:LYS:HD3	1.85	0.75
23:DB:2204:G:O5'	25:DC:149:LYS:HE3	1.87	0.75
26:BD:8:LYS:HB3	37:BP:5:LYS:NZ	2.01	0.75
26:DD:37:VAL:HB	26:DD:46:ARG:HB2	1.68	0.75
42:DU:4:ILE:HG21	42:DU:27:VAL:HG13	1.68	0.75
45:BY:10:ARG:NE	45:BY:31:ILE:HG13	2.01	0.75
38:BQ:91:ARG:N	39:BR:10:LYS:HZ2	1.79	0.75
1:CA:780:A:O2'	1:CA:781:A:H5''	1.87	0.75
1:CA:1508:A:H2'	1:CA:1509:C:C6	2.22	0.75
29:BG:51:PHE:HE2	29:BG:63:GLN:HE21	1.34	0.75
23:DB:2443:C:H2'	23:DB:2444:G:H8	1.51	0.75
47:B0:8:THR:HG23	47:B0:9:ARG:H	1.51	0.75
7:CH:10:LEU:HD22	7:CH:74:ILE:HD11	1.68	0.75
1:CA:1399:C:H4'	1:CA:1400:C:H5''	1.67	0.75
23:BB:2346:A:H3'	23:BB:2347:C:H5''	1.67	0.75
1:CA:1056:U:H5'	2:CC:162:ALA:HB2	1.65	0.75
28:BF:102:LEU:O	28:BF:107:VAL:HG23	1.86	0.75
27:BE:89:PRO:O	27:BE:90:GLN:HG2	1.85	0.75
42:DU:3:LYS:HD3	42:DU:81:ARG:HH12	1.52	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:22:LEU:HD22	44:BX:26:PHE:HB2	1.69	0.75
26:BD:1:MET:HB2	26:BD:84:LEU:HD22	1.68	0.75
1:AA:1409:C:H42	1:AA:1491:G:H1	1.33	0.75
23:DB:898:C:O2'	23:DB:899:A:H5''	1.86	0.75
39:BR:58:VAL:HG22	39:BR:59:ILE:H	1.52	0.75
23:BB:1197:G:H2'	23:BB:1198:U:H6	1.49	0.75
48:B1:12:SER:HB2	48:B1:21:THR:O	1.85	0.75
52:BI:20:SER:HB3	52:BI:21:PRO:HD3	1.68	0.75
7:AH:30:LYS:HA	7:AH:30:LYS:NZ	2.01	0.75
1:CA:817:C:H1'	1:CA:819:A:H5'	1.69	0.75
3:CD:2:ARG:NH1	3:CD:114:ARG:HD3	2.00	0.75
24:DV:72:VAL:HG12	24:DV:93:ARG:HA	1.68	0.75
1:AA:575:G:H4'	1:AA:576:C:O5'	1.84	0.75
23:BB:1440:U:H2'	23:BB:1441:G:H8	1.51	0.75
23:BB:1486:U:H2'	23:BB:1487:U:C6	2.21	0.75
30:DH:11:ASN:HD22	30:DH:20:ASN:HD22	1.33	0.75
28:BF:35:LEU:HA	28:BF:153:ILE:HA	1.67	0.75
27:BE:120:VAL:H	27:BE:189:THR:HG22	1.50	0.75
26:BD:91:THR:HG23	26:BD:92:VAL:H	1.50	0.75
2:AC:153:SER:HB2	2:AC:196:GLY:H	1.51	0.75
23:DB:544:C:H2'	23:DB:545:U:C4	2.21	0.75
23:BB:65:U:OP1	41:BT:76:ARG:HB2	1.87	0.75
4:CE:44:ARG:HA	4:CE:71:ILE:O	1.85	0.75
1:CA:269:C:H2'	1:CA:270:A:H8	1.50	0.75
19:AT:59:ARG:HH11	19:AT:59:ARG:HB2	1.51	0.75
23:DB:1825:U:H5'	25:DC:244:VAL:CG2	2.16	0.75
1:AA:814:A:H5'	1:AA:1511:G:H4'	1.69	0.75
37:DP:28:LYS:H	37:DP:86:LYS:HD3	1.52	0.75
31:DJ:133:ALA:HA	31:DJ:136:GLN:HB2	1.66	0.75
16:AQ:18:LYS:HG2	16:AQ:48:GLU:HA	1.68	0.75
31:BJ:45:THR:HB	38:BQ:63:ARG:NH2	2.01	0.75
26:DD:24:VAL:HG11	26:DD:193:VAL:HG11	1.69	0.75
1:AA:780:A:O2'	1:AA:781:A:H5''	1.87	0.75
7:AH:5:PRO:HB2	7:AH:32:LYS:HZ1	1.49	0.75
23:DB:90:U:H3'	23:DB:91:A:C5'	2.17	0.75
23:DB:718:A:H2'	23:DB:719:C:H5'	1.67	0.75
23:DB:2756:U:H1'	23:DB:2757:A:H5''	1.69	0.75
2:CC:182:ASP:HB2	2:CC:203:LYS:HE2	1.67	0.75
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.21	0.75
42:BU:7:ASP:N	42:BU:24:VAL:HA	2.01	0.75
31:DJ:40:HIS:HA	38:DQ:69:ARG:HH12	1.50	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1111:A:HO2'	1:AA:1112:C:H6	1.30	0.75
23:DB:2204:G:H4'	25:DC:149:LYS:HG3	1.69	0.75
25:BC:235:GLU:HG3	25:BC:237:ARG:HD3	1.67	0.75
23:DB:704:G:O2'	23:DB:727:A:N6	2.19	0.75
36:DO:72:ALA:O	36:DO:76:LYS:HE3	1.87	0.75
1:AA:65:A:N3	1:AA:65:A:H2'	2.00	0.75
37:DP:47:ILE:HG22	37:DP:48:ALA:N	2.00	0.75
34:BM:42:THR:HA	34:BM:92:TRP:HD1	1.51	0.75
23:BB:742:A:H2'	23:BB:743:A:C8	2.21	0.75
23:DB:1060:U:C5	52:DI:131:THR:HG22	2.22	0.75
32:DK:102:PRO:HB3	32:DK:121:GLU:HG2	1.69	0.75
1:AA:1326:U:H2'	1:AA:1327:C:C6	2.21	0.75
52:BI:122:GLU:O	52:BI:126:ARG:HG3	1.87	0.75
25:DC:257:ARG:HA	25:DC:261:ARG:HD2	1.68	0.75
1:AA:269:C:H2'	1:AA:270:A:H8	1.50	0.75
33:DL:55:MET:HB3	33:DL:56:PRO:HD3	1.69	0.75
6:AG:67:ASN:HD22	6:AG:127:ALA:HA	1.51	0.75
23:DB:1099:G:C8	52:DI:3:LYS:HB2	2.22	0.74
23:DB:590:A:H2'	23:DB:591:U:C6	2.22	0.74
27:DE:142:ALA:N	27:DE:185:LYS:HZ1	1.83	0.74
33:BL:78:ARG:HG2	33:BL:99:ASN:HB3	1.69	0.74
8:CI:27:ILE:HD13	8:CI:34:LEU:HD13	1.68	0.74
16:AQ:10:ARG:NH1	16:AQ:56:ASP:H	1.85	0.74
23:DB:2751:G:H5'	29:DG:3:VAL:CG2	2.16	0.74
23:BB:590:A:H2'	23:BB:591:U:C6	2.22	0.74
35:DN:8:ARG:HD2	35:DN:46:ARG:HE	1.48	0.74
25:BC:77:VAL:HG21	25:BC:109:LEU:HG	1.69	0.74
1:CA:1277:C:O2'	1:CA:1279:G:H1'	1.86	0.74
1:AA:1125:U:H2'	1:AA:1126:U:H5'	1.68	0.74
23:BB:508:A:H2'	23:BB:509:C:H5'	1.66	0.74
25:DC:193:GLU:O	25:DC:194:VAL:HG13	1.87	0.74
23:BB:394:C:H2'	23:BB:395:U:O4'	1.86	0.74
1:CA:1316:G:H2'	1:CA:1318:A:OP2	1.87	0.74
25:BC:110:LYS:HE3	25:BC:111:ALA:H	1.52	0.74
49:D2:25:LYS:HD2	49:D2:25:LYS:N	2.01	0.74
41:BT:29:THR:HG22	41:BT:86:THR:HG22	1.69	0.74
3:CD:57:LYS:HB2	3:CD:199:ILE:HB	1.68	0.74
37:DP:32:VAL:HB	37:DP:80:VAL:HG13	1.69	0.74
11:AL:35:ARG:HA	11:AL:35:ARG:HE	1.52	0.74
15:CP:4:ILE:HG12	15:CP:21:VAL:HG22	1.67	0.74
23:DB:742:A:H2'	23:DB:743:A:C8	2.21	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1178:C:H2'	23:BB:1179:G:H8	1.51	0.74
1:AA:1000:A:H2'	1:AA:1001:C:C6	2.22	0.74
23:BB:2471:A:O2'	23:BB:2472:G:H8	1.70	0.74
23:BB:2840:C:H5''	35:BN:53:THR:HG21	1.69	0.74
20:CB:18:GLN:O	20:CB:37:VAL:HG23	1.86	0.74
27:BE:52:VAL:HG22	27:BE:53:THR:H	1.52	0.74
20:AB:61:SER:HA	20:AB:224:ARG:HA	1.69	0.74
25:DC:15:VAL:HG13	25:DC:16:VAL:HG23	1.67	0.74
23:BB:1113:U:H5''	29:BG:1:SER:HA	1.69	0.74
47:D0:32:THR:HG21	47:D0:41:HIS:NE2	2.01	0.74
46:BZ:53:THR:HA	46:BZ:56:ARG:HD2	1.68	0.74
23:BB:1009:A:O2'	38:BQ:61:ILE:HD11	1.86	0.74
26:BD:35:THR:HG22	26:BD:46:ARG:HH22	1.52	0.74
39:DR:4:VAL:HG12	39:DR:43:ASN:HB3	1.69	0.74
23:BB:275:C:H2'	23:BB:276:U:O4'	1.86	0.74
49:D2:35:ARG:NH2	49:D2:43:THR:H	1.86	0.74
23:BB:107:G:H21	23:BB:346:A:N6	1.84	0.74
3:CD:117:VAL:HG12	3:CD:130:ASN:HA	1.70	0.74
23:BB:1727:C:H2'	23:BB:1728:C:C6	2.22	0.74
1:CA:878:A:O4'	7:CH:3:GLN:HG3	1.88	0.74
23:BB:2086:U:H2'	23:BB:2087:G:C8	2.22	0.74
20:CB:81:ASP:HA	20:CB:84:LEU:HD22	1.68	0.74
30:DH:6:LEU:HD12	30:DH:36:ALA:N	2.02	0.74
23:BB:857:G:O2'	23:BB:858:G:H5'	1.86	0.74
33:BL:118:THR:CG2	33:BL:119:PRO:HD3	2.17	0.74
33:BL:38:GLN:CD	33:BL:39:LYS:H	1.89	0.74
38:DQ:7:VAL:HG13	38:DQ:8:ILE:HD12	1.67	0.74
10:CK:110:THR:HG22	21:CU:5:VAL:H	1.52	0.74
21:AU:40:PRO:HG2	21:AU:41:THR:H	1.51	0.74
23:BB:643:A:H2	48:B1:42:VAL:HG13	1.52	0.74
1:CA:270:A:H2'	1:CA:271:C:C6	2.23	0.74
1:CA:1436:U:H2'	1:CA:1437:A:H8	1.52	0.74
2:CC:95:GLY:O	2:CC:96:VAL:HG13	1.86	0.74
36:DO:100:HIS:O	36:DO:104:GLN:HB3	1.87	0.74
1:AA:1446:A:H2'	1:AA:1447:A:H5''	1.69	0.74
25:BC:146:LYS:HB3	25:BC:147:PRO:HD2	1.69	0.74
30:BH:26:ALA:HB1	30:BH:31:VAL:HG23	1.70	0.74
34:BM:8:LYS:HZ2	34:BM:70:ASP:H	1.34	0.74
38:BQ:47:ARG:HH22	38:BQ:50:ARG:HB3	1.51	0.74
35:BN:82:GLU:O	35:BN:86:ARG:HG3	1.88	0.74
1:CA:1219:A:H5''	13:CN:52:ARG:HH12	1.52	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:78:ARG:NH2	12:AM:79:LEU:HG	2.03	0.74
41:BT:5:GLU:HG2	41:BT:6:ARG:N	2.02	0.74
25:BC:222:THR:HA	25:BC:231:HIS:NE2	2.02	0.74
11:AL:22:ALA:HB1	11:AL:29:LYS:HG3	1.70	0.74
35:BN:62:ASN:ND2	35:BN:80:PHE:HB3	2.02	0.74
38:BQ:106:THR:O	38:BQ:109:VAL:HG22	1.86	0.74
16:CQ:5:ARG:HB3	16:CQ:7:LEU:HD23	1.70	0.74
1:CA:430:A:OP1	3:CD:8:LEU:HB2	1.86	0.74
11:AL:20:VAL:HG13	11:AL:94:TYR:HH	1.50	0.74
14:CO:21:THR:HA	14:CO:26:VAL:HG11	1.69	0.74
42:DU:46:LYS:HE2	42:DU:53:GLN:HA	1.69	0.74
43:DW:42:THR:HG23	43:DW:66:VAL:H	1.53	0.74
34:BM:69:PRO:O	34:BM:70:ASP:HB3	1.86	0.74
45:BY:54:VAL:HG22	45:BY:55:LYS:H	1.52	0.74
30:DH:121:VAL:HG23	30:DH:122:LEU:HD23	1.68	0.74
40:DS:6:LYS:HA	40:DS:104:THR:HA	1.68	0.74
2:AC:179:ALA:HB1	2:AC:202:PHE:HE1	1.50	0.74
23:DB:2144:G:O2'	23:DB:2145:C:H5'	1.87	0.74
1:AA:1008:U:H2'	1:AA:1009:U:H4'	1.68	0.74
23:DB:2102:G:H2'	23:DB:2103:C:O4'	1.87	0.74
4:AE:87:VAL:HG12	4:AE:92:ARG:HA	1.68	0.74
33:BL:77:ILE:HG22	33:BL:78:ARG:HG3	1.69	0.74
49:D2:25:LYS:HD2	49:D2:25:LYS:H	1.52	0.74
27:BE:47:LYS:CD	27:BE:47:LYS:H	1.98	0.74
44:BX:22:LEU:HD22	44:BX:26:PHE:H	1.52	0.74
43:DW:3:LYS:HA	43:DW:3:LYS:HZ3	1.50	0.74
23:BB:1437:C:H2'	23:BB:1438:U:C6	2.22	0.74
1:CA:1170:A:H2'	1:CA:1171:A:O4'	1.88	0.74
23:BB:19:A:H2'	23:BB:20:C:C6	2.23	0.74
43:BW:48:ALA:HB3	43:BW:72:GLY:HA3	1.68	0.74
33:BL:110:VAL:HB	33:BL:126:ARG:NH2	2.02	0.74
32:BK:11:ALA:HB3	32:BK:85:VAL:CG2	2.17	0.74
34:BM:95:LEU:HD22	34:BM:98:PRO:HG3	1.69	0.74
50:D3:51:LYS:HA	50:D3:51:LYS:NZ	2.03	0.74
18:CS:50:VAL:HG21	18:CS:70:LEU:HG	1.70	0.74
42:BU:81:ARG:HH11	42:BU:81:ARG:HA	1.52	0.74
23:DB:1063:G:H1'	52:DI:92:PRO:HG2	1.70	0.74
23:BB:2420:C:OP1	50:B3:34:LYS:HE3	1.87	0.74
23:DB:704:G:H1'	23:DB:727:A:N6	2.03	0.74
23:DB:2257:U:H5'	43:DW:5:ALA:HB2	1.69	0.74
22:BA:60:C:H2'	22:BA:61:G:H8	1.53	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:99:LYS:HZ2	27:DE:99:LYS:C	1.91	0.74
20:AB:120:SER:HA	20:AB:125:PHE:HB3	1.68	0.74
13:AN:42:ASN:HB3	13:AN:46:LYS:HE2	1.70	0.74
23:BB:37:C:C2'	27:BE:46:GLN:HG2	2.17	0.74
26:BD:13:ARG:HA	26:BD:13:ARG:HH11	1.53	0.74
26:BD:110:THR:HG22	26:BD:171:THR:HA	1.70	0.74
1:AA:1294:G:H2'	1:AA:1295:U:C6	2.22	0.74
23:DB:633:A:O5'	23:DB:633:A:H8	1.69	0.74
49:B2:13:ASN:HA	49:B2:18:PHE:HB2	1.69	0.74
26:BD:107:VAL:HA	26:BD:205:PRO:O	1.87	0.74
29:DG:155:PRO:HB3	29:DG:171:LYS:HB3	1.68	0.74
52:DI:20:SER:HB3	52:DI:21:PRO:HD3	1.68	0.74
23:DB:1081:U:H5'	52:DI:126:ARG:NH1	2.02	0.74
23:DB:1785:A:H2'	23:DB:1787:A:N7	2.03	0.74
22:DA:17:C:H2'	22:DA:18:G:O4'	1.88	0.74
23:BB:192:C:H2'	23:BB:193:U:H5'	1.69	0.74
4:CE:82:HIS:HB2	4:CE:83:PRO:HD2	1.70	0.74
8:CI:4:GLN:HG2	8:CI:21:LYS:HD3	1.69	0.74
48:B1:53:ILE:HD13	48:B1:54:LYS:N	2.03	0.74
9:AJ:92:LEU:H	9:AJ:92:LEU:HD22	1.52	0.74
36:DO:21:LEU:HD23	36:DO:22:GLY:H	1.51	0.74
15:AP:42:ILE:HG22	15:AP:43:ALA:H	1.52	0.74
23:BB:1252:G:O6	38:BQ:35:PHE:HB2	1.88	0.74
23:BB:588:U:OP1	33:BL:27:LEU:HB2	1.86	0.74
26:DD:33:ARG:HH11	26:DD:33:ARG:HB2	1.51	0.74
52:BI:7:TYR:HB2	52:BI:58:ILE:O	1.88	0.74
23:BB:467:G:OP1	49:B2:33:ARG:HD3	1.88	0.74
13:AN:30:ILE:HG21	13:AN:41:TRP:HB2	1.68	0.74
23:BB:1176:U:H2'	23:BB:1177:G:O4'	1.88	0.74
23:DB:704:G:H1'	23:DB:727:A:H61	1.52	0.74
1:AA:270:A:H2'	1:AA:271:C:C6	2.23	0.74
23:DB:1727:C:H2'	23:DB:1728:C:C6	2.22	0.74
1:AA:817:C:H1'	1:AA:819:A:H5'	1.69	0.74
37:BP:62:LYS:HE3	37:BP:74:GLN:HE22	1.53	0.73
24:DV:63:ILE:H	24:DV:70:ILE:CD1	1.99	0.73
23:DB:143:C:O2	41:DT:3:ARG:HD2	1.88	0.73
27:DE:6:LYS:HG2	27:DE:119:ILE:HB	1.69	0.73
1:CA:239:U:OP1	1:CA:239:U:H4'	1.88	0.73
1:CA:812:G:H2'	1:CA:812:G:N3	2.02	0.73
23:BB:2301:C:H2'	23:BB:2302:U:H6	1.52	0.73
1:AA:501:C:H2'	1:AA:502:A:H8	1.52	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:643:A:N6	23:DB:2370:G:H1'	2.01	0.73
1:CA:501:C:H2'	1:CA:502:A:H8	1.52	0.73
30:BH:84:ALA:HA	30:BH:90:LEU:HG	1.70	0.73
25:BC:107:LYS:CB	25:BC:194:VAL:HG11	2.17	0.73
33:BL:110:VAL:H	33:BL:126:ARG:HB2	1.52	0.73
34:BM:114:ARG:HH21	34:BM:125:PRO:HA	1.53	0.73
40:BS:34:ASP:N	40:BS:37:THR:HG22	2.03	0.73
51:B4:25:VAL:HG23	51:B4:35:GLN:HB2	1.68	0.73
23:BB:2511:U:H4'	26:BD:128:ARG:NH2	2.03	0.73
26:DD:189:VAL:HG12	26:DD:190:LYS:H	1.52	0.73
1:CA:619:U:H3	3:CD:130:ASN:ND2	1.87	0.73
23:BB:2239:G:H5'	25:BC:246:PRO:CD	2.19	0.73
2:AC:185:THR:HG22	2:AC:186:SER:H	1.52	0.73
8:CI:114:LYS:HB2	8:CI:117:LEU:HD12	1.70	0.73
23:DB:1437:C:H2'	23:DB:1438:U:C6	2.22	0.73
6:CG:58:LEU:H	6:CG:58:LEU:HD23	1.51	0.73
52:DI:121:ILE:HD13	52:DI:121:ILE:H	1.52	0.73
23:DB:1098:A:H2'	52:DI:3:LYS:C	2.08	0.73
23:BB:2575:C:H4'	26:BD:148:GLN:CA	2.17	0.73
45:BY:20:LYS:HA	45:BY:24:LEU:HB2	1.69	0.73
34:DM:2:LEU:HD12	34:DM:2:LEU:H	1.53	0.73
23:BB:1392:A:N6	41:BT:18:GLU:HG2	2.04	0.73
26:DD:27:ILE:HD13	26:DD:28:GLU:N	2.03	0.73
26:BD:138:LEU:HD23	26:BD:138:LEU:H	1.52	0.73
45:BY:15:ARG:N	45:BY:15:ARG:HE	1.87	0.73
48:B1:45:HIS:O	48:B1:46:VAL:HG12	1.87	0.73
34:BM:82:MET:HB2	34:BM:84:LYS:HZ2	1.53	0.73
35:DN:86:ARG:HB3	35:DN:86:ARG:NH1	2.02	0.73
23:BB:1299:G:H4'	23:BB:1301:A:H1'	1.68	0.73
23:DB:578:G:N2	38:DQ:32:ARG:HH21	1.86	0.73
29:BG:157:LYS:HG3	29:BG:159:LYS:HZ2	1.53	0.73
23:BB:1785:A:H2'	23:BB:1787:A:N7	2.03	0.73
43:DW:35:ILE:HG21	43:DW:70:VAL:HG11	1.71	0.73
25:BC:129:LEU:HD23	25:BC:130:PRO:HD2	1.70	0.73
43:BW:23:LYS:HB2	43:BW:23:LYS:NZ	2.04	0.73
38:BQ:65:ASN:HB2	38:BQ:75:TYR:HB2	1.69	0.73
10:AK:113:THR:HG21	21:AU:28:LEU:HD11	1.71	0.73
33:BL:95:LEU:H	33:BL:95:LEU:HD12	1.53	0.73
41:BT:30:ILE:HG23	41:BT:31:VAL:N	2.03	0.73
2:AC:155:ARG:H	2:AC:162:ALA:HA	1.52	0.73
29:DG:5:LYS:HD3	29:DG:68:ARG:HB3	1.68	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1241:G:H2'	1:CA:1242:G:H8	1.52	0.73
22:BA:50:A:H5''	36:BO:68:LYS:HD2	1.71	0.73
1:CA:268:U:H2'	1:CA:269:C:C6	2.23	0.73
23:DB:1820:U:H3	25:DC:197:ALA:HB1	1.53	0.73
36:BO:50:ALA:HB2	36:BO:83:LEU:HD11	1.70	0.73
34:DM:41:LEU:HD23	34:DM:67:VAL:HG21	1.71	0.73
24:BV:70:ILE:HG12	24:BV:71:LYS:H	1.51	0.73
1:CA:922:G:H2'	1:CA:923:A:C8	2.23	0.73
29:BG:26:LYS:HA	29:BG:31:GLU:HG2	1.70	0.73
23:DB:2895:G:H2'	23:DB:2896:C:C6	2.24	0.73
23:BB:1714:U:H3'	23:BB:1715:G:C5'	2.18	0.73
23:BB:1171:G:H2'	23:BB:1172:C:O4'	1.88	0.73
23:DB:2185:U:H2'	23:DB:2186:G:O4'	1.88	0.73
23:BB:2682:A:C2	26:BD:22:ILE:HD11	2.22	0.73
23:DB:2331:G:H4'	43:DW:69:GLU:HB2	1.71	0.73
25:DC:68:ARG:NH2	25:DC:127:ASN:HA	2.02	0.73
36:DO:25:ARG:HE	36:DO:94:ARG:HH12	1.36	0.73
28:BF:135:ILE:HD13	28:BF:138:PRO:HA	1.69	0.73
34:DM:92:TRP:HD1	34:DM:93:VAL:H	1.36	0.73
13:CN:9:GLU:HA	13:CN:12:ARG:HB3	1.71	0.73
23:DB:2157:G:N3	23:DB:2157:G:H2'	2.04	0.73
1:AA:268:U:H2'	1:AA:269:C:C6	2.23	0.73
16:CQ:59:GLU:O	16:CQ:75:VAL:HG22	1.88	0.73
23:DB:179:C:H5''	49:D2:28:ARG:NH1	2.04	0.73
35:BN:99:LYS:NZ	35:BN:99:LYS:HB3	2.03	0.73
42:DU:59:GLU:HG3	42:DU:62:ALA:HB2	1.69	0.73
35:DN:34:ILE:HG22	35:DN:35:LYS:H	1.53	0.73
23:DB:920:A:H2'	23:DB:921:C:H6	1.52	0.73
1:AA:278:G:H21	1:AA:279:A:H62	1.36	0.73
23:DB:2064:C:H2'	23:DB:2065:C:C6	2.24	0.73
23:DB:1406:U:H2'	23:DB:1407:G:H8	1.53	0.73
14:CO:88:ARG:HH22	23:DB:714:U:H3'	1.54	0.73
42:DU:24:VAL:HG12	42:DU:26:ASN:OD1	1.87	0.73
27:DE:149:ILE:HG12	27:DE:186:VAL:HA	1.71	0.73
34:BM:8:LYS:HE3	34:BM:70:ASP:HA	1.71	0.73
11:AL:8:ARG:HG3	11:AL:9:LYS:N	2.00	0.73
41:DT:67:VAL:HG12	41:DT:68:LYS:H	1.53	0.73
34:DM:5:LYS:HB2	34:DM:69:PRO:HG2	1.71	0.73
26:BD:159:LYS:HB2	26:BD:159:LYS:NZ	2.04	0.73
13:CN:30:ILE:HG22	13:CN:41:TRP:HB3	1.70	0.73
23:DB:2684:U:H4'	32:DK:76:VAL:HG21	1.71	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DA:32:U:H1'	22:DA:52:A:N7	2.03	0.73
28:DF:56:LEU:HA	28:DF:59:ILE:HG22	1.71	0.73
1:AA:239:U:H4'	1:AA:239:U:OP1	1.88	0.73
1:AA:1026:G:H2'	1:AA:1027:C:C6	2.24	0.73
20:CB:59:ILE:HD12	20:CB:60:ALA:N	2.04	0.73
27:DE:49:ARG:HG3	27:DE:52:VAL:CG2	2.18	0.73
38:DQ:43:GLN:HA	39:DR:79:ARG:HG2	1.71	0.73
18:AS:48:ILE:HB	18:AS:59:VAL:HB	1.71	0.73
12:AM:11:HIS:N	12:AM:44:ILE:HD11	2.03	0.73
51:B4:24:ARG:HH22	51:B4:36:ARG:HD2	1.54	0.73
52:DI:72:THR:HG22	52:DI:115:ASP:OD2	1.89	0.73
52:DI:55:PRO:HD3	52:DI:74:PRO:HD3	1.69	0.73
16:CQ:11:VAL:HG13	16:CQ:20:ILE:HG23	1.71	0.73
30:BH:73:ASN:HD22	30:BH:73:ASN:H	1.33	0.73
1:AA:812:G:H2'	1:AA:812:G:N3	2.02	0.73
23:DB:1440:U:H2'	23:DB:1441:G:H8	1.51	0.73
29:DG:175:LYS:HG2	29:DG:176:LYS:H	1.54	0.73
1:CA:278:G:H21	1:CA:279:A:H62	1.36	0.73
1:CA:575:G:H4'	1:CA:576:C:O5'	1.87	0.73
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.54	0.73
20:CB:130:LYS:HB3	20:CB:134:LEU:HB2	1.70	0.73
42:DU:38:ILE:HD13	42:DU:64:ILE:HG13	1.70	0.73
23:DB:2814:A:H2'	23:DB:2815:C:H6	1.54	0.73
34:BM:69:PRO:HB3	34:BM:93:VAL:HG12	1.70	0.73
34:DM:71:LYS:HA	34:DM:71:LYS:HZ3	1.53	0.73
20:CB:99:MET:HA	20:CB:106:VAL:HG21	1.71	0.73
45:DY:26:LEU:HD12	45:DY:28:LEU:HD22	1.70	0.73
23:BB:704:G:O2'	23:BB:727:A:N6	2.22	0.73
23:BB:222:A:N6	23:BB:232:G:H1'	2.03	0.73
23:DB:950:G:H2'	23:DB:951:C:C6	2.24	0.73
22:BA:20:G:H2'	22:BA:21:G:H8	1.54	0.73
27:BE:195:GLN:H	27:BE:199:MET:HA	1.54	0.73
23:BB:934:U:H2'	23:BB:935:C:C6	2.24	0.73
1:AA:1498:U:H3'	53:AA:1601:KSG:N1	2.04	0.73
23:DB:1099:G:OP2	52:DI:3:LYS:HA	1.89	0.72
34:BM:4:PRO:HD3	34:BM:47:GLU:OE1	1.89	0.72
37:BP:27:VAL:HG21	37:BP:86:LYS:HB2	1.71	0.72
25:BC:140:VAL:O	25:BC:141:HIS:HB2	1.89	0.72
25:DC:141:HIS:HB3	25:DC:190:THR:HB	1.69	0.72
42:DU:33:VAL:HG23	42:DU:65:GLN:NE2	2.04	0.72
42:DU:4:ILE:HD13	42:DU:5:ARG:N	2.04	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:942:G:H5"	33:BL:40:SER:HB3	1.70	0.72
33:DL:77:ILE:HD12	33:DL:77:ILE:N	2.03	0.72
33:BL:79:LEU:HA	33:BL:113:ALA:HB3	1.71	0.72
22:BA:60:C:H2'	22:BA:61:G:C8	2.24	0.72
23:DB:1241:A:H2'	23:DB:1242:U:H5'	1.69	0.72
8:AI:117:LEU:HD22	8:AI:123:ARG:HG2	1.71	0.72
1:CA:1179:A:H2'	1:CA:1180:A:O4'	1.87	0.72
1:CA:492:C:H2'	1:CA:493:A:H5"	1.71	0.72
23:DB:631:A:HO2'	33:DL:66:PHE:HD1	1.37	0.72
11:CL:17:LYS:HB2	11:CL:17:LYS:NZ	2.04	0.72
23:BB:1041:G:H2'	23:BB:1042:G:H8	1.53	0.72
43:BW:66:VAL:HG13	43:BW:67:LYS:N	2.04	0.72
38:DQ:69:ARG:HA	38:DQ:73:ILE:HG22	1.69	0.72
25:BC:79:ARG:NH1	25:BC:80:LEU:H	1.87	0.72
39:DR:47:VAL:HG12	39:DR:49:ILE:HG12	1.71	0.72
22:DA:51:G:C2'	22:DA:52:A:H5"	2.19	0.72
12:AM:18:LEU:HB3	12:AM:29:SER:HB2	1.69	0.72
2:AC:53:ARG:HG2	2:AC:54:ILE:H	1.54	0.72
4:CE:44:ARG:NH1	4:CE:72:ASN:HD21	1.86	0.72
2:CC:61:LYS:HB3	2:CC:61:LYS:HZ3	1.54	0.72
1:AA:922:G:H4'	4:AE:24:VAL:HA	1.70	0.72
1:AA:927:G:H4'	1:AA:1503:A:N7	2.04	0.72
30:DH:39:ALA:O	30:DH:43:ASN:HB2	1.89	0.72
23:DB:1714:U:H3'	23:DB:1715:G:C5'	2.18	0.72
43:DW:69:GLU:HG3	43:DW:70:VAL:H	1.52	0.72
41:DT:62:VAL:HG23	41:DT:63:VAL:H	1.55	0.72
41:BT:12:ARG:HE	44:BX:29:ARG:HH22	1.35	0.72
33:DL:92:LEU:HD22	33:DL:96:LYS:HG2	1.72	0.72
23:BB:2722:G:H4'	35:BN:4:ARG:HB3	1.69	0.72
23:DB:1813:G:H21	25:DC:50:THR:HG23	1.55	0.72
1:CA:1111:A:N1	2:CC:176:THR:HG22	2.03	0.72
1:AA:78:A:H2'	1:AA:79:G:C8	2.24	0.72
23:BB:459:U:H5'	49:B2:41:ARG:HE	1.53	0.72
23:DB:151:C:H2'	23:DB:152:A:H8	1.52	0.72
1:CA:120:A:H2'	1:CA:121:U:H5"	1.71	0.72
23:BB:2895:G:H2'	23:BB:2896:C:C6	2.23	0.72
9:AJ:56:HIS:O	9:AJ:57:VAL:HG12	1.89	0.72
47:D0:36:LYS:HB2	47:D0:41:HIS:HA	1.72	0.72
27:DE:153:LEU:HD13	27:DE:154:ASP:N	2.03	0.72
46:BZ:3:LYS:HE3	46:BZ:8:LYS:HA	1.69	0.72
48:B1:14:ALA:HA	48:B1:48:TYR:HA	1.71	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BA:48:U:H2'	22:BA:49:C:C6	2.24	0.72
52:DI:42:ASN:HA	52:DI:45:THR:OG1	1.90	0.72
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.24	0.72
13:CN:82:LYS:HE2	13:CN:85:GLU:HG3	1.71	0.72
1:AA:390:U:H2'	1:AA:391:G:C8	2.25	0.72
19:CT:38:ILE:HD11	19:CT:82:ILE:HG22	1.71	0.72
23:DB:2471:A:O2'	23:DB:2472:G:H8	1.71	0.72
6:CG:90:VAL:HG13	6:CG:94:ARG:HD3	1.69	0.72
1:CA:390:U:H2'	1:CA:391:G:C8	2.25	0.72
27:DE:21:ARG:HH12	27:DE:23:PHE:HB3	1.55	0.72
5:CF:11:HIS:ND1	5:CF:12:PRO:HD2	2.04	0.72
29:BG:9:VAL:HG23	29:BG:47:ASN:HB3	1.70	0.72
25:DC:143:VAL:HG12	25:DC:144:GLU:H	1.52	0.72
23:DB:974:G:H1'	23:DB:975:A:H8	1.54	0.72
23:BB:2575:C:H5''	26:BD:149:ASN:CB	2.19	0.72
23:BB:811:U:H2'	33:BL:31:GLY:CA	2.18	0.72
23:BB:588:U:H5'	33:BL:28:GLY:HA2	1.71	0.72
13:CN:29:ILE:HG22	13:CN:30:ILE:HG13	1.71	0.72
23:BB:616:A:H3'	23:BB:617:G:H8	1.54	0.72
23:BB:1774:C:H2'	23:BB:1774:C:O2	1.88	0.72
24:DV:7:GLU:HA	24:DV:65:VAL:HG23	1.71	0.72
7:AH:76:ARG:HG2	7:AH:77:VAL:H	1.55	0.72
6:CG:72:VAL:HG12	6:CG:89:GLU:HA	1.71	0.72
1:CA:1060:U:H4'	9:CJ:54:SER:HB2	1.70	0.72
43:DW:58:LEU:HG	43:DW:81:ILE:HA	1.71	0.72
31:BJ:20:ALA:HB1	31:BJ:59:ALA:HA	1.70	0.72
27:DE:147:LEU:HB3	27:DE:167:VAL:HG13	1.71	0.72
24:BV:24:ASN:O	24:BV:44:HIS:HB2	1.89	0.72
50:D3:12:ARG:HB3	50:D3:23:HIS:CB	2.20	0.72
38:DQ:111:LYS:HE2	39:DR:52:PRO:HG3	1.71	0.72
33:BL:21:ARG:NH1	33:BL:21:ARG:HB3	2.04	0.72
23:BB:2064:C:H2'	23:BB:2065:C:H6	1.54	0.72
1:CA:269:C:H2'	1:CA:270:A:C8	2.24	0.72
23:BB:1324:G:H1'	23:BB:1616:A:N6	2.05	0.72
27:BE:98:LYS:HG3	27:BE:99:LYS:N	2.05	0.72
2:AC:26:LYS:HD3	2:AC:27:GLU:N	2.05	0.72
23:DB:1275:A:H2	23:DB:1645:G:H21	1.35	0.72
1:AA:613:C:OP1	3:AD:80:ARG:HG3	1.90	0.72
23:BB:1406:U:H2'	23:BB:1407:G:H8	1.52	0.72
23:BB:370:G:O2'	23:BB:423:A:H3'	1.89	0.72
37:DP:49:ILE:O	37:DP:50:ARG:HD3	1.89	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:61:THR:HG23	26:DD:62:LYS:HD3	1.70	0.72
31:BJ:62:VAL:HG21	31:BJ:101:ILE:HD11	1.72	0.72
23:DB:2020:A:H5'	47:D0:8:THR:CG2	2.19	0.72
32:BK:2:ILE:HD11	32:BK:8:LEU:HD11	1.71	0.72
23:DB:2091:C:H3'	23:DB:2092:U:C5'	2.19	0.72
23:DB:2291:U:H2'	23:DB:2292:U:C6	2.25	0.72
23:BB:1224:U:H4'	39:BR:90:ARG:HB3	1.71	0.72
23:BB:2328:A:H2'	23:BB:2329:U:C6	2.24	0.72
23:BB:142:A:N3	41:BT:2:ILE:HD12	2.04	0.72
4:AE:23:THR:HG23	4:AE:28:ARG:HD3	1.70	0.72
23:BB:2814:A:H2'	23:BB:2815:C:H6	1.54	0.72
1:AA:269:C:H2'	1:AA:270:A:C8	2.24	0.72
23:DB:414:C:H2'	23:DB:415:A:C8	2.24	0.72
23:BB:1275:A:H2	23:BB:1645:G:H21	1.35	0.72
27:DE:130:LYS:NZ	27:DE:130:LYS:HB2	2.05	0.72
35:DN:102:PHE:HD1	40:DS:40:ASN:HD21	1.37	0.72
34:BM:3:GLN:HG2	34:BM:46:ILE:HB	1.70	0.72
23:DB:2898:U:O2'	31:DJ:137:PRO:HB3	1.89	0.72
46:BZ:8:LYS:CD	46:BZ:9:TYR:H	2.01	0.72
13:AN:60:ARG:HH21	13:AN:62:ARG:HE	1.36	0.72
1:CA:1000:A:H2'	1:CA:1001:C:C6	2.23	0.72
27:BE:147:LEU:O	27:BE:148:ILE:HG13	1.90	0.72
33:DL:77:ILE:HD12	33:DL:77:ILE:H	1.54	0.72
23:DB:833:A:H1'	33:DL:54:GLN:OE1	1.89	0.72
26:BD:106:LYS:NZ	26:BD:208:LYS:HD3	2.04	0.72
16:CQ:68:LYS:HG2	16:CQ:69:THR:HG23	1.72	0.72
23:DB:1774:C:O2	23:DB:1774:C:H2'	1.88	0.72
25:DC:10:PRO:HD2	25:DC:202:ARG:HH22	1.53	0.72
14:CO:38:LEU:HD23	14:CO:55:LEU:HD13	1.72	0.72
9:AJ:67:ILE:HG13	13:AN:95:LEU:HD13	1.71	0.72
23:BB:2241:A:H2'	23:BB:2242:G:C8	2.25	0.72
35:DN:56:LYS:HG3	35:DN:57:THR:H	1.55	0.72
6:AG:148:LYS:HG3	6:AG:151:ALA:HB3	1.71	0.72
23:DB:836:G:H2'	23:DB:837:C:C6	2.24	0.72
37:BP:26:GLU:HA	37:BP:46:VAL:HG13	1.71	0.72
23:BB:155:A:H2'	23:BB:156:A:C8	2.24	0.72
35:DN:28:LEU:HA	35:DN:34:ILE:HD11	1.72	0.72
13:AN:12:ARG:HA	13:AN:15:LEU:HD11	1.71	0.72
35:BN:28:LEU:HD11	35:BN:44:LEU:HD21	1.72	0.72
23:BB:136:G:H2'	23:BB:137:U:C6	2.25	0.72
1:AA:95:C:H2'	1:AA:95:C:O2	1.87	0.72

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:439:U:H4'	3:CD:120:LYS:HD2	1.72	0.72
23:BB:1275:A:N3	23:BB:1275:A:H3'	2.05	0.72
23:DB:1309:G:H5''	49:D2:9:VAL:HG13	1.72	0.72
28:DF:45:ASP:O	28:DF:46:LYS:HG3	1.90	0.72
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.55	0.72
1:AA:859:G:H2'	1:AA:860:A:C8	2.25	0.72
27:BE:44:ARG:H	27:BE:44:ARG:HD3	1.53	0.72
43:DW:43:LYS:O	43:DW:44:PHE:HB2	1.87	0.72
36:DO:28:VAL:HG13	36:DO:106:LEU:HD13	1.72	0.72
36:DO:25:ARG:HG2	36:DO:94:ARG:HH22	1.54	0.72
33:BL:30:THR:HA	33:BL:36:LYS:HE3	1.71	0.72
38:DQ:69:ARG:HB3	38:DQ:69:ARG:NH1	2.05	0.72
33:DL:109:LYS:HE2	33:DL:126:ARG:CZ	2.20	0.72
4:CE:104:ILE:HD12	4:CE:111:ARG:HD3	1.72	0.72
23:DB:2328:A:H2'	23:DB:2329:U:C6	2.24	0.72
6:AG:94:ARG:HD3	6:AG:98:LEU:HD11	1.72	0.72
1:AA:1035:A:H2'	1:AA:1036:A:H8	1.53	0.72
40:DS:42:LYS:O	40:DS:45:VAL:HG13	1.90	0.72
4:CE:23:THR:HA	4:CE:28:ARG:HA	1.72	0.72
23:DB:1469:A:H2'	23:DB:1470:A:C8	2.25	0.72
23:BB:324:A:H2'	23:BB:325:G:O4'	1.89	0.72
6:CG:12:LEU:HD22	6:CG:13:PRO:HD2	1.72	0.72
2:CC:128:MET:SD	2:CC:131:ARG:HB2	2.29	0.72
26:BD:175:LEU:HD11	26:BD:192:ALA:HB3	1.72	0.71
23:BB:2266:A:C4'	23:BB:2267:A:N7	2.53	0.71
34:BM:37:GLY:H	34:BM:97:GLN:HE21	1.35	0.71
39:DR:65:ALA:HB3	39:DR:100:GLY:H	1.55	0.71
42:BU:60:LYS:HG3	42:BU:61:GLU:H	1.54	0.71
5:AF:54:LEU:HD13	5:AF:55:HIS:H	1.55	0.71
27:BE:159:LEU:HA	27:BE:169:VAL:HG21	1.71	0.71
23:DB:289:G:H2'	23:DB:290:U:C6	2.24	0.71
8:CI:79:ARG:O	8:CI:79:ARG:HD2	1.90	0.71
2:AC:13:ILE:O	2:AC:14:VAL:HG22	1.90	0.71
23:DB:598:U:H5'	33:DL:21:ARG:HB2	1.70	0.71
23:DB:1429:G:H2'	23:DB:1430:G:H8	1.55	0.71
23:DB:1275:A:N3	23:DB:1275:A:H3'	2.05	0.71
1:AA:275:G:C5'	16:AQ:15:LYS:HG2	2.20	0.71
25:DC:28:PRO:HG2	25:DC:79:ARG:CZ	2.20	0.71
30:BH:57:LYS:HG3	30:BH:61:VAL:HG21	1.70	0.71
1:CA:1289:A:H3'	1:CA:1290:G:H8	1.55	0.71
23:BB:2246:G:H2'	23:BB:2247:A:H8	1.55	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:49:LYS:HG3	7:AH:50:VAL:H	1.55	0.71
23:DB:1118:C:H2'	23:DB:1119:U:H6	1.54	0.71
23:BB:2461:A:H2'	23:BB:2462:C:C6	2.24	0.71
20:AB:67:LEU:H	20:AB:67:LEU:HD22	1.54	0.71
39:BR:6:GLN:HG2	39:BR:10:LYS:HE2	1.72	0.71
1:AA:1060:U:H5''	9:AJ:53:ILE:HG22	1.71	0.71
23:BB:2331:G:H4'	43:BW:69:GLU:HG2	1.70	0.71
41:BT:54:GLU:H	41:BT:91:GLN:NE2	1.86	0.71
13:CN:73:LEU:HD12	13:CN:83:VAL:HG21	1.70	0.71
23:DB:2039:U:H2'	23:DB:2040:G:H8	1.56	0.71
23:BB:2147:A:C5'	23:BB:2148:G:H5'	2.19	0.71
23:BB:532:A:H4'	23:BB:533:G:C8	2.25	0.71
1:AA:545:C:O2'	1:AA:546:A:H5'	1.90	0.71
30:BH:8:LYS:HD3	30:BH:8:LYS:O	1.90	0.71
4:AE:105:ILE:HB	4:AE:123:LEU:HA	1.70	0.71
1:CA:1361:G:H2'	1:CA:1362:A:H5''	1.73	0.71
25:DC:68:ARG:HH22	25:DC:127:ASN:HA	1.54	0.71
48:D1:47:ILE:HG22	48:D1:48:TYR:N	2.03	0.71
34:BM:71:LYS:HD3	34:BM:92:TRP:C	2.09	0.71
39:DR:18:GLN:HA	39:DR:99:THR:HA	1.73	0.71
51:B4:25:VAL:HB	51:B4:33:HIS:O	1.90	0.71
23:BB:543:G:C2'	23:BB:544:C:H5''	2.19	0.71
26:BD:52:THR:HG22	26:BD:75:ALA:HB1	1.73	0.71
25:BC:20:ASN:HB2	25:BC:203:VAL:HG13	1.72	0.71
11:CL:98:ARG:HB3	11:CL:116:TYR:HA	1.71	0.71
23:DB:1175:A:C2'	23:DB:1176:U:H5'	2.19	0.71
23:DB:643:A:H61	23:DB:2370:G:H1'	1.55	0.71
23:DB:2461:A:H2'	23:DB:2462:C:C6	2.25	0.71
29:BG:175:LYS:HD3	29:BG:176:LYS:HB2	1.72	0.71
48:B1:31:GLU:HG3	48:B1:32:LYS:H	1.54	0.71
1:AA:120:A:H2'	1:AA:121:U:H5''	1.70	0.71
52:BI:89:SER:HA	52:BI:97:VAL:HG21	1.72	0.71
28:DF:7:TYR:O	28:DF:11:VAL:HB	1.90	0.71
23:DB:856:G:C4'	43:DW:23:LYS:HD2	2.19	0.71
23:DB:2784:U:H4'	26:DD:42:ASN:H	1.54	0.71
26:DD:37:VAL:HG11	26:DD:46:ARG:HD3	1.72	0.71
33:BL:78:ARG:H	33:BL:110:VAL:HG13	1.55	0.71
21:CU:15:LEU:HA	21:CU:17:ARG:HH11	1.56	0.71
3:CD:63:ILE:HG23	3:CD:64:TYR:CD1	2.24	0.71
26:BD:128:ARG:HA	26:BD:128:ARG:HE	1.55	0.71
52:DI:73:PRO:HG2	52:DI:78:LEU:HD21	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:41:ASN:HD22	20:AB:44:LYS:HB2	1.53	0.71
3:AD:154:VAL:HG13	3:AD:155:LYS:H	1.55	0.71
23:DB:438:G:H2'	23:DB:439:A:H8	1.56	0.71
23:DB:11:C:H2'	23:DB:12:U:H5'	1.72	0.71
23:DB:448:U:H3'	27:DE:79:ARG:HH21	1.55	0.71
1:CA:559:A:H4'	1:CA:560:A:H3'	1.73	0.71
23:DB:483:A:H2'	23:DB:484:C:H5'	1.70	0.71
22:DA:76:G:H2'	22:DA:77:U:H6	1.54	0.71
25:DC:127:ASN:HD22	25:DC:128:THR:N	1.87	0.71
38:DQ:46:TYR:HA	39:DR:77:PHE:HD2	1.56	0.71
50:B3:44:ARG:HG3	50:B3:45:PRO:HD2	1.73	0.71
33:BL:60:ARG:HA	33:BL:60:ARG:NH1	2.06	0.71
45:BY:9:THR:HG23	45:BY:10:ARG:H	1.55	0.71
23:DB:1395:A:H4'	23:DB:1397:U:C5	2.26	0.71
41:BT:88:LYS:HG2	41:BT:89:GLU:N	2.04	0.71
26:DD:6:GLY:HA2	26:DD:199:SER:O	1.90	0.71
33:DL:77:ILE:HD13	33:DL:110:VAL:N	2.05	0.71
21:CU:14:ALA:H	21:CU:16:ARG:NH2	1.89	0.71
23:DB:1060:U:C4	23:DB:1088:A:N6	2.58	0.71
5:CF:38:ARG:HH21	5:CF:63:ASN:ND2	1.88	0.71
45:DY:3:THR:HA	45:DY:37:ARG:H	1.56	0.71
1:CA:1009:U:H1'	1:CA:1021:A:N1	2.05	0.71
1:CA:8:A:H1'	4:CE:107:GLY:HA2	1.71	0.71
23:DB:480:A:O4'	42:DU:40:LEU:HD22	1.89	0.71
9:CJ:66:GLU:HB2	13:CN:98:ALA:HB2	1.72	0.71
1:AA:275:G:H5'	16:AQ:15:LYS:HG2	1.72	0.71
17:CR:51:GLN:HA	17:CR:54:LEU:HD13	1.71	0.71
23:BB:1797:G:O3'	25:BC:253:GLY:HA2	1.91	0.71
1:AA:1049:U:H2'	13:AN:2:LYS:HD3	1.70	0.71
23:BB:1395:A:H4'	23:BB:1397:U:C5	2.26	0.71
28:BF:12:VAL:HG13	28:BF:27:VAL:HG11	1.71	0.71
1:CA:84:U:O2'	1:CA:85:U:H5'	1.89	0.71
6:CG:14:ASP:HB3	6:CG:18:GLY:N	2.06	0.71
39:BR:74:ILE:HA	39:BR:90:ARG:NE	2.03	0.71
25:BC:28:PRO:O	25:BC:29:PHE:HB3	1.90	0.71
49:B2:13:ASN:HB2	49:B2:18:PHE:HD2	1.56	0.71
26:DD:125:TRP:HD1	26:DD:127:PHE:HB2	1.56	0.71
1:AA:8:A:H2'	3:AD:205:LYS:O	1.91	0.71
1:AA:1208:C:H2'	1:AA:1209:C:O4'	1.91	0.71
1:AA:492:C:H2'	1:AA:493:A:H5''	1.71	0.71
23:DB:1324:G:H1'	23:DB:1616:A:N6	2.05	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:616:A:H3'	23:DB:617:G:H8	1.54	0.71
29:BG:94:ARG:HB2	29:BG:94:ARG:HH11	1.55	0.71
23:DB:363:G:H2'	23:DB:364:C:C6	2.25	0.71
41:DT:49:LYS:O	41:DT:50:LEU:HG	1.90	0.71
3:CD:101:VAL:HG13	3:CD:106:PHE:HD2	1.54	0.71
51:B4:33:HIS:CD2	51:B4:33:HIS:H	2.07	0.71
51:B4:7:VAL:HG12	51:B4:8:LYS:H	1.54	0.71
33:BL:100:ILE:HG12	33:BL:102:GLY:H	1.55	0.71
26:BD:31:ALA:HB1	26:BD:49:GLN:HG3	1.73	0.71
43:BW:19:ARG:NH2	43:BW:71:LYS:HD3	2.06	0.71
23:BB:1429:G:H2'	23:BB:1430:G:H8	1.55	0.71
35:BN:35:LYS:HA	35:BN:111:ALA:O	1.91	0.71
28:DF:59:ILE:O	28:DF:59:ILE:HD13	1.90	0.71
12:AM:64:VAL:HG12	12:AM:65:GLU:H	1.54	0.71
22:BA:48:U:H2'	22:BA:49:C:H6	1.56	0.71
1:AA:17:U:H2'	1:AA:18:C:H6	1.55	0.71
23:DB:1080:A:H2'	23:DB:1081:U:C6	2.25	0.71
1:AA:1250:A:H4'	8:AI:69:GLY:H	1.56	0.71
23:BB:1041:G:H2'	23:BB:1042:G:C8	2.25	0.71
1:AA:1284:C:H3'	1:AA:1285:A:H5''	1.72	0.71
1:AA:188:C:H2'	1:AA:189:A:O4'	1.90	0.71
50:D3:4:LYS:HD2	50:D3:59:ALA:HA	1.72	0.71
1:AA:559:A:H4'	1:AA:560:A:H3'	1.73	0.71
23:BB:1173:U:C4	23:BB:1174:U:H1'	2.26	0.71
10:AK:42:GLY:HA3	10:AK:73:VAL:HG22	1.71	0.71
28:BF:31:GLU:H	28:BF:157:THR:HA	1.54	0.71
19:CT:19:HIS:O	19:CT:23:ARG:HG2	1.91	0.71
23:DB:1700:A:H2'	23:DB:1701:A:H5'	1.72	0.71
28:DF:31:GLU:HG3	28:DF:158:THR:HG22	1.71	0.71
23:DB:455:C:N3	23:DB:472:A:H2'	2.06	0.71
6:AG:38:ALA:O	6:AG:41:ILE:HG22	1.91	0.71
40:DS:74:ILE:HG22	40:DS:105:VAL:HG23	1.72	0.71
37:BP:29:VAL:HG22	37:BP:47:ILE:HD11	1.72	0.71
25:BC:107:LYS:HB2	25:BC:194:VAL:CG1	2.20	0.71
33:BL:13:LYS:HG3	33:BL:14:LYS:N	2.01	0.71
23:BB:2575:C:C5'	26:BD:149:ASN:H	2.04	0.71
41:DT:29:THR:HB	41:DT:86:THR:HA	1.72	0.71
38:BQ:93:ILE:HG23	38:BQ:94:LEU:H	1.55	0.71
23:DB:972:A:C3'	23:DB:973:A:H5''	2.21	0.71
40:DS:17:VAL:O	40:DS:20:VAL:HG12	1.90	0.71
20:CB:139:GLU:O	20:CB:143:LEU:HB2	1.91	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:21:ILE:HG22	12:AM:64:VAL:HG11	1.72	0.71
23:BB:1439:A:N1	23:BB:1552:A:N7	2.39	0.71
23:BB:452:G:OP1	27:BE:52:VAL:HG22	1.90	0.71
50:D3:4:LYS:NZ	50:D3:60:CYS:H	1.89	0.71
23:DB:242:G:N2	23:DB:254:G:H2'	2.06	0.71
20:CB:62:ARG:H	20:CB:62:ARG:HD2	1.56	0.71
1:CA:1186:G:H21	13:CN:100:TRP:C	1.93	0.71
5:CF:79:ARG:HH22	5:CF:87:SER:HB3	1.56	0.71
23:DB:380:G:O2'	46:DZ:13:THR:HB	1.90	0.71
41:BT:93:LEU:HD22	41:BT:93:LEU:H	1.56	0.71
8:AI:23:GLY:H	8:AI:60:LEU:HA	1.54	0.71
23:BB:1203:U:H3'	23:BB:1204:A:H5''	1.71	0.71
23:BB:1813:G:H21	25:BC:51:ARG:CG	2.04	0.71
23:BB:2393:U:H5'	33:BL:62:PRO:HD3	1.73	0.71
33:BL:60:ARG:HH11	50:B3:11:LYS:HE2	1.53	0.71
23:DB:2874:C:OP1	35:DN:5:LYS:HD2	1.91	0.71
41:DT:60:THR:HA	41:DT:82:LYS:O	1.90	0.71
1:CA:1218:C:H2'	1:CA:1219:A:C8	2.26	0.71
45:DY:40:THR:HG23	45:DY:43:ILE:HG22	1.73	0.71
1:CA:1097:C:H2'	1:CA:1098:C:C6	2.26	0.71
23:DB:1439:A:N1	23:DB:1552:A:N7	2.39	0.71
1:AA:279:A:H5''	1:AA:280:C:H3'	1.72	0.71
1:CA:560:A:H5'	1:CA:566:G:N2	2.05	0.71
23:DB:1028:A:H2'	23:DB:1029:A:C8	2.26	0.71
1:CA:859:G:H2'	1:CA:860:A:C8	2.25	0.71
23:BB:1951:U:H2'	23:BB:1953:A:OP2	1.91	0.71
23:DB:96:C:H4'	44:DX:41:HIS:CE1	2.26	0.71
43:DW:66:VAL:HG22	43:DW:67:LYS:N	2.06	0.71
25:BC:68:ARG:HD3	25:BC:103:ILE:HD11	1.72	0.71
31:BJ:99:ARG:HA	31:BJ:103:ILE:HG13	1.73	0.71
36:BO:21:LEU:O	36:BO:42:PRO:HB3	1.91	0.71
36:BO:48:LEU:HD23	36:BO:49:VAL:N	2.06	0.71
33:BL:78:ARG:NH2	33:BL:82:LEU:HB2	2.06	0.71
47:B0:29:VAL:HB	47:B0:36:LYS:HD2	1.73	0.71
30:DH:94:ILE:HG23	30:DH:98:ASP:CB	2.20	0.71
23:BB:1060:U:C4	23:BB:1088:A:N6	2.58	0.71
3:CD:34:GLU:O	3:CD:35:GLN:HG3	1.91	0.71
23:BB:414:C:H2'	23:BB:415:A:C8	2.25	0.71
23:DB:860:U:O2'	23:DB:2267:A:H4'	1.91	0.71
23:BB:1485:U:H2'	23:BB:1486:U:C6	2.26	0.71
23:DB:950:G:H2'	23:DB:951:C:H6	1.54	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1700:A:H2'	23:BB:1701:A:H5'	1.72	0.71
23:DB:1594:U:H2'	23:DB:1595:C:C6	2.25	0.71
15:AP:20:VAL:HG23	15:AP:35:ARG:HA	1.71	0.71
29:DG:39:ALA:HB1	29:DG:54:ARG:H	1.56	0.71
29:BG:71:LEU:HA	29:BG:74:MET:SD	2.31	0.71
9:CJ:32:THR:HG23	9:CJ:33:GLY:H	1.56	0.71
23:BB:2039:U:H2'	23:BB:2040:G:H8	1.56	0.71
4:AE:155:LYS:HG3	7:AH:65:PHE:HB2	1.73	0.71
20:AB:69:VAL:O	20:AB:163:ILE:HG22	1.91	0.70
51:D4:34:LYS:HE2	51:D4:36:ARG:HH22	1.55	0.70
25:BC:87:SER:O	25:BC:157:ALA:HB2	1.90	0.70
39:DR:79:ARG:HD3	39:DR:81:LYS:HG3	1.72	0.70
23:BB:2041:U:H2'	23:BB:2042:A:C8	2.25	0.70
40:BS:28:LYS:HD3	40:BS:71:VAL:HG21	1.72	0.70
27:BE:151:GLY:O	27:BE:190:ALA:HB2	1.90	0.70
1:CA:764:C:H3'	1:CA:765:G:N2	2.06	0.70
23:BB:2147:A:H5'	23:BB:2148:G:C5'	2.20	0.70
36:BO:16:ARG:NE	36:BO:16:ARG:HA	2.06	0.70
23:BB:279:A:H61	23:BB:361:G:H1'	1.54	0.70
22:BA:49:C:H2'	22:BA:50:A:C8	2.26	0.70
23:BB:2037:A:H2'	23:BB:2038:G:C8	2.26	0.70
23:DB:864:G:O2'	23:DB:865:C:H5'	1.91	0.70
7:CH:31:LEU:HG	7:CH:35:ILE:HD11	1.73	0.70
3:AD:10:LEU:HD21	3:AD:62:ARG:HD3	1.73	0.70
11:AL:87:LYS:HZ3	11:AL:87:LYS:HA	1.56	0.70
23:BB:2537:U:H2'	23:BB:2538:C:C6	2.25	0.70
23:DB:1203:U:H3'	23:DB:1204:A:H5''	1.73	0.70
30:BH:90:LEU:HD21	30:BH:146:VAL:HG11	1.72	0.70
23:BB:855:G:H21	43:BW:23:LYS:CB	2.03	0.70
50:B3:24:LYS:HZ3	50:B3:29:ARG:HH22	1.38	0.70
34:BM:73:ILE:HD13	34:BM:92:TRP:H	1.56	0.70
50:D3:51:LYS:HA	50:D3:51:LYS:HZ2	1.56	0.70
31:DJ:35:ARG:HB3	31:DJ:54:ILE:HD11	1.72	0.70
13:CN:51:PRO:HG2	13:CN:52:ARG:H	1.56	0.70
41:BT:61:LEU:HD12	41:BT:62:VAL:H	1.56	0.70
23:DB:28:A:N6	23:DB:512:G:O2'	2.24	0.70
23:BB:1060:U:C5	52:BI:131:THR:HG22	2.25	0.70
4:CE:87:VAL:HG22	4:CE:88:HIS:H	1.55	0.70
1:AA:1241:G:H2'	1:AA:1242:G:H8	1.57	0.70
2:AC:69:THR:HG21	2:AC:75:VAL:HG21	1.73	0.70
42:DU:43:LYS:HG2	42:DU:57:ILE:HB	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:878:A:H5''	7:AH:80:PRO:HG2	1.74	0.70
52:BI:89:SER:HB2	52:BI:136:GLY:HA3	1.73	0.70
1:AA:560:A:H5'	1:AA:566:G:N2	2.06	0.70
23:DB:2306:C:H3'	23:DB:2307:G:H5''	1.72	0.70
23:BB:1469:A:H2'	23:BB:1470:A:C8	2.25	0.70
23:DB:350:G:H2'	23:DB:351:C:O4'	1.91	0.70
3:CD:187:ARG:HH12	3:CD:191:SER:HA	1.55	0.70
4:AE:114:LEU:HD22	4:AE:119:VAL:HG21	1.73	0.70
43:DW:42:THR:H	43:DW:65:LYS:HG2	1.57	0.70
26:DD:61:THR:HG23	26:DD:62:LYS:H	1.54	0.70
25:DC:164:VAL:HG23	25:DC:167:ASP:HB2	1.71	0.70
5:AF:53:LYS:HD3	5:AF:54:LEU:N	2.04	0.70
18:AS:4:LEU:C	18:AS:5:LYS:HE3	2.12	0.70
12:CM:52:ILE:HA	12:CM:55:LEU:HD12	1.72	0.70
23:DB:2037:A:H2'	23:DB:2038:G:C8	2.26	0.70
1:CA:451:A:H4'	1:CA:452:A:O4'	1.91	0.70
25:BC:10:PRO:HD2	25:BC:202:ARG:HH12	1.57	0.70
51:D4:30:GLU:HB3	51:D4:33:HIS:HB2	1.72	0.70
23:BB:1182:G:H2'	23:BB:1183:U:O4'	1.90	0.70
1:CA:1238:A:H5'	1:CA:1336:C:N4	2.04	0.70
23:DB:1951:U:H2'	23:DB:1953:A:OP2	1.91	0.70
23:DB:2557:G:H2'	23:DB:2558:C:C6	2.27	0.70
23:BB:131:A:H2'	23:BB:132:G:H8	1.57	0.70
48:D1:40:PRO:HD2	48:D1:44:GLN:O	1.90	0.70
23:BB:2483:C:H4'	34:BM:51:ARG:HH12	1.56	0.70
23:BB:2197:U:O2'	23:BB:2198:A:H2'	1.91	0.70
23:DB:98:G:H3'	23:DB:99:U:H5''	1.71	0.70
27:DE:143:LEU:HD22	27:DE:143:LEU:N	2.06	0.70
46:BZ:15:SER:HB2	46:BZ:25:ARG:NH1	2.06	0.70
34:BM:33:LEU:N	34:BM:101:VAL:HG22	2.06	0.70
34:BM:70:ASP:H	34:BM:71:LYS:NZ	1.90	0.70
26:BD:154:LYS:C	26:BD:156:PHE:H	1.94	0.70
35:BN:24:MET:HE3	35:BN:44:LEU:HD22	1.74	0.70
31:BJ:41:LYS:HD2	31:BJ:44:TYR:HB2	1.73	0.70
26:DD:108:ASP:HB2	26:DD:204:LYS:HB2	1.74	0.70
37:DP:76:HIS:CD2	37:DP:76:HIS:N	2.60	0.70
23:DB:1190:G:OP1	33:DL:39:LYS:N	2.24	0.70
28:DF:102:LEU:O	28:DF:107:VAL:HB	1.91	0.70
29:BG:19:ASN:HB3	29:BG:22:VAL:HG13	1.72	0.70
4:AE:101:GLY:H	4:AE:121:ASN:HD21	1.39	0.70
23:BB:1082:U:C4	23:BB:1086:A:C2	2.80	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DU:71:ILE:HD12	42:DU:102:ILE:HD12	1.74	0.70
23:BB:287:G:H2'	23:BB:288:U:H6	1.55	0.70
29:BG:40:VAL:HB	29:BG:63:GLN:HE22	1.57	0.70
25:DC:28:PRO:HG2	25:DC:79:ARG:NE	2.06	0.70
23:DB:2537:U:H2'	23:DB:2538:C:C6	2.26	0.70
23:BB:2228:G:H2'	23:BB:2229:U:C6	2.26	0.70
37:DP:23:ASP:HA	37:DP:49:ILE:HG22	1.73	0.70
23:BB:85:G:C5'	42:BU:28:LEU:HA	2.17	0.70
50:B3:29:ARG:HA	50:B3:33:THR:CG2	2.22	0.70
24:BV:80:HIS:HD2	24:BV:83:LYS:H	1.39	0.70
16:AQ:76:ARG:NE	16:AQ:78:VAL:HG22	2.04	0.70
23:DB:1794:A:H2'	23:DB:1795:C:H6	1.57	0.70
23:BB:990:A:H1'	23:BB:1156:A:C2	2.26	0.70
41:BT:62:VAL:O	41:BT:63:VAL:HG12	1.90	0.70
1:CA:865:A:H5'	1:CA:1078:U:O4	1.92	0.70
21:CU:36:PHE:HB2	21:CU:39:LYS:HB2	1.74	0.70
2:AC:5:HIS:HD2	2:AC:8:GLY:H	1.39	0.70
23:BB:191:A:H2'	23:BB:192:C:C6	2.26	0.70
1:CA:545:C:O2'	1:CA:546:A:H5'	1.90	0.70
25:DC:29:PHE:HD1	25:DC:29:PHE:O	1.73	0.70
23:BB:1594:U:H2'	23:BB:1595:C:C6	2.26	0.70
40:BS:18:ARG:HH12	40:BS:25:ARG:HH22	1.38	0.70
10:CK:28:ASN:HD21	10:CK:47:GLY:H	1.39	0.70
47:D0:10:SER:O	47:D0:14:MET:HB2	1.91	0.70
22:DA:61:G:H2'	22:DA:62:C:H6	1.55	0.70
25:BC:172:THR:HG22	25:BC:173:LEU:H	1.54	0.70
31:DJ:60:ASP:HB3	31:DJ:126:ALA:HB1	1.73	0.70
10:CK:16:SER:CA	10:CK:78:ILE:HA	2.20	0.70
3:CD:94:GLU:HG2	3:CD:185:PRO:HG3	1.73	0.70
29:BG:28:LYS:HD3	29:BG:79:THR:HA	1.72	0.70
23:BB:2216:G:H2'	23:BB:2217:G:C8	2.26	0.70
23:BB:1826:G:OP2	25:BC:221:GLY:HA2	1.90	0.70
23:DB:596:U:H2'	23:DB:597:G:C8	2.26	0.70
13:AN:74:ARG:HD3	13:AN:74:ARG:O	1.90	0.70
9:CJ:11:LYS:HB2	9:CJ:97:ASP:HB3	1.74	0.70
30:DH:50:ARG:HG3	30:DH:51:ARG:N	2.06	0.70
23:DB:1099:G:H4'	52:DI:4:VAL:HB	1.73	0.70
25:DC:141:HIS:CB	25:DC:190:THR:HB	2.22	0.70
24:BV:80:HIS:HD2	24:BV:82:TYR:H	1.37	0.70
35:DN:2:ARG:HH11	35:DN:2:ARG:HG2	1.57	0.70
36:DO:35:ILE:HG12	36:DO:106:LEU:HD12	1.74	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DO:38:GLN:HA	36:DO:50:ALA:HB3	1.72	0.70
43:BW:17:ALA:HA	43:BW:35:ILE:O	1.92	0.70
23:DB:2684:U:OP1	37:DP:59:THR:HB	1.91	0.70
1:CA:17:U:H2'	1:CA:18:C:H6	1.56	0.70
47:D0:26:SER:HB2	47:D0:38:LEU:HD21	1.74	0.70
23:DB:2246:G:H2'	23:DB:2247:A:C8	2.27	0.70
14:AO:88:ARG:HG3	23:BB:716:A:OP1	1.91	0.70
23:DB:570:G:H2'	23:DB:2030:A:N7	2.05	0.70
23:BB:181:A:H2'	23:BB:182:A:H8	1.56	0.70
23:BB:1015:U:H2'	23:BB:1016:G:H8	1.57	0.70
23:DB:1178:C:H2'	23:DB:1179:G:C8	2.27	0.70
27:BE:106:LYS:HB2	27:BE:106:LYS:NZ	2.07	0.70
39:BR:18:GLN:HB3	39:BR:99:THR:HA	1.73	0.70
30:DH:8:LYS:HE2	30:DH:9:VAL:H	1.56	0.70
25:DC:144:GLU:HB2	25:DC:187:CYS:HB2	1.73	0.70
1:AA:1219:A:H2'	1:AA:1220:G:C8	2.27	0.70
30:BH:17:ASP:OD2	30:BH:21:VAL:HB	1.92	0.70
46:DZ:5:ILE:HG13	46:DZ:51:VAL:HG13	1.73	0.70
38:BQ:92:LYS:HA	38:BQ:95:ALA:HB2	1.72	0.70
38:BQ:92:LYS:CG	38:BQ:93:ILE:N	2.54	0.70
5:CF:38:ARG:HD3	5:CF:97:THR:HA	1.73	0.70
1:AA:1238:A:H5'	1:AA:1336:C:H41	1.55	0.70
39:DR:70:GLU:HG3	39:DR:71:LYS:HG2	1.73	0.70
23:BB:929:U:H5'	45:BY:37:ARG:NH1	2.07	0.70
23:DB:2597:G:H5''	25:DC:239:PHE:HB2	1.74	0.70
34:BM:23:GLY:N	34:BM:96:ILE:HD12	2.06	0.70
23:DB:1794:A:H2'	23:DB:1795:C:C6	2.26	0.70
41:DT:17:SER:H	41:DT:20:ALA:HB3	1.55	0.70
8:AI:40:ARG:N	8:AI:44:ARG:HE	1.88	0.70
1:CA:1342:C:H5'	8:CI:127:SER:HB3	1.72	0.70
1:CA:1007:U:H2'	1:CA:1008:U:C6	2.27	0.70
23:BB:2297:A:H61	23:BB:2319:G:H3'	1.54	0.70
39:DR:96:VAL:HG12	39:DR:98:ILE:HG12	1.72	0.70
23:BB:2834:G:H1'	23:BB:2883:A:N6	2.06	0.70
23:DB:1113:U:H5'	29:DG:2:ARG:HG2	1.72	0.70
1:CA:960:U:O2'	1:CA:961:U:OP2	2.09	0.70
23:BB:1794:A:H2'	23:BB:1795:C:H6	1.57	0.70
23:BB:1794:A:H2'	23:BB:1795:C:C6	2.26	0.70
1:AA:1289:A:H2'	1:AA:1290:G:H5'	1.74	0.70
17:AR:58:ILE:O	17:AR:62:ARG:HG3	1.92	0.70
46:BZ:69:SER:O	46:BZ:70:LYS:HB2	1.91	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:188:C:H2'	1:CA:189:A:O4'	1.90	0.70
18:CS:48:ILE:O	18:CS:59:VAL:HG22	1.90	0.70
22:BA:98:G:H1	24:BV:14:LYS:HB2	1.55	0.70
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.26	0.70
1:CA:1216:A:OP1	13:CN:2:LYS:HE2	1.91	0.70
42:BU:25:LYS:HG2	42:BU:35:VAL:HG22	1.74	0.70
3:AD:2:ARG:NH1	3:AD:114:ARG:HD2	2.05	0.70
41:DT:68:LYS:HB2	41:DT:68:LYS:NZ	2.07	0.70
23:DB:969:G:H2'	23:DB:970:U:C6	2.26	0.70
31:DJ:84:ILE:CD1	31:DJ:85:LYS:H	2.04	0.70
43:BW:36:ILE:HB	43:BW:68:PHE:HD2	1.57	0.70
23:DB:28:A:H61	23:DB:512:G:H1'	1.57	0.70
32:DK:110:GLU:HA	32:DK:113:MET:HG2	1.74	0.70
23:DB:1064:C:C4'	52:DI:90:GLY:HA2	2.21	0.70
23:DB:1485:U:H2'	23:DB:1486:U:C6	2.26	0.70
1:CA:939:G:H5''	6:CG:101:ARG:NH1	2.06	0.70
23:BB:2557:G:H2'	23:BB:2558:C:C6	2.27	0.70
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.55	0.70
3:AD:25:ARG:HD3	3:AD:26:ALA:H	1.56	0.70
24:BV:40:ILE:HD13	24:BV:40:ILE:H	1.56	0.70
25:DC:63:ILE:HG21	25:DC:90:ILE:CD1	2.22	0.69
23:DB:336:C:H5''	42:DU:3:LYS:NZ	2.06	0.69
16:AQ:10:ARG:HH11	16:AQ:55:GLY:H	1.37	0.69
23:BB:1188:U:H4'	39:BR:83:TYR:HB2	1.74	0.69
26:BD:119:ALA:HA	26:BD:123:LYS:NZ	2.06	0.69
23:BB:2270:A:H4'	43:BW:18:LYS:CG	2.21	0.69
23:DB:1346:G:O2'	23:DB:1347:A:H5'	1.92	0.69
14:AO:11:VAL:HG23	14:AO:26:VAL:HG11	1.72	0.69
20:CB:8:MET:SD	20:CB:9:LEU:HD22	2.32	0.69
23:BB:150:U:H2'	23:BB:151:C:C6	2.27	0.69
37:DP:31:VAL:HG13	37:DP:81:ASP:HB3	1.73	0.69
46:DZ:47:LYS:HB2	46:DZ:51:VAL:HG12	1.74	0.69
35:BN:33:ILE:HD13	35:BN:33:ILE:H	1.56	0.69
23:DB:920:A:H2'	23:DB:921:C:C6	2.27	0.69
23:DB:2636:C:H5'	26:DD:80:TRP:HZ2	1.57	0.69
37:BP:32:VAL:HG13	37:BP:40:GLN:HE21	1.57	0.69
35:BN:4:ARG:HD2	35:BN:5:LYS:H	1.56	0.69
23:BB:2619:C:H5'	26:BD:157:LYS:CE	2.21	0.69
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.73	0.69
29:DG:155:PRO:CB	29:DG:171:LYS:HB3	2.21	0.69
7:CH:55:LYS:NZ	7:CH:55:LYS:HA	2.07	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CQ:19:SER:O	16:CQ:20:ILE:HD12	1.93	0.69
1:CA:279:A:H5''	1:CA:280:C:H3'	1.72	0.69
40:DS:73:LYS:HD3	40:DS:74:ILE:N	2.06	0.69
23:DB:172:A:H2'	23:DB:173:A:C8	2.27	0.69
23:DB:522:A:H2'	23:DB:523:C:C6	2.27	0.69
14:AO:87:ARG:HA	14:AO:87:ARG:NH1	2.07	0.69
43:BW:10:ARG:HB3	43:BW:10:ARG:HH11	1.57	0.69
23:DB:2147:A:H4'	23:DB:2148:G:H8	1.57	0.69
23:DB:1098:A:H2'	52:DI:4:VAL:CA	2.22	0.69
23:BB:38:A:H2'	23:BB:39:G:O4'	1.92	0.69
51:D4:1:MET:HB3	51:D4:2:LYS:HD3	1.74	0.69
26:BD:11:MET:SD	37:BP:9:GLN:HG2	2.32	0.69
1:CA:1320:C:N3	18:CS:35:ARG:HD3	2.06	0.69
27:BE:146:VAL:O	27:BE:184:ASP:HB2	1.92	0.69
23:DB:151:C:H2'	23:DB:152:A:C8	2.27	0.69
23:BB:1406:U:H2'	23:BB:1407:G:C8	2.27	0.69
23:BB:150:U:H2'	23:BB:151:C:H6	1.56	0.69
34:BM:133:LYS:O	34:BM:133:LYS:HE3	1.93	0.69
1:AA:473:U:H2'	1:AA:474:G:H8	1.58	0.69
23:BB:1373:A:H2'	23:BB:1374:G:O4'	1.92	0.69
2:CC:39:ARG:HH22	13:CN:91:GLU:HB3	1.58	0.69
28:DF:162:ASP:O	28:DF:166:ARG:HG3	1.92	0.69
27:DE:83:VAL:O	27:DE:84:THR:HG22	1.92	0.69
37:BP:18:SER:HA	37:BP:87:ARG:NH2	2.07	0.69
25:BC:164:VAL:HB	25:BC:167:ASP:OD1	1.92	0.69
23:DB:2834:G:H1'	23:DB:2883:A:N6	2.06	0.69
31:BJ:68:LYS:HA	31:BJ:71:ASP:OD1	1.93	0.69
36:BO:41:ALA:HB1	36:BO:42:PRO:HD2	1.74	0.69
41:DT:66:LYS:N	41:DT:76:ARG:HH21	1.87	0.69
40:BS:7:HIS:HB2	40:BS:103:ILE:HG22	1.72	0.69
51:B4:24:ARG:HA	51:B4:34:LYS:O	1.93	0.69
23:DB:2636:C:H5'	26:DD:80:TRP:CZ2	2.28	0.69
26:DD:30:GLU:HG2	26:DD:94:GLN:NE2	2.07	0.69
21:AU:36:PHE:HB3	21:AU:40:PRO:CD	2.21	0.69
37:BP:2:ASN:N	37:BP:2:ASN:HD22	1.89	0.69
1:CA:1508:A:H2'	1:CA:1509:C:H6	1.56	0.69
20:AB:59:ILE:HD12	20:AB:60:ALA:N	2.07	0.69
1:AA:413:G:O6	3:AD:32:LYS:HE3	1.93	0.69
23:DB:2578:G:O2'	26:DD:138:LEU:HD13	1.93	0.69
24:DV:21:ARG:HE	24:DV:87:GLN:HA	1.57	0.69
41:BT:64:LYS:HD2	41:BT:77:ARG:HD3	1.75	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:46:LYS:N	42:BU:47:PRO:HD3	2.08	0.69
12:CM:92:ARG:CZ	12:CM:92:ARG:HA	2.22	0.69
27:DE:136:GLN:O	27:DE:139:LYS:HG2	1.93	0.69
27:DE:163:ASN:H	27:DE:168:ASP:HA	1.58	0.69
48:D1:45:HIS:O	48:D1:46:VAL:HG12	1.92	0.69
41:DT:56:GLU:HG2	41:DT:57:VAL:HG13	1.75	0.69
23:BB:45:G:C5'	23:BB:46:G:H5'	2.22	0.69
25:DC:53:ILE:HG12	25:DC:218:THR:HA	1.74	0.69
1:AA:1432:G:OP1	37:BP:105:LYS:HB2	1.93	0.69
24:BV:77:VAL:HA	24:BV:89:ILE:HG22	1.74	0.69
23:BB:2469:A:H4'	34:BM:55:ARG:HG3	1.75	0.69
37:BP:77:SER:H	37:BP:78:PRO:CD	2.06	0.69
22:BA:6:G:H2'	22:BA:7:G:C8	2.27	0.69
11:CL:51:VAL:HG12	11:CL:52:CYS:H	1.57	0.69
25:BC:170:TYR:O	25:BC:171:VAL:HG13	1.91	0.69
50:B3:26:ALA:HB1	50:B3:29:ARG:HG2	1.73	0.69
32:BK:85:VAL:HG11	32:BK:115:ILE:HD12	1.74	0.69
34:BM:69:PRO:HB2	34:BM:71:LYS:NZ	2.08	0.69
16:AQ:11:VAL:HA	16:AQ:22:VAL:HG22	1.73	0.69
39:BR:79:ARG:HD3	39:BR:86:GLN:NE2	2.08	0.69
38:BQ:96:ASP:O	38:BQ:99:VAL:HG22	1.92	0.69
47:B0:30:ASP:OD1	47:B0:31:LYS:HD2	1.93	0.69
23:DB:2017:U:O2	47:D0:6:LYS:HG3	1.92	0.69
15:AP:5:ARG:HD2	15:AP:5:ARG:H	1.57	0.69
10:CK:85:VAL:HG21	10:CK:92:ARG:HH12	1.58	0.69
23:BB:2645:G:H3'	23:BB:2646:C:C5'	2.23	0.69
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.28	0.69
23:BB:596:U:H2'	23:BB:597:G:C8	2.27	0.69
1:AA:270:A:H2'	1:AA:271:C:H6	1.57	0.69
38:BQ:102:LYS:H	38:BQ:102:LYS:HD2	1.58	0.69
23:DB:1552:A:H2'	23:DB:1553:A:H5'	1.73	0.69
27:BE:98:LYS:HG3	27:BE:99:LYS:H	1.56	0.69
23:BB:2241:A:H2'	23:BB:2242:G:H8	1.57	0.69
23:DB:1309:G:H5'	49:D2:8:SER:H	1.58	0.69
1:AA:1048:G:H4'	13:AN:2:LYS:NZ	2.07	0.69
23:BB:2037:A:H2'	23:BB:2038:G:H8	1.58	0.69
5:AF:86:ARG:HH11	17:AR:63:TYR:HB3	1.57	0.69
1:AA:60:A:H4'	1:AA:61:G:O5'	1.92	0.69
31:BJ:6:ALA:O	31:BJ:8:PRO:HD3	1.93	0.69
1:CA:832:G:O2'	1:CA:833:G:H5'	1.92	0.69
20:AB:76:SER:O	20:AB:79:VAL:HG12	1.93	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2804:U:H2'	23:BB:2805:C:C6	2.28	0.69
27:DE:46:GLN:NE2	27:DE:86:ALA:HB3	2.07	0.69
36:DO:15:ARG:HH12	43:DW:76:ARG:NE	1.91	0.69
25:BC:141:HIS:CD2	25:BC:193:GLU:H	2.11	0.69
30:DH:5:LEU:HD13	30:DH:35:LYS:HE3	1.74	0.69
31:DJ:135:GLN:HE21	31:DJ:138:GLN:H	1.40	0.69
1:AA:1218:C:H2'	1:AA:1219:A:C8	2.28	0.69
8:CI:118:ARG:NH2	8:CI:122:ARG:HE	1.90	0.69
51:B4:24:ARG:HH22	51:B4:36:ARG:CD	2.03	0.69
27:DE:15:SER:HB3	27:DE:196:VAL:HG22	1.74	0.69
23:DB:2645:G:H3'	23:DB:2646:C:C5'	2.22	0.69
1:AA:978:A:H5'	1:AA:1362:A:N6	2.08	0.69
23:DB:2229:U:H2'	23:DB:2230:G:C8	2.27	0.69
23:DB:1118:C:H2'	23:DB:1119:U:C6	2.27	0.69
23:DB:1866:A:H2'	23:DB:1867:G:O4'	1.93	0.69
22:DA:66:A:O2'	22:DA:67:G:H5''	1.93	0.69
2:CC:11:LEU:HD22	2:CC:17:TRP:HE1	1.58	0.69
23:DB:1098:A:OP2	52:DI:3:LYS:HG2	1.92	0.69
48:D1:29:LYS:HB2	48:D1:30:PRO:CD	2.18	0.69
30:BH:82:SER:N	30:BH:146:VAL:HG13	2.00	0.69
23:BB:1243:C:O2'	33:BL:15:ALA:HB3	1.92	0.69
25:BC:127:ASN:HD22	25:BC:128:THR:N	1.91	0.69
23:DB:2834:G:H1'	23:DB:2883:A:H61	1.58	0.69
31:DJ:124:VAL:HG23	31:DJ:125:TYR:N	2.07	0.69
20:AB:53:LEU:HA	20:AB:56:LEU:HD22	1.74	0.69
27:DE:108:ILE:HG13	27:DE:109:LEU:H	1.58	0.69
23:BB:1252:G:H1	38:BQ:36:GLN:HE22	1.39	0.69
8:AI:18:VAL:HG11	8:AI:82:ILE:HG12	1.75	0.69
25:BC:79:ARG:HH11	25:BC:80:LEU:H	1.38	0.69
1:AA:1060:U:H2'	1:AA:1061:G:H8	1.58	0.69
32:DK:64:ARG:HD2	32:DK:102:PRO:O	1.91	0.69
39:DR:3:ALA:O	39:DR:4:VAL:HG13	1.93	0.69
39:DR:49:ILE:HG13	39:DR:51:VAL:HG23	1.74	0.69
39:DR:22:LEU:HD12	39:DR:23:GLU:H	1.57	0.69
42:DU:91:LYS:HD3	42:DU:93:ARG:NE	2.07	0.69
1:CA:1096:C:H2'	1:CA:1097:C:C6	2.28	0.69
9:CJ:39:PRO:HA	9:CJ:74:VAL:HG22	1.74	0.69
1:CA:1281:C:H5'	1:CA:1282:C:H5	1.56	0.69
23:BB:1799:G:H4'	23:BB:1800:C:O5'	1.93	0.69
23:BB:437:U:H2'	23:BB:438:G:C8	2.27	0.69
1:AA:451:A:H4'	1:AA:452:A:O4'	1.91	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:682:G:H5'	49:D2:26:ASN:ND2	2.08	0.69
1:CA:412:A:H1'	1:CA:413:G:H8	1.57	0.69
31:BJ:28:LEU:HD23	31:BJ:29:ALA:N	2.08	0.69
46:DZ:25:ARG:HG3	46:DZ:26:SER:H	1.58	0.69
45:DY:7:THR:HA	45:DY:34:THR:HB	1.75	0.69
22:DA:22:U:H2'	22:DA:23:G:C8	2.28	0.69
1:CA:473:U:H2'	1:CA:474:G:H8	1.58	0.69
23:BB:2355:G:H4'	43:BW:20:LEU:HD22	1.75	0.69
23:BB:215:G:H4'	23:BB:216:A:H4'	1.75	0.69
23:DB:993:G:H21	39:DR:93:PHE:HZ	1.41	0.69
23:DB:1099:G:O5'	52:DI:4:VAL:HG12	1.92	0.69
42:BU:90:LYS:HZ2	42:BU:91:LYS:HE2	1.57	0.69
27:DE:115:GLN:HG3	27:DE:116:ASP:H	1.58	0.69
46:DZ:3:LYS:HG3	46:DZ:48:GLN:H	1.58	0.69
34:BM:100:LYS:O	34:BM:100:LYS:HD2	1.93	0.69
36:DO:7:ARG:O	36:DO:11:ALA:HB2	1.93	0.69
34:DM:5:LYS:HG3	34:DM:69:PRO:O	1.93	0.69
1:AA:131:A:H2'	1:AA:132:C:C6	2.28	0.69
47:B0:29:VAL:HG21	47:B0:41:HIS:ND1	2.08	0.69
10:AK:109:ILE:H	21:AU:5:VAL:HB	1.57	0.69
23:BB:743:A:O2'	23:BB:744:U:H5'	1.93	0.69
33:DL:64:PHE:HA	50:D3:11:LYS:HA	1.75	0.69
5:AF:3:HIS:HA	5:AF:65:GLU:HA	1.75	0.69
2:AC:9:ILE:HG23	2:AC:10:ARG:HG3	1.73	0.69
47:B0:26:SER:HB2	47:B0:38:LEU:HD12	1.74	0.69
23:BB:1866:A:H2'	23:BB:1867:G:O4'	1.93	0.69
49:D2:21:ARG:HG3	49:D2:31:LEU:HD11	1.75	0.69
1:AA:832:G:O2'	1:AA:833:G:H5'	1.92	0.69
7:AH:87:ARG:HB2	7:AH:90:GLU:HG3	1.74	0.69
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.28	0.69
29:DG:95:ALA:HB1	29:DG:130:ILE:HD11	1.73	0.69
29:BG:97:VAL:HG11	29:BG:122:ALA:O	1.92	0.69
37:DP:6:GLN:CD	37:DP:6:GLN:H	1.95	0.69
52:DI:85:ILE:HD13	52:DI:137:LEU:HD21	1.75	0.69
40:DS:48:LYS:O	40:DS:52:GLU:HG3	1.92	0.69
25:BC:68:ARG:HD2	25:BC:127:ASN:HD21	1.57	0.69
23:BB:2265:U:H3'	23:BB:2266:A:H5''	1.75	0.69
1:CA:1218:C:H2'	1:CA:1219:A:H8	1.56	0.69
34:DM:64:TRP:HB2	34:DM:102:LEU:HB2	1.75	0.69
8:AI:12:LYS:H	8:AI:109:GLN:HE22	1.41	0.69
23:DB:2229:U:H2'	23:DB:2230:G:H8	1.56	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1440:U:H2'	23:DB:1441:G:C8	2.28	0.69
42:BU:54:PRO:HG2	42:BU:55:GLY:H	1.58	0.69
23:DB:1116:G:H21	34:DM:136:MET:HE3	1.57	0.69
23:BB:845:A:C2	23:BB:847:U:H1'	2.27	0.69
50:B3:31:ILE:HG22	50:B3:32:LEU:HG	1.75	0.69
40:DS:83:LYS:HD3	40:DS:83:LYS:N	2.07	0.69
1:CA:131:A:H2'	1:CA:132:C:C6	2.28	0.69
23:BB:2849:U:H4'	23:BB:2850:A:H5'	1.74	0.68
23:DB:532:A:N1	23:DB:2020:A:H1'	2.08	0.68
33:BL:118:THR:CB	33:BL:119:PRO:HD3	2.22	0.68
40:BS:7:HIS:CD2	40:BS:8:ARG:H	2.11	0.68
23:BB:1060:U:O2	23:BB:1088:A:N7	2.27	0.68
39:DR:37:GLU:HG3	39:DR:62:GLU:HG3	1.74	0.68
1:AA:1330:U:C2'	1:AA:1331:G:H5'	2.22	0.68
3:AD:60:VAL:HA	3:AD:63:ILE:HD12	1.74	0.68
48:D1:10:LEU:H	48:D1:24:LYS:HB3	1.58	0.68
36:BO:68:LYS:HD3	36:BO:68:LYS:H	1.58	0.68
5:CF:47:LEU:HD12	5:CF:55:HIS:HA	1.75	0.68
1:CA:270:A:H2'	1:CA:271:C:H6	1.57	0.68
23:BB:1791:A:H1'	25:BC:206:LYS:NZ	2.08	0.68
1:AA:412:A:H1'	1:AA:413:G:H8	1.57	0.68
1:AA:673:A:H2'	1:AA:674:G:C8	2.29	0.68
1:CA:642:A:H2'	1:CA:643:C:H6	1.58	0.68
1:AA:865:A:H5'	1:AA:1078:U:O4	1.93	0.68
33:DL:35:HIS:NE2	39:DR:84:ARG:HG2	2.08	0.68
37:BP:59:THR:O	37:BP:60:VAL:HG13	1.94	0.68
25:BC:124:LYS:HB2	25:BC:125:PRO:HD3	1.75	0.68
31:BJ:119:PHE:CG	31:BJ:120:ARG:N	2.61	0.68
31:BJ:36:LEU:HD11	31:BJ:122:LEU:HD23	1.75	0.68
46:BZ:5:ILE:HB	46:BZ:51:VAL:CG1	2.23	0.68
39:BR:41:ILE:C	39:BR:43:ASN:H	1.95	0.68
23:BB:1346:G:O2'	23:BB:1347:A:H5'	1.92	0.68
23:DB:2054:A:H2'	47:D0:4:GLN:NE2	2.08	0.68
21:CU:14:ALA:H	21:CU:16:ARG:HH22	1.41	0.68
32:DK:64:ARG:H	32:DK:83:ALA:HB3	1.58	0.68
23:BB:1552:A:H2'	23:BB:1553:A:H5'	1.74	0.68
23:DB:1406:U:H2'	23:DB:1407:G:C8	2.28	0.68
23:BB:423:A:H5'	23:BB:424:G:H5''	1.75	0.68
2:CC:156:LEU:HB2	2:CC:163:ARG:HD3	1.73	0.68
1:CA:977:A:H3'	1:CA:1362:A:H62	1.56	0.68
4:AE:155:LYS:HE3	7:AH:70:VAL:HG13	1.75	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:181:A:H2'	23:BB:182:A:C8	2.28	0.68
29:BG:120:ILE:HG12	29:BG:140:ILE:HG22	1.74	0.68
9:AJ:50:THR:HG22	9:AJ:64:GLN:HG2	1.75	0.68
8:CI:20:ILE:HG23	8:CI:60:LEU:HD13	1.74	0.68
1:CA:203:G:H1'	1:CA:465:A:H62	1.58	0.68
1:CA:98:A:H2'	1:CA:99:C:C6	2.28	0.68
18:AS:20:LYS:HB3	18:AS:20:LYS:HZ2	1.56	0.68
20:CB:83:ALA:O	20:CB:88:GLN:HB2	1.93	0.68
43:DW:56:HIS:HA	43:DW:77:LYS:HE2	1.75	0.68
31:BJ:93:ILE:HD13	31:BJ:100:VAL:HG21	1.74	0.68
46:DZ:39:LYS:HD3	46:DZ:61:ASN:ND2	2.09	0.68
23:BB:974:G:H1'	23:BB:975:A:C8	2.27	0.68
25:BC:61:TYR:HD2	25:BC:84:PRO:HD2	1.58	0.68
23:DB:2037:A:H2'	23:DB:2038:G:H8	1.58	0.68
23:BB:65:U:H4'	41:BT:70:HIS:ND1	2.09	0.68
29:BG:176:LYS:O	29:BG:176:LYS:HE2	1.93	0.68
23:DB:2246:G:H2'	23:DB:2247:A:H8	1.58	0.68
29:DG:17:LYS:HE2	29:DG:24:THR:H	1.59	0.68
23:DB:2804:U:H2'	23:DB:2805:C:C6	2.27	0.68
23:DB:2804:U:H2'	23:DB:2805:C:H6	1.58	0.68
25:DC:89:ASN:HB2	25:DC:105:ALA:HB3	1.75	0.68
23:DB:2860:A:H8	23:DB:2860:A:O5'	1.76	0.68
23:BB:2071:A:H2'	23:BB:2072:C:C6	2.28	0.68
28:BF:46:LYS:O	28:BF:50:ASP:HB3	1.94	0.68
23:BB:2901:C:H2'	23:BB:2902:C:H5'	1.74	0.68
1:CA:1328:C:H5''	12:CM:27:THR:HG21	1.75	0.68
42:BU:25:LYS:HA	42:BU:35:VAL:H	1.58	0.68
51:D4:15:LYS:NZ	51:D4:22:VAL:HG12	2.06	0.68
51:D4:26:ILE:HG13	51:D4:35:GLN:N	2.03	0.68
30:DH:26:ALA:HB3	30:DH:31:VAL:HG23	1.74	0.68
43:BW:43:LYS:HG2	43:BW:76:ARG:HE	1.57	0.68
33:BL:30:THR:HG22	33:BL:36:LYS:NZ	2.07	0.68
3:CD:141:VAL:HA	3:CD:180:THR:H	1.58	0.68
26:DD:79:LEU:HG	26:DD:80:TRP:H	1.57	0.68
20:AB:9:LEU:HD22	20:AB:11:ALA:N	2.07	0.68
8:CI:70:GLY:O	8:CI:74:GLN:HG2	1.93	0.68
23:DB:1082:U:C4	23:DB:1086:A:C2	2.81	0.68
23:DB:947:A:H2'	23:DB:948:C:C6	2.29	0.68
23:BB:1803:A:O3'	25:BC:254:LYS:HG2	1.94	0.68
23:BB:594:U:H2'	23:BB:595:C:C6	2.28	0.68
23:BB:720:U:H2'	23:BB:721:A:C8	2.28	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2860:A:O5'	23:BB:2860:A:H8	1.76	0.68
23:BB:2795:C:H2'	23:BB:2796:U:O4'	1.94	0.68
1:CA:1057:G:H4'	2:CC:196:GLY:H	1.58	0.68
23:DB:1098:A:C2'	52:DI:4:VAL:N	2.55	0.68
23:DB:857:G:O2'	23:DB:858:G:H5'	1.94	0.68
35:DN:97:ILE:HA	35:DN:113:ILE:HD13	1.74	0.68
25:DC:63:ILE:HD13	25:DC:90:ILE:HD13	1.76	0.68
31:DJ:19:ASP:HB3	31:DJ:21:THR:HG23	1.75	0.68
23:DB:533:G:H2'	23:DB:534:U:C6	2.28	0.68
27:BE:156:ASN:ND2	27:BE:157:LEU:HG	2.09	0.68
23:BB:322:A:OP1	27:BE:162:ARG:HG2	1.93	0.68
27:DE:161:ALA:O	27:DE:169:VAL:HB	1.93	0.68
39:BR:39:LEU:O	39:BR:54:VAL:CG1	2.41	0.68
27:BE:113:VAL:HG23	27:BE:117:ARG:NH2	2.09	0.68
18:CS:10:ILE:HB	18:CS:14:LEU:HD11	1.75	0.68
33:DL:124:GLY:H	33:DL:142:ILE:CA	2.07	0.68
23:BB:139:U:H5''	23:BB:140:C:C5	2.27	0.68
50:D3:32:LEU:CD1	50:D3:33:THR:H	2.06	0.68
38:DQ:108:LEU:HA	38:DQ:111:LYS:HD2	1.76	0.68
23:BB:1440:U:H2'	23:BB:1441:G:C8	2.28	0.68
9:AJ:56:HIS:H	13:AN:80:ARG:HH22	1.41	0.68
1:AA:642:A:H2'	1:AA:643:C:H6	1.58	0.68
44:BX:30:MET:HG3	44:BX:31:GLN:H	1.58	0.68
10:AK:70:ALA:HB1	10:AK:74:LYS:HE3	1.75	0.68
18:CS:51:HIS:HA	18:CS:56:HIS:HA	1.75	0.68
10:AK:97:ARG:HB3	10:AK:97:ARG:NH1	2.08	0.68
22:BA:17:C:O2'	22:BA:18:G:H5'	1.93	0.68
23:DB:1098:A:H3'	52:DI:3:LYS:HB3	1.76	0.68
37:DP:50:ARG:NH1	37:DP:62:LYS:HB2	2.09	0.68
37:BP:21:PRO:HB2	37:BP:49:ILE:HD13	1.76	0.68
25:DC:63:ILE:HG23	25:DC:102:TYR:CD1	2.28	0.68
27:DE:138:LEU:O	27:DE:143:LEU:HD21	1.94	0.68
23:DB:2086:U:H2'	23:DB:2087:G:C8	2.29	0.68
11:AL:8:ARG:CZ	11:AL:9:LYS:HE3	2.24	0.68
23:DB:1845:G:H4'	25:DC:268:ARG:HD3	1.76	0.68
18:CS:27:LYS:HB3	18:CS:27:LYS:HZ3	1.58	0.68
35:BN:115:LEU:O	35:BN:116:VAL:HG12	1.92	0.68
31:DJ:68:LYS:HD2	31:DJ:72:LYS:HB2	1.76	0.68
4:CE:35:LEU:HD21	4:CE:136:VAL:HG21	1.75	0.68
25:BC:20:ASN:HB3	25:BC:202:ARG:HB3	1.75	0.68
48:D1:26:LYS:HE2	48:D1:28:THR:HB	1.76	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:62:LYS:CD	26:BD:62:LYS:H	2.05	0.68
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.28	0.68
15:AP:68:SER:HB3	15:AP:71:VAL:HG12	1.76	0.68
1:AA:194:C:O2'	1:AA:195:A:H5'	1.94	0.68
3:CD:157:ALA:HA	3:CD:160:LEU:HD12	1.76	0.68
23:DB:2198:A:H4'	23:DB:2199:A:OP1	1.92	0.68
12:AM:77:LYS:HA	12:AM:80:MET:HB3	1.74	0.68
23:BB:303:G:H2'	23:BB:304:U:C6	2.29	0.68
23:DB:2849:U:H4'	23:DB:2850:A:H5'	1.74	0.68
20:CB:40:ILE:HG23	20:CB:200:PRO:HB2	1.76	0.68
36:BO:48:LEU:HD23	36:BO:49:VAL:H	1.59	0.68
50:B3:23:HIS:CD2	50:B3:23:HIS:H	2.10	0.68
23:BB:2575:C:H4'	26:BD:149:ASN:N	2.09	0.68
26:BD:148:GLN:HG3	26:BD:151:THR:OG1	1.93	0.68
25:DC:48:ILE:HG22	25:DC:49:THR:N	2.05	0.68
38:BQ:47:ARG:NH2	38:BQ:50:ARG:HB3	2.09	0.68
34:DM:16:ARG:HE	34:DM:18:ARG:NH1	1.92	0.68
18:AS:7:GLY:H	18:AS:8:PRO:HD3	1.59	0.68
23:BB:2621:G:O2'	26:BD:164:GLN:HB2	1.94	0.68
44:DX:25:GLN:NE2	44:DX:29:ARG:HH21	1.92	0.68
23:DB:162:U:H4'	23:DB:163:C:OP1	1.92	0.68
32:DK:77:ILE:HD11	32:DK:105:ARG:NH1	2.09	0.68
23:DB:743:A:O2'	23:DB:744:U:H5'	1.93	0.68
2:AC:71:ARG:HH21	2:AC:74:ILE:HB	1.57	0.68
23:DB:117:G:H5'	23:DB:126:A:H8	1.58	0.68
1:CA:947:G:H2'	1:CA:948:C:C6	2.29	0.68
23:DB:594:U:H2'	23:DB:595:C:C6	2.28	0.68
30:DH:54:LEU:HD23	30:DH:57:LYS:HD3	1.76	0.68
9:CJ:9:ARG:HB2	9:CJ:99:GLN:HG3	1.75	0.68
23:DB:2395:C:H2'	23:DB:2396:G:O4'	1.94	0.68
1:CA:695:A:H5'	10:CK:52:ARG:HH22	1.58	0.68
23:BB:417:C:H2'	23:BB:418:C:C6	2.29	0.68
23:DB:2262:U:O4	43:DW:12:GLY:HA2	1.93	0.68
23:DB:2783:U:H2'	23:DB:2784:U:C6	2.29	0.68
27:DE:115:GLN:HB3	27:DE:117:ARG:HH11	1.58	0.68
23:BB:2575:C:H5''	26:BD:149:ASN:HB3	1.75	0.68
23:BB:580:U:H2'	23:BB:581:C:C6	2.29	0.68
46:DZ:59:ARG:HD3	46:DZ:63:ARG:HD3	1.76	0.68
23:DB:2039:U:H2'	23:DB:2040:G:C8	2.28	0.68
1:CA:662:U:H2'	1:CA:663:A:C8	2.29	0.68
23:BB:1177:G:H2'	23:BB:1178:C:H6	1.59	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1432:G:OP1	37:BP:105:LYS:HE3	1.94	0.68
23:DB:543:G:H2'	23:DB:544:C:H4'	1.73	0.68
23:BB:2198:A:H4'	23:BB:2199:A:OP1	1.94	0.68
22:DA:61:G:H2'	22:DA:62:C:C6	2.28	0.68
1:AA:865:A:H2'	1:AA:866:C:C6	2.28	0.68
23:BB:2395:C:H2'	23:BB:2396:G:O4'	1.94	0.68
52:BI:5:GLN:HG2	52:BI:6:ALA:N	2.08	0.68
23:DB:2591:C:H2'	23:DB:2592:G:H8	1.59	0.68
23:DB:2405:G:C5'	33:DL:70:LYS:HG3	2.23	0.68
4:CE:67:ARG:HH11	4:CE:67:ARG:HB2	1.59	0.68
37:DP:26:GLU:HB3	37:DP:46:VAL:HG13	1.75	0.68
43:DW:46:ALA:HB2	43:DW:77:LYS:HD3	1.76	0.68
47:D0:47:TYR:HB3	47:D0:52:LYS:H	1.59	0.68
27:DE:154:ASP:OD1	27:DE:158:PHE:HB2	1.94	0.68
23:DB:1799:G:H4'	23:DB:1800:C:O5'	1.93	0.68
13:CN:50:LEU:HD12	13:CN:51:PRO:HD3	1.76	0.68
26:BD:114:LYS:HE3	26:BD:196:ALA:HB2	1.76	0.68
23:DB:794:A:H2'	23:DB:795:C:C6	2.29	0.68
1:AA:78:A:H2'	1:AA:79:G:H8	1.59	0.68
27:DE:137:LYS:HZ2	27:DE:137:LYS:HA	1.57	0.68
1:AA:1252:A:H2'	1:AA:1253:G:H5''	1.75	0.68
4:CE:44:ARG:HG2	4:CE:72:ASN:ND2	2.09	0.68
1:CA:1436:U:H2'	1:CA:1437:A:C8	2.28	0.68
23:DB:2064:C:H2'	23:DB:2065:C:H6	1.58	0.68
15:AP:3:THR:HG22	15:AP:66:THR:HB	1.75	0.68
29:DG:66:THR:O	29:DG:70:LEU:HD13	1.94	0.68
23:BB:558:U:OP1	31:BJ:113:PRO:HG2	1.93	0.68
20:AB:116:LEU:HB3	20:AB:140:LEU:HD21	1.76	0.68
20:CB:10:LYS:HB2	20:CB:211:LEU:HD21	1.76	0.68
30:BH:89:LYS:HZ1	30:BH:123:ARG:HB3	1.59	0.68
23:BB:479:A:N3	23:BB:481:G:H5''	2.09	0.68
31:BJ:13:ARG:HG3	31:BJ:13:ARG:HH11	1.59	0.68
24:BV:70:ILE:HD13	24:BV:70:ILE:N	2.09	0.68
26:BD:16:THR:O	37:BP:80:VAL:HB	1.94	0.68
22:DA:104:A:H2'	22:DA:105:G:O4'	1.94	0.68
23:BB:2783:U:H2'	23:BB:2784:U:C6	2.29	0.68
1:CA:865:A:H2'	1:CA:866:C:C6	2.28	0.68
25:BC:21:PRO:O	25:BC:202:ARG:HD2	1.93	0.68
3:AD:156:ALA:O	3:AD:159:GLU:HG2	1.94	0.68
2:AC:57:GLU:HB2	2:AC:64:ARG:HB2	1.75	0.68
4:AE:85:LYS:HE2	4:AE:92:ARG:NH1	2.08	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2471:A:HO2'	23:DB:2472:G:H8	1.40	0.68
5:CF:42:TRP:HB2	5:CF:59:TYR:HB2	1.76	0.68
23:DB:528:A:C2	23:DB:2042:A:H2'	2.29	0.68
23:DB:1373:A:H2'	23:DB:1374:G:O4'	1.92	0.68
24:BV:76:ASP:HB2	34:BM:136:MET:CG	2.24	0.68
23:BB:240:C:H3'	23:BB:241:A:H5''	1.75	0.68
37:DP:64:SER:HA	37:DP:71:ARG:CB	2.23	0.67
23:DB:2743:U:H2'	23:DB:2744:G:H5''	1.75	0.67
23:DB:2334:U:H3	43:DW:74:LYS:CE	2.06	0.67
23:DB:2089:C:H2'	23:DB:2090:A:O4'	1.94	0.67
41:BT:30:ILE:O	41:BT:84:TYR:HA	1.94	0.67
11:AL:35:ARG:HG3	11:AL:36:VAL:H	1.58	0.67
23:BB:2318:G:O2'	23:BB:2319:G:C2	2.47	0.67
23:BB:2297:A:N6	23:BB:2319:G:H5''	2.09	0.67
3:AD:94:GLU:HG3	3:AD:103:ARG:NH1	2.09	0.67
48:B1:7:LYS:HD3	48:B1:24:LYS:HB2	1.76	0.67
2:AC:184:ASN:HD22	2:AC:185:THR:H	1.42	0.67
46:DZ:20:ASN:O	46:DZ:21:VAL:HB	1.94	0.67
6:CG:25:PHE:HD1	6:CG:100:MET:HB2	1.59	0.67
4:CE:22:LYS:HB3	4:CE:29:ILE:HB	1.75	0.67
18:CS:62:THR:HG23	18:CS:63:ASP:H	1.59	0.67
24:BV:66:ASP:HB3	24:BV:68:LYS:HG2	1.76	0.67
25:BC:42:ARG:CG	25:BC:43:ASN:H	2.01	0.67
25:BC:144:GLU:HB2	25:BC:146:LYS:O	1.93	0.67
47:D0:52:LYS:O	47:D0:53:VAL:HG12	1.93	0.67
23:BB:1163:G:H21	39:BR:91:GLN:HG3	1.58	0.67
43:DW:17:ALA:O	43:DW:18:LYS:HG2	1.95	0.67
51:B4:14:CYS:HA	51:B4:26:ILE:O	1.93	0.67
26:DD:202:ILE:HG23	26:DD:204:LYS:HE3	1.76	0.67
26:BD:128:ARG:HH22	26:BD:130:GLN:HG3	1.60	0.67
28:DF:151:LEU:HG	28:DF:153:ILE:HG13	1.74	0.67
34:DM:100:LYS:O	34:DM:101:VAL:HG23	1.94	0.67
19:AT:67:HIS:O	19:AT:70:LYS:HG2	1.93	0.67
23:DB:2143:C:H3'	23:DB:2144:G:H8	1.59	0.67
23:BB:1917:U:H2'	23:BB:1918:A:H5'	1.76	0.67
8:AI:112:ARG:HB2	8:AI:112:ARG:HH11	1.57	0.67
48:B1:29:LYS:HE3	48:B1:30:PRO:HD2	1.75	0.67
19:CT:34:VAL:HG11	19:CT:78:LEU:HD13	1.75	0.67
23:DB:596:U:H2'	23:DB:597:G:H8	1.57	0.67
29:BG:85:LYS:O	29:BG:86:LEU:HD22	1.94	0.67
23:BB:1531:C:H2'	23:BB:1532:A:C8	2.29	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:98:VAL:HA	26:BD:101:PHE:CZ	2.28	0.67
14:AO:31:LEU:HD12	14:AO:58:MET:HB2	1.76	0.67
20:CB:185:ILE:HA	20:CB:199:ILE:HG13	1.76	0.67
1:CA:1026:G:H2'	1:CA:1027:C:H6	1.60	0.67
23:BB:598:U:H2'	23:BB:599:A:H8	1.58	0.67
37:DP:112:ARG:H	37:DP:112:ARG:HE	1.41	0.67
37:DP:29:VAL:HG23	37:DP:47:ILE:HD11	1.76	0.67
31:DJ:96:ARG:HD2	31:DJ:99:ARG:HH21	1.58	0.67
27:BE:128:ALA:HB3	27:BE:129:PRO:CD	2.20	0.67
38:BQ:39:ILE:O	38:BQ:43:GLN:HG3	1.94	0.67
13:AN:60:ARG:HD3	13:AN:60:ARG:N	2.05	0.67
23:BB:811:U:O2	23:BB:1250:G:H3'	1.95	0.67
31:DJ:35:ARG:HH12	31:DJ:40:HIS:N	1.82	0.67
40:BS:34:ASP:H	40:BS:37:THR:CG2	2.06	0.67
41:BT:54:GLU:N	41:BT:91:GLN:HE22	1.88	0.67
23:BB:559:G:H1'	38:BQ:55:GLN:NE2	2.10	0.67
36:DO:66:GLY:N	36:DO:70:ALA:HB2	2.07	0.67
23:DB:1060:U:O2	23:DB:1088:A:N7	2.27	0.67
26:BD:89:GLU:HG2	26:BD:89:GLU:O	1.93	0.67
1:CA:1306:A:N6	1:CA:1331:G:O2'	2.27	0.67
23:DB:1190:G:OP1	33:DL:38:GLN:HB2	1.94	0.67
33:DL:18:ARG:HH12	33:DL:21:ARG:HD3	1.59	0.67
2:CC:127:VAL:HG23	2:CC:128:MET:H	1.57	0.67
1:AA:1029:U:H5''	1:AA:1030:U:H5	1.59	0.67
1:AA:1300:G:H1'	1:AA:1301:U:H5	1.59	0.67
23:DB:1201:U:H2'	23:DB:1202:G:H8	1.59	0.67
23:DB:2795:C:H2'	23:DB:2796:U:O4'	1.94	0.67
19:AT:15:LYS:HD3	19:AT:18:LYS:HE3	1.76	0.67
6:AG:66:GLU:HA	6:AG:69:ARG:HE	1.59	0.67
1:AA:541:G:O2'	3:AD:39:GLN:HB2	1.93	0.67
51:D4:26:ILE:CD1	51:D4:34:LYS:HA	2.23	0.67
25:DC:87:SER:O	25:DC:157:ALA:HB2	1.95	0.67
31:DJ:98:GLU:HG3	31:DJ:126:ALA:HB2	1.75	0.67
23:BB:2393:U:H5''	33:BL:62:PRO:HA	1.76	0.67
46:BZ:5:ILE:HG23	46:BZ:63:ARG:HE	1.60	0.67
48:D1:46:VAL:HG22	48:D1:47:ILE:H	1.59	0.67
41:DT:66:LYS:H	41:DT:76:ARG:NH2	1.90	0.67
8:AI:34:LEU:HD11	8:AI:47:VAL:HG21	1.76	0.67
43:BW:35:ILE:HG12	43:BW:70:VAL:HG21	1.75	0.67
51:B4:11:CYS:HB3	51:B4:14:CYS:SG	2.35	0.67
49:B2:34:ARG:HE	49:B2:42:LEU:HD13	1.59	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:555:U:H2'	1:CA:556:C:H6	1.60	0.67
43:BW:28:GLU:N	43:BW:61:LYS:HB2	2.09	0.67
19:CT:66:ILE:HG13	19:CT:70:LYS:HE2	1.75	0.67
35:BN:100:CYS:HB3	35:BN:111:ALA:H	1.59	0.67
23:BB:596:U:H2'	23:BB:597:G:H8	1.58	0.67
52:BI:89:SER:HA	52:BI:97:VAL:CG2	2.25	0.67
23:DB:863:A:H2'	23:DB:864:G:H8	1.58	0.67
3:CD:87:GLU:HG2	3:CD:187:ARG:HD3	1.76	0.67
23:BB:215:G:C4'	23:BB:216:A:H4'	2.25	0.67
23:BB:417:C:H2'	23:BB:418:C:H6	1.59	0.67
1:AA:987:G:H2'	1:AA:988:G:H8	1.60	0.67
1:CA:194:C:O2'	1:CA:195:A:H5'	1.94	0.67
23:DB:1533:C:O2'	23:DB:1534:U:H5'	1.95	0.67
25:DC:260:LYS:HG2	25:DC:262:THR:OG1	1.95	0.67
20:AB:131:LYS:HA	20:AB:134:LEU:HD12	1.74	0.67
23:BB:2750:A:H3'	29:BG:3:VAL:CG1	2.24	0.67
51:D4:26:ILE:CG1	51:D4:35:GLN:H	2.02	0.67
1:AA:1320:C:N4	18:AS:35:ARG:HD3	2.10	0.67
30:BH:6:LEU:HA	30:BH:15:LEU:CA	2.24	0.67
23:BB:478:A:N1	23:BB:500:G:H4'	2.09	0.67
23:DB:1341:G:H5'	41:DT:61:LEU:HD21	1.76	0.67
38:BQ:52:ARG:CZ	38:BQ:55:GLN:HG2	2.24	0.67
33:DL:58:TYR:HB3	50:D3:13:PHE:CZ	2.30	0.67
23:BB:794:A:H2'	23:BB:795:C:C6	2.29	0.67
32:DK:43:ILE:H	32:DK:43:ILE:HD12	1.58	0.67
29:DG:36:LEU:HB2	29:DG:40:VAL:HG21	1.76	0.67
11:AL:19:ASN:O	11:AL:20:VAL:HG23	1.95	0.67
23:DB:1437:C:H2'	23:DB:1438:U:H6	1.60	0.67
23:DB:594:U:H2'	23:DB:595:C:H6	1.60	0.67
36:BO:67:ASN:HA	36:BO:71:ALA:HB3	1.75	0.67
1:AA:1479:C:H2'	1:AA:1480:A:H8	1.59	0.67
9:AJ:80:THR:HG22	9:AJ:81:GLU:H	1.60	0.67
44:DX:12:GLU:HG2	44:DX:12:GLU:O	1.94	0.67
23:DB:2088:A:H2'	23:DB:2089:C:C6	2.28	0.67
41:DT:55:VAL:HG23	41:DT:87:LEU:H	1.59	0.67
28:BF:59:ILE:HD11	28:BF:137:PHE:CD2	2.28	0.67
34:DM:71:LYS:HB2	34:DM:72:PRO:HD3	1.75	0.67
27:BE:164:LEU:O	27:BE:165:HIS:HB2	1.93	0.67
23:BB:445:C:OP1	38:BQ:1:ALA:HB3	1.94	0.67
51:B4:20:ASP:OD2	51:B4:22:VAL:HG13	1.93	0.67
26:BD:138:LEU:CD2	26:BD:138:LEU:H	2.07	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:833:A:H2'	23:DB:834:G:C8	2.30	0.67
27:BE:60:TRP:NE1	27:BE:73:ILE:HD11	2.08	0.67
23:DB:2266:A:H4'	23:DB:2267:A:C2	2.30	0.67
23:BB:2834:G:H1'	23:BB:2883:A:H61	1.58	0.67
38:DQ:26:ALA:HA	38:DQ:30:VAL:HG23	1.76	0.67
23:DB:479:A:O2'	23:DB:481:G:H5'	1.95	0.67
34:DM:118:LYS:HB2	34:DM:118:LYS:NZ	2.09	0.67
23:BB:2804:U:H2'	23:BB:2805:C:H6	1.58	0.67
29:DG:16:VAL:HG22	29:DG:25:ILE:HG13	1.77	0.67
20:CB:206:ILE:HG22	20:CB:207:ARG:HH21	1.57	0.67
23:DB:2880:C:H1'	35:DN:92:GLY:O	1.95	0.67
25:DC:26:GLY:C	25:DC:27:LYS:HD2	2.15	0.67
44:BX:55:THR:HG22	44:BX:59:GLU:OE1	1.95	0.67
20:CB:16:GLY:HA2	20:CB:40:ILE:HG13	1.77	0.67
25:DC:63:ILE:HD12	25:DC:83:ASP:CG	2.15	0.67
5:CF:3:HIS:HB3	5:CF:92:THR:CA	2.22	0.67
23:DB:2292:U:H2'	23:DB:2293:G:H8	1.60	0.67
23:BB:1250:G:O2'	23:BB:1251:C:OP1	2.12	0.67
23:BB:587:C:OP2	33:BL:29:LYS:HA	1.94	0.67
41:DT:55:VAL:HG22	41:DT:56:GLU:N	2.08	0.67
25:BC:79:ARG:CZ	25:BC:110:LYS:HD3	2.24	0.67
31:BJ:39:LYS:HZ2	38:BQ:69:ARG:HD2	1.58	0.67
39:BR:46:GLU:O	39:BR:47:VAL:HB	1.95	0.67
26:DD:122:VAL:HA	26:DD:128:ARG:CG	2.24	0.67
23:DB:2391:G:OP2	50:D3:32:LEU:HG	1.95	0.67
23:BB:2769:U:H2'	23:BB:2770:G:H8	1.58	0.67
25:BC:21:PRO:HG2	25:BC:202:ARG:NH1	2.09	0.67
1:CA:1296:C:H4'	1:CA:1302:C:H41	1.60	0.67
42:BU:4:ILE:O	42:BU:27:VAL:HG11	1.95	0.67
25:DC:20:ASN:HB2	25:DC:202:ARG:NH1	2.10	0.67
4:AE:110:MET:HB3	4:AE:139:THR:HG21	1.76	0.67
23:DB:598:U:H2'	23:DB:599:A:H8	1.58	0.67
23:BB:1486:U:H2'	23:BB:1487:U:H6	1.59	0.67
27:BE:17:THR:HA	27:BE:199:MET:HG3	1.76	0.67
4:AE:83:PRO:HB3	4:AE:96:GLN:HG3	1.76	0.67
23:BB:2836:U:H2'	23:BB:2837:A:H8	1.60	0.67
11:CL:93:ARG:H	11:CL:93:ARG:HD2	1.59	0.67
41:BT:38:ALA:O	41:BT:42:GLU:HB2	1.95	0.67
20:CB:27:LYS:HB3	20:CB:28:PRO:HD3	1.77	0.67
23:BB:282:A:H2'	23:BB:283:G:C8	2.30	0.67
28:BF:9:ASP:O	28:BF:10:GLU:HB2	1.93	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2278:A:H62	43:DW:10:ARG:HB2	1.59	0.67
23:DB:2769:U:H2'	23:DB:2770:G:H8	1.58	0.67
15:AP:9:HIS:HE1	15:AP:29:ASN:HB2	1.59	0.67
30:DH:6:LEU:CD1	30:DH:36:ALA:H	2.03	0.67
23:DB:2900:A:H2'	23:DB:2901:C:C6	2.30	0.67
20:AB:212:TYR:O	20:AB:216:VAL:HG23	1.94	0.67
32:BK:26:GLY:HA3	32:BK:30:ARG:NE	2.06	0.67
5:AF:12:PRO:HG3	5:AF:54:LEU:HG	1.76	0.67
27:BE:170:ARG:HH21	27:BE:175:ILE:HD12	1.59	0.67
1:AA:1313:U:H5''	18:AS:5:LYS:CG	2.24	0.67
26:BD:146:ILE:HD12	26:BD:146:ILE:N	2.10	0.67
1:CA:554:A:H5'	11:CL:25:ALA:HB1	1.77	0.67
23:BB:643:A:N6	23:BB:2370:G:H1'	2.10	0.67
25:BC:9:SER:HB2	25:BC:202:ARG:CZ	2.25	0.67
52:DI:27:LEU:CD2	52:DI:27:LEU:H	2.07	0.67
27:DE:6:LYS:HD3	27:DE:7:ASP:N	2.10	0.67
28:DF:39:VAL:HG22	28:DF:84:ILE:HD13	1.77	0.67
23:BB:751:A:H5'	40:BS:90:LYS:HE3	1.75	0.67
23:BB:589:U:H2'	23:BB:590:A:C8	2.30	0.67
29:DG:40:VAL:HG22	29:DG:51:PHE:CE2	2.29	0.67
20:CB:202:ASN:HD22	20:CB:203:ASP:H	1.43	0.67
25:DC:22:GLU:HB2	25:DC:202:ARG:CD	2.25	0.67
23:DB:836:G:H2'	23:DB:837:C:H6	1.58	0.67
29:BG:176:LYS:C	29:BG:176:LYS:HE2	2.15	0.67
25:BC:238:ASN:HB3	25:BC:242:HIS:NE2	2.09	0.67
40:DS:73:LYS:HD3	40:DS:74:ILE:H	1.58	0.67
2:CC:8:GLY:HA3	13:CN:88:MET:SD	2.35	0.67
12:CM:79:LEU:HD22	12:CM:86:ARG:HE	1.60	0.67
34:DM:80:VAL:HG12	34:DM:81:ARG:H	1.60	0.67
19:AT:48:LYS:O	19:AT:52:GLU:HB2	1.95	0.67
44:DX:51:ALA:O	44:DX:53:VAL:N	2.28	0.67
23:DB:1531:C:H2'	23:DB:1532:A:C8	2.29	0.67
1:CA:398:U:H2'	1:CA:399:G:H8	1.60	0.67
1:AA:1170:A:H2'	1:AA:1171:A:O4'	1.94	0.67
23:BB:329:G:O6	42:BU:16:LYS:HB2	1.95	0.67
43:DW:42:THR:HB	43:DW:75:ASN:CB	2.24	0.67
23:DB:1568:G:OP1	25:DC:61:TYR:HB2	1.95	0.67
33:DL:34:GLY:HA3	39:DR:85:LYS:HG2	1.77	0.67
1:AA:1219:A:H2'	1:AA:1220:G:H8	1.59	0.67
34:BM:35:ALA:O	34:BM:36:VAL:HG22	1.95	0.67
8:AI:82:ILE:O	8:AI:86:LEU:HD22	1.95	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1007:C:H5'	31:BJ:37:ARG:HH21	1.59	0.67
1:AA:764:C:H3'	1:AA:765:G:N2	2.06	0.67
46:BZ:36:VAL:CA	46:BZ:42:PRO:HB3	2.23	0.67
26:DD:48:ILE:HA	26:DD:80:TRP:HB3	1.77	0.67
1:CA:763:G:H2'	1:CA:764:C:H6	1.60	0.67
26:DD:130:GLN:HB3	26:DD:140:HIS:HA	1.77	0.67
52:BI:77:VAL:HA	52:BI:80:LYS:HE2	1.76	0.67
39:DR:47:VAL:CG1	39:DR:49:ILE:HG12	2.25	0.67
33:DL:39:LYS:H	33:DL:39:LYS:HZ3	1.42	0.67
23:BB:2039:U:H2'	23:BB:2040:G:C8	2.28	0.67
23:BB:721:A:H2'	23:BB:722:A:C8	2.29	0.67
23:BB:2294:G:O2'	23:BB:2295:C:H5'	1.95	0.67
6:AG:149:ALA:HB1	10:AK:58:THR:HG21	1.77	0.67
1:AA:203:G:H1'	1:AA:465:A:H62	1.59	0.67
37:DP:7:LEU:HD23	37:DP:11:GLN:HE21	1.60	0.67
12:CM:39:ALA:O	12:CM:42:VAL:HG22	1.94	0.67
23:BB:1210:G:H5'	23:BB:1212:G:O4'	1.95	0.67
34:BM:3:GLN:O	34:BM:5:LYS:N	2.28	0.67
23:BB:442:G:N2	27:BE:46:GLN:NE2	2.44	0.67
25:DC:107:LYS:CE	25:DC:108:GLY:H	2.05	0.67
39:DR:74:ILE:O	39:DR:75:VAL:HG13	1.94	0.67
1:AA:1218:C:H2'	1:AA:1219:A:H8	1.59	0.67
27:DE:138:LEU:HD22	27:DE:187:VAL:HG11	1.75	0.67
35:BN:114:GLU:HG2	35:BN:115:LEU:H	1.59	0.67
5:AF:53:LYS:HA	5:AF:53:LYS:NZ	2.09	0.67
10:AK:110:THR:HG21	21:AU:4:LYS:HD2	1.77	0.67
1:CA:1202:U:H1'	13:CN:68:ARG:HD2	1.77	0.67
1:CA:555:U:H2'	1:CA:556:C:C6	2.30	0.67
1:CA:918:A:H2'	1:CA:919:A:C8	2.30	0.67
7:AH:29:SER:HB3	7:AH:32:LYS:HG3	1.77	0.67
1:CA:673:A:H2'	1:CA:674:G:C8	2.28	0.67
11:AL:20:VAL:HG13	11:AL:94:TYR:OH	1.95	0.67
23:BB:1410:G:H2'	23:BB:1411:U:C6	2.29	0.67
23:BB:2537:U:H2'	23:BB:2538:C:H6	1.60	0.67
20:CB:103:TRP:O	20:CB:107:ARG:HG3	1.95	0.67
1:AA:586:C:O2'	1:AA:587:G:H5'	1.94	0.67
22:DA:26:C:H2'	22:DA:27:C:C6	2.29	0.67
9:CJ:12:ALA:HB3	9:CJ:18:ILE:HB	1.75	0.67
16:AQ:29:LYS:HD3	16:AQ:35:LYS:N	2.10	0.67
50:B3:41:ARG:HB3	50:B3:43:LEU:HD22	1.77	0.67
23:DB:2723:C:H5'	35:DN:4:ARG:CZ	2.25	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1799:G:H5''	25:DC:255:LYS:HE3	1.76	0.66
31:DJ:37:ARG:HH21	31:DJ:46:PRO:HB3	1.59	0.66
35:BN:72:ASP:HB3	35:BN:74:GLU:HG3	1.76	0.66
26:DD:122:VAL:HG22	26:DD:128:ARG:HG3	1.77	0.66
26:BD:34:VAL:HG13	26:BD:89:GLU:OE2	1.94	0.66
4:CE:87:VAL:HG22	4:CE:88:HIS:N	2.09	0.66
20:AB:96:LEU:HB2	20:AB:99:MET:HE3	1.76	0.66
9:AJ:10:LEU:HG	9:AJ:98:VAL:HG12	1.76	0.66
11:CL:65:TYR:HB2	11:CL:92:VAL:HG11	1.77	0.66
42:DU:43:LYS:HB2	42:DU:43:LYS:HZ2	1.60	0.66
1:AA:398:U:H2'	1:AA:399:G:H8	1.60	0.66
1:AA:555:U:H2'	1:AA:556:C:C6	2.30	0.66
1:AA:1193:G:O2'	1:AA:1194:U:H5'	1.95	0.66
1:AA:1065:U:H1'	1:AA:1066:C:OP2	1.96	0.66
1:CA:538:G:OP2	11:CL:111:GLN:HB2	1.94	0.66
5:CF:68:GLN:HA	5:CF:71:ILE:HG22	1.77	0.66
23:BB:833:A:H2'	23:BB:834:G:C8	2.30	0.66
23:DB:2836:U:H2'	23:DB:2837:A:H8	1.60	0.66
1:CA:408:A:OP1	3:CD:111:ALA:HB3	1.95	0.66
6:CG:70:PRO:HA	6:CG:141:HIS:HE1	1.59	0.66
13:AN:50:LEU:HD23	13:AN:51:PRO:HD3	1.77	0.66
1:CA:678:U:H2'	1:CA:679:C:H6	1.59	0.66
1:CA:678:U:H2'	1:CA:679:C:C6	2.30	0.66
51:D4:34:LYS:HE2	51:D4:36:ARG:NH2	2.10	0.66
31:DJ:132:HIS:HB3	31:DJ:136:GLN:OE1	1.95	0.66
23:DB:532:A:H4'	23:DB:533:G:C8	2.30	0.66
46:BZ:55:GLY:HA2	46:BZ:63:ARG:HG3	1.78	0.66
48:D1:16:THR:HG22	48:D1:47:ILE:HD12	1.77	0.66
16:AQ:75:VAL:HG23	16:AQ:76:ARG:H	1.59	0.66
35:BN:97:ILE:CD1	35:BN:113:ILE:HD13	2.24	0.66
39:BR:5:PHE:HA	39:BR:40:MET:CG	2.25	0.66
1:AA:763:G:H2'	1:AA:764:C:H6	1.59	0.66
30:DH:87:GLU:HB2	30:DH:89:LYS:NZ	2.08	0.66
37:DP:36:LYS:HG2	37:DP:37:LYS:HE3	1.76	0.66
23:BB:2147:A:H5'	23:BB:2148:G:C4'	2.26	0.66
8:CI:98:ARG:HA	8:CI:103:VAL:HG22	1.75	0.66
1:AA:662:U:H2'	1:AA:663:A:C8	2.30	0.66
15:CP:61:VAL:HA	15:CP:65:ALA:HB3	1.77	0.66
23:BB:1082:U:N3	23:BB:1086:A:C6	2.63	0.66
42:DU:17:ASP:OD2	42:DU:20:LYS:HB2	1.95	0.66
32:DK:19:VAL:HG12	32:DK:43:ILE:HA	1.77	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:8:ILE:HA	9:CJ:100:ILE:HG22	1.76	0.66
23:DB:1486:U:H2'	23:DB:1487:U:H6	1.59	0.66
11:CL:54:VAL:HG11	11:CL:79:ILE:HD11	1.77	0.66
23:DB:1410:G:H2'	23:DB:1411:U:C6	2.29	0.66
9:CJ:48:ARG:HB3	9:CJ:66:GLU:HG3	1.78	0.66
1:CA:909:A:H2'	1:CA:910:C:O4'	1.95	0.66
42:DU:82:VAL:HB	42:DU:94:PHE:HB3	1.76	0.66
37:DP:55:HIS:C	37:DP:57:ALA:H	1.96	0.66
23:BB:2591:C:H2'	23:BB:2592:G:H8	1.59	0.66
21:CU:48:LYS:HA	21:CU:51:ALA:HB3	1.77	0.66
23:BB:2527:C:H1'	51:B4:1:MET:HB3	1.77	0.66
43:DW:31:LEU:HD22	43:DW:39:GLN:HE22	1.61	0.66
31:BJ:56:VAL:HB	31:BJ:124:VAL:HA	1.77	0.66
40:BS:103:ILE:HG13	40:BS:105:VAL:HG23	1.76	0.66
35:BN:34:ILE:HD13	35:BN:34:ILE:N	2.10	0.66
27:BE:117:ARG:H	27:BE:118:LEU:HD23	1.60	0.66
23:BB:2511:U:O2'	26:BD:144:GLY:HA3	1.94	0.66
26:DD:125:TRP:HB2	26:DD:160:LYS:CD	2.25	0.66
23:DB:2286:G:H1	48:D1:23:THR:HG21	1.60	0.66
39:DR:6:GLN:HG2	39:DR:7:SER:H	1.60	0.66
1:CA:1078:U:H4'	4:CE:137:ARG:NH1	2.10	0.66
8:CI:29:ILE:HA	8:CI:64:ILE:HB	1.76	0.66
23:BB:1437:C:H2'	23:BB:1438:U:H6	1.59	0.66
23:BB:2471:A:HO2'	23:BB:2472:G:H8	1.37	0.66
42:DU:42:LYS:H	42:DU:57:ILE:HD12	1.58	0.66
23:BB:1212:G:O2'	23:BB:1236:G:N2	2.27	0.66
23:DB:2243:U:H2'	23:DB:2244:U:C6	2.30	0.66
1:CA:1270:G:H2'	1:CA:1271:A:H8	1.61	0.66
1:AA:1116:U:O2'	1:AA:1117:A:H5'	1.95	0.66
1:AA:678:U:H2'	1:AA:679:C:C6	2.30	0.66
6:CG:2:ARG:HB3	6:CG:2:ARG:NH1	2.10	0.66
23:DB:1456:G:O2'	23:DB:1457:U:H5'	1.95	0.66
1:CA:731:G:H5'	1:CA:766:A:H4'	1.78	0.66
23:DB:857:G:H2'	23:DB:858:G:H5'	1.78	0.66
23:BB:161:A:H62	23:BB:165:A:H61	1.41	0.66
43:BW:66:VAL:HG22	43:BW:67:LYS:N	2.11	0.66
27:DE:105:LEU:O	27:DE:108:ILE:HG23	1.95	0.66
24:DV:4:ILE:O	24:DV:63:ILE:HA	1.95	0.66
3:AD:2:ARG:HG3	3:AD:114:ARG:CZ	2.26	0.66
27:BE:148:ILE:HB	27:BE:185:LYS:O	1.95	0.66
26:DD:4:LEU:HD22	26:DD:51:THR:HB	1.76	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DS:23:LEU:C	40:DS:24:ILE:HD13	2.15	0.66
1:CA:16:A:O2'	1:CA:17:U:H5'	1.96	0.66
1:CA:376:G:H5''	15:CP:5:ARG:HB2	1.76	0.66
23:DB:1082:U:N3	23:DB:1086:A:C6	2.62	0.66
2:AC:5:HIS:CD2	13:AN:88:MET:HB3	2.30	0.66
29:BG:40:VAL:HG21	29:BG:53:PRO:HA	1.76	0.66
1:AA:1008:U:H2'	1:AA:1009:U:C4'	2.25	0.66
23:BB:1714:U:H3'	23:BB:1715:G:H5'	1.77	0.66
23:DB:2531:A:OP1	29:DG:176:LYS:HA	1.95	0.66
41:DT:72:GLN:C	41:DT:73:ARG:HD2	2.16	0.66
25:DC:74:PRO:HB2	25:DC:96:LYS:HG3	1.78	0.66
9:CJ:37:ARG:HB2	9:CJ:76:ILE:HA	1.75	0.66
29:DG:8:VAL:HB	29:DG:49:LEU:HB2	1.77	0.66
1:AA:72:A:H2'	1:AA:73:C:H6	1.60	0.66
31:BJ:23:LYS:HD2	31:BJ:23:LYS:H	1.61	0.66
1:AA:1163:A:H2'	1:AA:1164:G:H8	1.60	0.66
23:DB:2323:G:O2'	23:DB:2324:U:H5'	1.94	0.66
23:DB:1098:A:H3'	52:DI:3:LYS:C	2.15	0.66
37:DP:90:ALA:HB3	37:DP:112:ARG:N	2.11	0.66
37:BP:29:VAL:O	37:BP:31:VAL:HG23	1.95	0.66
43:DW:35:ILE:HB	43:DW:67:LYS:HZ2	1.60	0.66
18:AS:49:ALA:HA	18:AS:57:VAL:O	1.96	0.66
33:BL:118:THR:H	33:BL:119:PRO:CD	2.06	0.66
34:BM:8:LYS:HZ2	34:BM:70:ASP:N	1.92	0.66
34:DM:5:LYS:HD3	34:DM:71:LYS:HG2	1.77	0.66
27:BE:5:LEU:H	27:BE:5:LEU:HD12	1.60	0.66
26:DD:35:THR:HB	26:DD:48:ILE:HB	1.77	0.66
24:DV:9:ARG:NH1	24:DV:12:GLN:HA	2.09	0.66
52:BI:11:GLN:HA	52:BI:55:PRO:HA	1.76	0.66
29:DG:4:ALA:O	29:DG:5:LYS:HB2	1.93	0.66
39:DR:6:GLN:HG2	39:DR:7:SER:N	2.10	0.66
6:CG:113:LYS:HE2	6:CG:113:LYS:HA	1.75	0.66
2:AC:77:GLY:HA3	2:AC:82:ASP:H	1.61	0.66
49:D2:13:ASN:OD1	49:D2:17:GLY:HA3	1.96	0.66
1:CA:239:U:C5'	1:CA:239:U:H6	2.08	0.66
23:BB:2270:A:H4'	43:BW:18:LYS:HG2	1.78	0.66
1:CA:812:G:HO2'	1:CA:813:U:H6	1.42	0.66
23:BB:469:G:OP2	27:BE:55:SER:HB2	1.96	0.66
23:BB:1843:C:O4'	25:BC:250:GLN:HG2	1.95	0.66
23:DB:2147:A:H2'	23:DB:2147:A:N3	2.11	0.66
26:DD:114:LYS:HB2	26:DD:114:LYS:NZ	2.10	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1381:G:C2'	23:BB:1382:G:H5'	2.26	0.66
1:CA:56:U:H2'	1:CA:57:G:H8	1.61	0.66
23:DB:2758:A:C2'	23:DB:2759:G:H5'	2.25	0.66
29:DG:153:PRO:HA	29:DG:159:LYS:O	1.94	0.66
23:DB:1099:G:C5'	52:DI:3:LYS:N	2.59	0.66
1:CA:1461:G:H2'	1:CA:1462:C:H6	1.59	0.66
42:BU:5:ARG:HG2	42:BU:6:ARG:H	1.60	0.66
23:BB:163:C:H2'	23:BB:164:C:O4'	1.95	0.66
25:DC:75:ALA:HB1	25:DC:93:VAL:HG13	1.78	0.66
43:BW:46:ALA:H	43:BW:75:ASN:CG	1.99	0.66
23:BB:320:A:H4'	23:BB:322:A:N7	2.11	0.66
15:AP:46:LYS:H	15:AP:46:LYS:CD	2.08	0.66
36:DO:25:ARG:CG	36:DO:94:ARG:HH22	2.08	0.66
35:BN:33:ILE:HD13	35:BN:33:ILE:N	2.10	0.66
23:BB:545:U:H2'	23:BB:547:A:OP2	1.94	0.66
26:DD:129:THR:HG23	26:DD:130:GLN:H	1.60	0.66
23:DB:928:A:H1'	45:DY:1:ALA:HA	1.77	0.66
45:DY:2:LYS:CB	45:DY:37:ARG:HB2	2.25	0.66
2:CC:176:THR:OG1	2:CC:179:ALA:HB2	1.96	0.66
42:DU:71:ILE:HD13	42:DU:72:PHE:N	2.11	0.66
37:BP:99:LEU:HD12	37:BP:101:GLU:OE2	1.96	0.66
23:DB:580:U:H2'	23:DB:581:C:C6	2.29	0.66
1:AA:922:G:H2'	1:AA:923:A:C8	2.31	0.66
1:CA:205:A:H2'	1:CA:206:C:H6	1.61	0.66
1:AA:678:U:H2'	1:AA:679:C:H6	1.59	0.66
23:BB:448:U:H1'	27:BE:79:ARG:HG3	1.76	0.66
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.31	0.66
23:DB:943:A:P	33:DL:40:SER:HA	2.35	0.66
1:CA:1053:G:HO2'	1:CA:1199:U:H5	1.42	0.66
23:DB:1098:A:C4	52:DI:3:LYS:O	2.49	0.66
23:DB:589:U:H2'	23:DB:590:A:C8	2.30	0.66
43:DW:30:VAL:HG12	43:DW:31:LEU:H	1.61	0.66
43:DW:44:PHE:HB3	43:DW:77:LYS:HB3	1.76	0.66
46:DZ:30:HIS:CE1	46:DZ:49:ARG:HH12	2.14	0.66
34:BM:100:LYS:HE3	34:BM:100:LYS:N	2.10	0.66
34:DM:16:ARG:HE	34:DM:18:ARG:HH12	1.42	0.66
34:DM:71:LYS:NZ	34:DM:91:TYR:HB3	2.10	0.66
40:BS:70:LYS:HD2	40:BS:110:ARG:HA	1.78	0.66
25:DC:208:GLY:HA2	25:DC:212:TRP:HB3	1.78	0.66
1:AA:1110:A:H2'	1:AA:1111:A:H8	1.61	0.66
1:CA:1286:U:O2'	1:CA:1287:A:H5''	1.96	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CK:124:LYS:HD3	21:CU:34:ARG:HD3	1.76	0.66
15:AP:51:ARG:C	15:AP:52:LEU:HD22	2.16	0.66
23:DB:1083:U:H1'	23:DB:1086:A:H61	1.60	0.66
1:AA:37:U:P	11:AL:119:LYS:HB2	2.35	0.66
10:CK:12:ARG:C	10:CK:13:LYS:HD2	2.15	0.66
52:DI:41:PHE:O	52:DI:45:THR:HG23	1.96	0.66
25:BC:257:ARG:HA	25:BC:257:ARG:NH1	2.11	0.66
1:AA:731:G:H5'	1:AA:766:A:H4'	1.78	0.66
9:CJ:41:PRO:HA	9:CJ:72:ARG:HD3	1.77	0.66
1:AA:555:U:H2'	1:AA:556:C:H6	1.60	0.66
23:BB:1456:G:O2'	23:BB:1457:U:H5'	1.95	0.66
3:AD:187:ARG:HA	3:AD:190:LEU:HD22	1.78	0.66
1:CA:312:C:H2'	1:CA:313:A:C8	2.31	0.66
1:AA:539:A:H2'	1:AA:540:G:C8	2.31	0.66
23:DB:564:C:O2'	23:DB:565:C:H5'	1.95	0.66
43:DW:42:THR:H	43:DW:65:LYS:HA	1.61	0.66
33:BL:78:ARG:HD3	33:BL:81:ASP:HB2	1.78	0.66
34:BM:22:GLN:HG2	34:BM:23:GLY:N	2.11	0.66
23:DB:143:C:O5'	23:DB:143:C:H6	1.79	0.66
23:DB:65:U:H2'	23:DB:66:C:H6	1.61	0.66
1:CA:1024:G:O2'	1:CA:1025:U:H5'	1.94	0.66
23:DB:289:G:H2'	23:DB:290:U:H6	1.58	0.66
26:BD:35:THR:HB	26:BD:48:ILE:HB	1.76	0.66
39:DR:41:ILE:HG13	39:DR:43:ASN:HD22	1.61	0.66
48:B1:15:GLY:H	48:B1:47:ILE:HD12	1.60	0.66
20:CB:137:THR:HA	20:CB:140:LEU:HD12	1.77	0.66
1:CA:1513:A:H2'	1:CA:1514:G:H8	1.60	0.66
3:AD:56:GLU:HG2	3:AD:195:ASN:HD22	1.60	0.66
1:AA:239:U:C5'	1:AA:239:U:H6	2.08	0.66
5:CF:47:LEU:HD21	5:CF:57:ALA:HB2	1.77	0.66
1:AA:16:A:O2'	1:AA:17:U:H5'	1.95	0.66
22:DA:47:C:H5'	36:DO:97:PHE:CZ	2.31	0.66
40:DS:84:ARG:HH21	40:DS:98:LYS:NZ	1.94	0.66
1:CA:586:C:O2'	1:CA:587:G:H5'	1.95	0.66
23:DB:414:C:H2'	23:DB:415:A:H8	1.59	0.66
28:BF:34:THR:HG23	28:BF:89:THR:HG22	1.76	0.66
23:DB:2591:C:H2'	23:DB:2592:G:C8	2.31	0.66
1:CA:539:A:H2'	1:CA:540:G:C8	2.30	0.66
12:CM:73:SER:HB3	12:CM:77:LYS:HE2	1.77	0.66
23:DB:235:U:H2'	23:DB:236:C:C6	2.30	0.66
23:BB:1219:U:H2'	23:BB:1220:G:C8	2.30	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:49:ASP:HB3	44:BX:52:ARG:HH21	1.59	0.66
1:CA:1462:C:H4'	37:DP:110:LYS:HE2	1.77	0.66
31:BJ:24:THR:HB	31:BJ:27:ARG:HB2	1.78	0.66
23:BB:2461:A:H2'	23:BB:2462:C:H6	1.59	0.66
35:BN:28:LEU:H	35:BN:28:LEU:HD12	1.61	0.66
26:DD:95:SER:C	26:DD:96:ILE:HG13	2.16	0.66
23:BB:142:A:H2'	23:BB:143:C:C6	2.31	0.66
10:CK:12:ARG:N	10:CK:76:TYR:HA	2.10	0.66
23:BB:2246:G:H2'	23:BB:2247:A:C8	2.30	0.66
29:BG:86:LEU:HB2	29:BG:130:ILE:HB	1.76	0.66
6:CG:42:VAL:O	6:CG:46:LEU:HB2	1.96	0.66
1:AA:1300:G:H1'	1:AA:1301:U:C5	2.31	0.66
12:CM:78:ARG:O	12:CM:82:LEU:HG	1.95	0.66
23:DB:304:U:H2'	23:DB:305:C:C6	2.31	0.66
52:BI:91:LYS:HB2	52:BI:94:LYS:HD2	1.78	0.66
1:CA:997:U:H2'	1:CA:998:C:C6	2.30	0.66
44:DX:11:VAL:HG12	44:DX:13:GLU:H	1.60	0.66
37:DP:71:ARG:O	37:DP:72:VAL:HG22	1.96	0.66
31:BJ:71:ASP:CG	31:BJ:72:LYS:N	2.47	0.66
23:DB:813:U:H2'	23:DB:814:C:C6	2.31	0.66
30:BH:26:ALA:HA	30:BH:30:LEU:HB2	1.77	0.66
26:BD:170:VAL:HG13	26:BD:171:THR:N	2.08	0.66
5:CF:35:LYS:O	5:CF:64:VAL:HG13	1.95	0.66
39:BR:23:GLU:HA	39:BR:96:VAL:HG13	1.77	0.66
2:AC:154:GLY:HA3	2:AC:162:ALA:HB1	1.75	0.66
23:BB:1060:U:OP2	52:BI:74:PRO:HA	1.95	0.66
8:CI:14:SER:HA	8:CI:68:GLY:O	1.96	0.66
31:DJ:97:PRO:O	31:DJ:100:VAL:HG12	1.96	0.66
1:CA:1422:G:O2'	1:CA:1423:G:H5'	1.95	0.66
46:DZ:27:THR:O	46:DZ:28:VAL:HG13	1.96	0.66
23:DB:728:G:H1'	25:DC:16:VAL:HG21	1.77	0.66
16:CQ:45:VAL:HG21	16:CQ:60:ILE:HG21	1.77	0.66
25:BC:204:LEU:HB3	25:BC:210:ALA:HB1	1.78	0.66
23:BB:1645:G:H5''	23:BB:1646:C:H5'	1.78	0.66
1:CA:960:U:O2'	1:CA:1223:C:H5'	1.96	0.66
23:BB:594:U:H2'	23:BB:595:C:H6	1.60	0.66
11:AL:106:VAL:HG22	11:AL:116:TYR:HB3	1.76	0.66
33:BL:142:ILE:HG13	33:BL:143:GLU:N	2.10	0.66
24:DV:53:LYS:HZ2	24:DV:55:GLU:HG2	1.60	0.66
28:BF:125:GLY:HA3	28:BF:159:ALA:HB3	1.77	0.66
1:AA:56:U:H2'	1:AA:57:G:H8	1.61	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:6:ILE:HA	9:AJ:102:LEU:HG	1.78	0.66
42:DU:22:GLY:HA3	42:DU:35:VAL:HG23	1.78	0.66
4:CE:81:GLN:HE22	4:CE:148:SER:HA	1.61	0.66
23:BB:564:C:O2'	23:BB:565:C:H5'	1.95	0.66
1:CA:105:G:H2'	1:CA:106:C:C6	2.31	0.66
11:AL:42:LYS:HE3	11:AL:90:PRO:HD3	1.78	0.66
1:CA:1132:C:H2'	1:CA:1133:G:C8	2.30	0.66
37:BP:38:ARG:HG3	37:BP:39:LEU:H	1.61	0.66
7:AH:55:LYS:HA	7:AH:55:LYS:HE3	1.77	0.66
34:DM:55:ARG:O	34:DM:57:VAL:HG23	1.96	0.65
51:D4:2:LYS:HB2	51:D4:2:LYS:NZ	2.10	0.65
23:BB:691:C:H4'	25:BC:42:ARG:NE	2.11	0.65
35:DN:45:ARG:NH2	35:DN:113:ILE:HG23	2.04	0.65
35:DN:45:ARG:CZ	35:DN:95:THR:HB	2.26	0.65
25:DC:161:VAL:HG12	25:DC:173:LEU:HD22	1.77	0.65
23:BB:857:G:C2'	23:BB:858:G:H5'	2.26	0.65
38:BQ:85:ALA:CB	38:BQ:88:GLU:HB2	2.26	0.65
13:CN:11:LYS:O	13:CN:15:LEU:HG	1.96	0.65
23:BB:2049:G:O2'	23:BB:2050:C:H5'	1.96	0.65
26:BD:167:ASN:H	26:BD:167:ASN:HD22	1.43	0.65
4:CE:131:ASN:O	4:CE:135:VAL:HG23	1.95	0.65
23:BB:704:G:H1'	23:BB:727:A:H61	1.60	0.65
1:CA:376:G:H4'	15:CP:5:ARG:HD3	1.78	0.65
13:AN:30:ILE:HB	13:AN:44:VAL:HG11	1.78	0.65
25:DC:20:ASN:HB2	25:DC:202:ARG:HD3	1.78	0.65
41:BT:77:ARG:HG2	41:BT:78:SER:H	1.60	0.65
5:AF:86:ARG:NH1	17:AR:63:TYR:HB3	2.11	0.65
24:DV:2:PHE:HB2	24:DV:61:LEU:HD22	1.78	0.65
44:DX:31:GLN:HE21	44:DX:31:GLN:HA	1.59	0.65
23:BB:1534:U:HO2'	23:BB:1535:A:H8	1.42	0.65
2:CC:166:TRP:CG	2:CC:167:TYR:N	2.65	0.65
31:DJ:18:VAL:O	31:DJ:56:VAL:HA	1.96	0.65
23:BB:2758:A:H2'	23:BB:2759:G:O4'	1.96	0.65
23:DB:2295:C:O2'	23:DB:2296:U:H5'	1.96	0.65
1:CA:1119:C:H2'	1:CA:1120:C:H6	1.60	0.65
23:BB:869:G:H2'	23:BB:870:U:H6	1.61	0.65
39:DR:74:ILE:HG13	39:DR:76:LYS:HG3	1.78	0.65
9:AJ:37:ARG:NE	9:AJ:77:VAL:HG11	2.12	0.65
31:DJ:41:LYS:HZ3	31:DJ:45:THR:HA	1.62	0.65
1:CA:1320:C:OP1	18:CS:69:LYS:HE3	1.96	0.65
35:BN:49:GLU:HB2	35:BN:50:PRO:HD3	1.77	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2027:G:O2'	23:BB:2028:U:H5'	1.96	0.65
51:D4:3:VAL:HG12	51:D4:4:ARG:N	2.07	0.65
43:DW:19:ARG:NH1	43:DW:19:ARG:HB2	2.11	0.65
26:DD:146:ILE:HG12	26:DD:155:VAL:HG13	1.76	0.65
4:CE:87:VAL:HG13	4:CE:88:HIS:N	2.10	0.65
21:AU:39:LYS:N	21:AU:40:PRO:HD2	2.10	0.65
45:BY:6:ILE:HD13	45:BY:6:ILE:H	1.61	0.65
23:DB:2012:G:H4'	40:DS:96:ILE:HD11	1.78	0.65
23:DB:2443:C:H2'	23:DB:2444:G:C8	2.31	0.65
1:CA:501:C:H2'	1:CA:502:A:C8	2.31	0.65
1:CA:37:U:OP1	11:CL:120:ARG:HB3	1.96	0.65
1:CA:1060:U:H2'	1:CA:1061:G:H8	1.61	0.65
23:BB:1076:C:H4'	52:BI:94:LYS:NZ	2.11	0.65
23:BB:1533:C:O2'	23:BB:1534:U:H5'	1.95	0.65
1:AA:105:G:H2'	1:AA:106:C:C6	2.31	0.65
23:BB:6:A:H2'	23:BB:7:G:H8	1.62	0.65
1:AA:312:C:H2'	1:AA:313:A:C8	2.30	0.65
37:DP:50:ARG:HH12	37:DP:62:LYS:HB2	1.59	0.65
25:BC:139:THR:HA	25:BC:193:GLU:OE1	1.96	0.65
26:DD:46:ARG:HA	26:DD:82:PHE:HA	1.79	0.65
43:BW:44:PHE:O	43:BW:75:ASN:HB3	1.96	0.65
46:DZ:5:ILE:O	46:DZ:51:VAL:HG13	1.96	0.65
34:DM:40:ARG:HA	34:DM:92:TRP:HE1	1.62	0.65
23:DB:1197:G:H2'	23:DB:1198:U:H6	1.62	0.65
26:DD:146:ILE:N	26:DD:146:ILE:HD12	2.11	0.65
26:DD:151:THR:O	26:DD:153:GLY:N	2.28	0.65
23:DB:2027:G:O2'	23:DB:2028:U:H5'	1.96	0.65
10:CK:88:PRO:CD	21:CU:28:LEU:HD13	2.26	0.65
25:BC:21:PRO:O	25:BC:22:GLU:HB2	1.96	0.65
23:DB:899:A:H3'	23:DB:900:A:C8	2.30	0.65
1:AA:93:U:H3'	1:AA:94:G:H5'	1.78	0.65
1:CA:389:A:H3'	1:CA:390:U:H6	1.61	0.65
23:DB:1590:A:H2'	23:DB:1591:A:C8	2.32	0.65
23:DB:2307:G:H2'	23:DB:2307:G:N3	2.11	0.65
23:BB:1590:A:H2'	23:BB:1591:A:C8	2.32	0.65
3:CD:30:LYS:HB2	3:CD:30:LYS:HZ2	1.61	0.65
20:CB:208:ALA:O	20:CB:211:LEU:HB3	1.96	0.65
1:CA:518:C:H2'	1:CA:530:G:C8	2.31	0.65
23:DB:181:A:H1'	23:DB:435:C:H5'	1.78	0.65
44:BX:9:LYS:HE3	44:BX:11:VAL:HG13	1.78	0.65
23:DB:1381:G:C2'	23:DB:1382:G:H5'	2.26	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DU:59:GLU:HG2	42:DU:60:LYS:N	2.10	0.65
42:BU:7:ASP:CA	42:BU:24:VAL:HA	2.26	0.65
23:BB:1112:G:H4'	29:BG:2:ARG:HG2	1.78	0.65
34:BM:3:GLN:CD	34:BM:5:LYS:H	1.98	0.65
47:D0:41:HIS:HB3	47:D0:47:TYR:H	1.62	0.65
23:DB:4:U:H2'	23:DB:5:A:C8	2.31	0.65
27:BE:130:LYS:HA	27:BE:130:LYS:HE2	1.77	0.65
20:AB:52:ALA:O	20:AB:56:LEU:HD13	1.96	0.65
47:B0:2:VAL:HG22	47:B0:3:GLN:N	2.11	0.65
1:CA:1343:G:H2'	1:CA:1344:C:C6	2.31	0.65
33:DL:63:LYS:HB2	50:D3:26:ALA:HB2	1.78	0.65
26:DD:122:VAL:HG21	26:DD:141:ARG:HD3	1.78	0.65
26:BD:92:VAL:HG22	26:BD:94:GLN:HB2	1.78	0.65
13:CN:31:SER:HA	13:CN:40:ARG:HA	1.77	0.65
8:CI:94:ARG:HD3	8:CI:97:LEU:HD12	1.79	0.65
25:BC:10:PRO:HD2	25:BC:202:ARG:NH1	2.11	0.65
23:BB:95:A:H4'	44:BX:40:SER:HB3	1.78	0.65
47:D0:27:LEU:N	47:D0:27:LEU:HD22	2.11	0.65
23:BB:2008:C:H2'	23:BB:2009:A:C8	2.31	0.65
23:BB:936:A:H2'	23:BB:937:C:C6	2.30	0.65
23:DB:1714:U:H3'	23:DB:1715:G:H5'	1.77	0.65
23:DB:2461:A:H2'	23:DB:2462:C:H6	1.60	0.65
29:DG:39:ALA:O	29:DG:41:GLU:HG3	1.96	0.65
24:BV:76:ASP:HB2	34:BM:136:MET:HG3	1.78	0.65
28:BF:110:ILE:HG22	28:BF:112:ASP:H	1.61	0.65
23:DB:225:C:O2'	23:DB:226:A:H5'	1.97	0.65
23:BB:710:U:H2'	23:BB:711:G:H8	1.61	0.65
1:AA:1381:U:O2'	1:AA:1382:C:H5'	1.97	0.65
25:DC:32:LEU:HA	25:DC:81:GLU:OE2	1.96	0.65
11:AL:37:TYR:HB2	11:AL:51:VAL:HG23	1.79	0.65
38:DQ:9:ALA:O	38:DQ:12:ARG:HB3	1.97	0.65
44:BX:5:GLU:H	44:BX:7:ARG:HE	1.44	0.65
37:BP:52:ARG:HG2	37:BP:54:LEU:HB2	1.77	0.65
15:AP:42:ILE:HG22	15:AP:43:ALA:N	2.12	0.65
13:AN:12:ARG:HH11	13:AN:60:ARG:NH1	1.94	0.65
36:DO:4:LYS:HD2	36:DO:5:SER:N	2.12	0.65
50:D3:49:VAL:HG22	50:D3:50:SER:N	2.08	0.65
40:BS:17:VAL:HA	40:BS:43:ALA:HB1	1.77	0.65
38:BQ:47:ARG:O	38:BQ:51:GLN:HB3	1.97	0.65
42:BU:44:HIS:HB2	42:BU:56:GLY:N	2.11	0.65
27:DE:1:MET:HG3	27:DE:18:THR:OG1	1.96	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:967:C:OP1	1:AA:969:A:H5'	1.97	0.65
52:DI:108:ILE:HG22	52:DI:128:ILE:HD13	1.79	0.65
23:DB:1645:G:H5''	23:DB:1646:C:H5'	1.78	0.65
1:CA:190:A:O5'	1:CA:190:A:H8	1.80	0.65
18:CS:62:THR:H	18:CS:65:MET:HE3	1.62	0.65
23:BB:2591:C:H2'	23:BB:2592:G:C8	2.31	0.65
1:CA:1132:C:H2'	1:CA:1133:G:H8	1.61	0.65
20:CB:153:MET:SD	20:CB:157:PRO:HD3	2.35	0.65
23:DB:1360:G:H2'	23:DB:1361:G:H5'	1.79	0.65
23:BB:1856:U:H2'	23:BB:1857:G:O4'	1.96	0.65
2:AC:88:LYS:HD3	2:AC:88:LYS:O	1.97	0.65
12:CM:48:SER:H	12:CM:51:GLN:HE22	1.43	0.65
29:DG:169:ARG:NH1	29:DG:169:ARG:HB2	2.10	0.65
22:DA:5:U:H2'	22:DA:6:G:H8	1.61	0.65
23:DB:587:C:C3'	33:DL:29:LYS:HD2	2.13	0.65
23:BB:2204:G:C5'	25:BC:149:LYS:HE3	2.21	0.65
47:D0:47:TYR:HB3	47:D0:52:LYS:N	2.11	0.65
36:DO:25:ARG:HE	36:DO:94:ARG:NH1	1.94	0.65
23:BB:1155:A:H61	45:BY:10:ARG:NH1	1.94	0.65
27:BE:190:ALA:HB1	27:BE:193:VAL:HB	1.79	0.65
33:DL:59:ARG:NH1	50:D3:58:ILE:HG21	2.12	0.65
23:BB:2784:U:H5''	26:BD:41:ALA:HB1	1.79	0.65
52:DI:32:VAL:HG22	52:DI:60:VAL:HG21	1.78	0.65
14:AO:81:ILE:HA	14:AO:86:LEU:HD12	1.78	0.65
2:AC:19:SER:HB2	2:AC:39:ARG:HH22	1.61	0.65
2:AC:72:PRO:O	2:AC:76:ILE:HG12	1.95	0.65
23:BB:2876:G:H4'	37:BP:2:ASN:HA	1.77	0.65
23:BB:423:A:H5'	23:BB:424:G:C5'	2.26	0.65
41:BT:64:LYS:HB3	41:BT:77:ARG:HH11	1.60	0.65
20:AB:112:ARG:O	20:AB:116:LEU:HB2	1.96	0.65
1:CA:163:C:H2'	1:CA:164:G:O4'	1.97	0.65
23:DB:1856:U:H2'	23:DB:1857:G:O4'	1.96	0.65
36:BO:98:GLN:O	36:BO:103:VAL:HG21	1.97	0.65
5:CF:39:LEU:HD22	5:CF:39:LEU:O	1.97	0.65
23:BB:2133:G:N3	23:BB:2133:G:H2'	2.10	0.65
1:AA:1118:U:H1'	1:AA:1179:A:C4	2.31	0.65
23:DB:25:U:H5''	40:DS:80:PRO:HD3	1.78	0.65
20:AB:185:ILE:HA	20:AB:199:ILE:HB	1.78	0.65
35:DN:42:LYS:HE3	35:DN:42:LYS:HA	1.78	0.65
25:DC:171:VAL:HA	25:DC:183:VAL:O	1.97	0.65
31:BJ:58:ASN:HA	31:BJ:126:ALA:HA	1.78	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:128:ALA:HA	27:BE:157:LEU:HD22	1.79	0.65
33:BL:63:LYS:HG2	50:B3:11:LYS:HA	1.77	0.65
39:BR:75:VAL:H	39:BR:90:ARG:HE	1.43	0.65
41:DT:48:GLN:CA	41:DT:53:VAL:HG22	2.25	0.65
9:CJ:56:HIS:O	9:CJ:57:VAL:HG12	1.96	0.65
32:DK:99:ILE:HD13	32:DK:115:ILE:HG13	1.78	0.65
28:DF:83:PRO:O	28:DF:84:ILE:HD12	1.96	0.65
29:DG:53:PRO:HG2	29:DG:61:TRP:CZ3	2.32	0.65
16:CQ:10:ARG:NH2	16:CQ:11:VAL:HB	2.11	0.65
28:BF:107:VAL:N	28:BF:108:PRO:HD2	2.12	0.65
23:DB:179:C:H5''	49:D2:28:ARG:HH12	1.60	0.65
35:DN:107:ASN:HD22	40:DS:40:ASN:HD22	1.43	0.65
23:BB:1901:A:H1'	25:BC:250:GLN:HE22	1.60	0.65
1:AA:1171:A:H2'	1:AA:1172:C:H6	1.62	0.65
12:CM:74:MET:HE2	12:CM:77:LYS:HD2	1.79	0.65
1:AA:312:C:H2'	1:AA:313:A:H8	1.62	0.65
1:CA:1527:U:H2'	1:CA:1528:U:C6	2.31	0.65
23:DB:222:A:N6	23:DB:232:G:H1'	2.12	0.65
23:BB:813:U:H2'	23:BB:814:C:C6	2.32	0.65
23:BB:958:U:C4	34:BM:18:ARG:HB2	2.31	0.65
5:AF:17:GLN:HG2	5:AF:21:MET:HG3	1.78	0.65
28:BF:18:GLU:O	28:BF:19:PHE:HB3	1.97	0.65
10:CK:115:ILE:HD12	10:CK:115:ILE:O	1.96	0.65
1:CA:882:C:O2'	1:CA:883:C:H5'	1.96	0.65
23:BB:161:A:C3'	23:BB:162:U:H5''	2.19	0.65
26:DD:1:MET:HB2	26:DD:81:GLU:OE1	1.97	0.65
33:BL:77:ILE:HB	33:BL:110:VAL:CG2	2.26	0.65
23:DB:139:U:H3'	23:DB:139:U:P	2.37	0.65
19:AT:68:LYS:CG	19:AT:69:ASN:H	2.05	0.65
12:AM:44:ILE:HA	12:AM:47:LEU:HD13	1.79	0.65
3:CD:141:VAL:HG12	3:CD:180:THR:HA	1.77	0.65
26:DD:48:ILE:HG22	26:DD:49:GLN:N	2.12	0.65
33:DL:77:ILE:HB	33:DL:110:VAL:HA	1.77	0.65
23:DB:1262:A:H2	47:D0:6:LYS:HD2	1.62	0.65
39:DR:6:GLN:NE2	39:DR:41:ILE:HB	2.12	0.65
14:AO:70:LYS:HZ1	14:AO:74:VAL:HG13	1.62	0.65
35:DN:73:ASN:O	35:DN:76:VAL:HG12	1.96	0.65
5:CF:53:LYS:HD3	5:CF:54:LEU:HB2	1.79	0.65
1:AA:1471:U:O2'	1:AA:1472:U:H5'	1.97	0.65
23:DB:1515:A:H2'	23:DB:1516:G:O4'	1.97	0.65
23:DB:2537:U:H2'	23:DB:2538:C:H6	1.60	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:53:GLU:OE1	30:DH:57:LYS:HD2	1.96	0.65
1:CA:1380:U:O4	6:CG:2:ARG:HB2	1.97	0.65
22:DA:5:U:H2'	22:DA:6:G:C8	2.32	0.65
27:BE:84:THR:HG23	27:BE:85:PHE:H	1.61	0.65
10:AK:30:ILE:HG22	10:AK:45:THR:HA	1.79	0.65
8:CI:33:SER:H	8:CI:36:GLN:HB2	1.61	0.65
49:B2:25:LYS:HE3	49:B2:25:LYS:N	2.10	0.65
1:CA:372:C:H1'	1:CA:373:A:OP2	1.97	0.65
1:CA:1191:A:OP1	2:CC:3:LYS:HG3	1.97	0.65
1:CA:1069:C:H4'	1:CA:1192:C:O2	1.97	0.65
1:CA:1386:G:H2'	1:CA:1387:G:H8	1.61	0.65
23:DB:1105:U:H2'	23:DB:1106:G:H8	1.60	0.65
1:AA:882:C:O2'	1:AA:883:C:H5'	1.96	0.65
1:AA:163:C:H2'	1:AA:164:G:O4'	1.97	0.65
6:CG:15:PRO:HG2	6:CG:43:TYR:OH	1.96	0.65
23:BB:1979:U:O2'	23:BB:1980:G:H5'	1.96	0.65
25:BC:117:SER:HB3	25:BC:127:ASN:ND2	2.12	0.65
47:D0:29:VAL:HB	47:D0:34:GLY:HA2	1.77	0.65
35:DN:38:LEU:HB3	35:DN:39:PRO:HD3	1.78	0.65
25:DC:170:TYR:O	25:DC:171:VAL:HG13	1.96	0.65
31:BJ:17:VAL:HG23	31:BJ:139:VAL:HB	1.79	0.65
43:BW:57:THR:O	43:BW:58:LEU:HB3	1.96	0.65
27:DE:149:ILE:HD11	27:DE:188:MET:N	2.12	0.65
46:BZ:32:LEU:HD11	46:BZ:47:LYS:HG3	1.78	0.65
38:BQ:16:ILE:HD13	38:BQ:34:ALA:HB2	1.77	0.65
34:DM:71:LYS:HZ3	34:DM:91:TYR:HB3	1.61	0.65
23:DB:1368:G:H5''	49:D2:25:LYS:CG	2.23	0.65
26:DD:33:ARG:O	26:DD:34:VAL:HG22	1.96	0.65
13:CN:25:GLU:O	13:CN:29:ILE:HG13	1.97	0.65
4:CE:87:VAL:HG13	4:CE:88:HIS:H	1.61	0.65
42:DU:11:ILE:HG22	42:DU:12:VAL:H	1.61	0.65
23:BB:277:G:H5''	23:BB:278:A:N7	2.12	0.65
29:DG:10:VAL:HA	29:DG:14:VAL:HG11	1.77	0.65
48:D1:24:LYS:C	48:D1:24:LYS:HZ2	1.99	0.65
23:DB:2285:C:C5	48:D1:7:LYS:HE3	2.32	0.65
29:BG:157:LYS:HB2	29:BG:159:LYS:HG2	1.78	0.65
28:DF:7:TYR:O	28:DF:12:VAL:HG23	1.97	0.65
23:BB:416:U:H2'	23:BB:417:C:C6	2.31	0.65
1:CA:1270:G:H2'	1:CA:1271:A:C8	2.32	0.65
6:CG:63:VAL:HG12	6:CG:126:ALA:HB1	1.78	0.65
1:CA:1036:A:H2'	1:CA:1037:C:C6	2.31	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:4:U:H2'	23:DB:5:A:H8	1.60	0.65
38:DQ:50:ARG:CZ	38:DQ:50:ARG:HA	2.26	0.65
30:BH:3:VAL:HB	30:BH:37:VAL:CB	2.26	0.65
23:DB:144:A:C2	41:DT:3:ARG:NH2	2.65	0.65
31:DJ:41:LYS:HD2	31:DJ:44:TYR:HB3	1.79	0.65
1:AA:1295:U:H2'	1:AA:1296:C:C6	2.32	0.65
10:AK:22:ILE:HD13	10:AK:95:THR:CG2	2.27	0.65
25:DC:224:MET:CA	25:DC:233:GLY:H	2.09	0.65
23:DB:2286:G:H1	48:D1:23:THR:CG2	2.10	0.65
24:DV:25:LYS:HE2	24:DV:41:GLU:CB	2.27	0.65
4:CE:109:ALA:HB1	4:CE:136:VAL:HG13	1.77	0.65
46:DZ:24:ILE:HD13	46:DZ:24:ILE:N	2.11	0.65
7:CH:11:THR:HA	7:CH:14:ARG:NH1	2.11	0.65
23:DB:1179:G:H2'	23:DB:1180:U:H6	1.62	0.65
39:BR:24:LYS:HD3	39:BR:66:HIS:NE2	2.12	0.65
39:BR:65:ALA:HB3	39:BR:99:THR:H	1.61	0.65
37:BP:38:ARG:HH11	37:BP:38:ARG:HA	1.62	0.65
23:DB:224:U:O4	23:DB:420:C:H5'	1.97	0.65
23:DB:1979:U:O2'	23:DB:1980:G:H5'	1.96	0.65
20:AB:141:GLU:O	20:AB:145:ASN:HB2	1.97	0.65
13:AN:27:LYS:HE2	13:AN:48:GLN:HE22	1.62	0.65
23:DB:936:A:H2'	23:DB:937:C:C6	2.32	0.65
37:DP:50:ARG:HB2	37:DP:50:ARG:HH11	1.61	0.64
23:BB:1113:U:H5''	29:BG:1:SER:CA	2.27	0.64
23:DB:1821:A:H5'	25:DC:155:ARG:HH21	1.61	0.64
23:DB:1820:U:H3	25:DC:197:ALA:CB	2.10	0.64
23:BB:2365:G:H4'	43:BW:65:LYS:NZ	2.12	0.64
46:BZ:66:ILE:HB	46:BZ:67:PRO:HD3	1.80	0.64
25:DC:179:GLU:CD	25:DC:266:ILE:HA	2.17	0.64
5:CF:1:MET:SD	5:CF:67:PRO:HD3	2.37	0.64
31:BJ:39:LYS:NZ	38:BQ:69:ARG:HD2	2.11	0.64
12:AM:9:PRO:O	12:AM:44:ILE:HG12	1.97	0.64
23:BB:144:A:H2'	23:BB:145:C:C6	2.29	0.64
23:DB:2051:A:H4'	26:DD:145:SER:HB2	1.80	0.64
23:BB:2784:U:H2'	23:BB:2785:C:H6	1.61	0.64
23:BB:2144:G:H22	23:BB:2148:G:H1'	1.62	0.64
8:CI:98:ARG:HG2	8:CI:103:VAL:HG11	1.78	0.64
20:CB:112:ARG:O	20:CB:116:LEU:HB2	1.97	0.64
1:AA:946:A:H2'	1:AA:947:G:H8	1.60	0.64
1:AA:87:C:H2'	1:AA:88:U:H4'	1.76	0.64
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.32	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1548:A:H2'	23:BB:1549:A:H8	1.63	0.64
23:DB:2484:G:H1'	34:DM:119:LEU:HD12	1.80	0.64
1:AA:190:A:H2'	1:AA:191:G:O4'	1.96	0.64
29:BG:84:LYS:HZ2	29:BG:85:LYS:N	1.95	0.64
46:DZ:17:SER:H	46:DZ:21:VAL:CG1	2.10	0.64
1:AA:205:A:H2'	1:AA:206:C:H6	1.61	0.64
1:CA:312:C:H2'	1:CA:313:A:H8	1.62	0.64
32:BK:17:ARG:HD2	32:BK:18:ARG:H	1.62	0.64
23:DB:93:G:H2'	23:DB:94:A:O4'	1.98	0.64
33:BL:111:ILE:H	33:BL:111:ILE:HD13	1.62	0.64
6:AG:44:SER:O	6:AG:48:THR:HG23	1.97	0.64
1:AA:997:U:O2'	1:AA:998:C:H5'	1.97	0.64
23:DB:536:G:C5'	38:DQ:52:ARG:HH22	2.10	0.64
30:BH:6:LEU:HD12	30:BH:15:LEU:HA	1.78	0.64
50:B3:29:ARG:HA	50:B3:33:THR:HG23	1.79	0.64
23:BB:396:G:H4'	46:BZ:28:VAL:CG2	2.25	0.64
8:AI:18:VAL:HG22	8:AI:64:ILE:HG12	1.79	0.64
34:DM:41:LEU:O	34:DM:93:VAL:HB	1.97	0.64
5:CF:66:ALA:HB1	5:CF:67:PRO:HD2	1.79	0.64
27:BE:141:MET:SD	27:BE:143:LEU:HB2	2.37	0.64
46:BZ:36:VAL:HA	46:BZ:42:PRO:CB	2.23	0.64
18:AS:4:LEU:HD13	18:AS:9:PHE:N	2.10	0.64
26:BD:115:GLY:CA	26:BD:165:MET:HG3	2.27	0.64
23:DB:2025:C:H2'	23:DB:2026:U:C6	2.33	0.64
26:BD:38:LYS:H	26:BD:38:LYS:HE2	1.62	0.64
52:BI:109:ALA:HB1	52:BI:124:MET:HG3	1.79	0.64
23:DB:1149:G:H2'	23:DB:1150:C:H6	1.61	0.64
29:DG:10:VAL:N	29:DG:11:PRO:HD3	2.12	0.64
23:BB:2814:A:H2'	23:BB:2815:C:C6	2.32	0.64
1:AA:501:C:H2'	1:AA:502:A:C8	2.31	0.64
35:BN:99:LYS:HE2	47:B0:38:LEU:O	1.96	0.64
7:AH:64:TYR:HB3	7:AH:69:ALA:HA	1.79	0.64
23:DB:1179:G:H2'	23:DB:1180:U:C6	2.32	0.64
1:CA:190:A:H2'	1:CA:191:G:O4'	1.96	0.64
20:AB:119:GLN:O	20:AB:124:THR:HG23	1.97	0.64
23:BB:1447:C:H2'	23:BB:1448:G:H8	1.61	0.64
23:DB:2852:G:H2'	23:DB:2853:C:C6	2.32	0.64
23:BB:1935:G:H1'	23:BB:1964:G:N2	2.12	0.64
1:AA:913:A:O2'	1:AA:914:A:O5'	2.13	0.64
43:BW:48:ALA:HA	43:BW:54:ARG:N	2.10	0.64
50:B3:26:ALA:HB1	50:B3:29:ARG:CG	2.26	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:32:LEU:HD22	46:BZ:33:ASN:N	2.12	0.64
34:BM:96:ILE:HG23	34:BM:97:GLN:N	2.10	0.64
25:BC:65:ASP:OD2	25:BC:101:ARG:HB3	1.98	0.64
5:CF:29:ILE:HG22	5:CF:34:GLY:HA3	1.78	0.64
31:BJ:39:LYS:HE2	31:BJ:39:LYS:HA	1.79	0.64
23:BB:142:A:N3	41:BT:2:ILE:HG23	2.11	0.64
1:AA:376:G:H5''	15:AP:5:ARG:CB	2.26	0.64
26:BD:37:VAL:HG22	26:BD:46:ARG:NE	2.11	0.64
1:CA:1080:A:H4'	4:CE:20:VAL:HG21	1.78	0.64
1:CA:952:U:H2'	1:CA:953:G:H8	1.62	0.64
12:CM:102:LYS:NZ	12:CM:102:LYS:HB2	2.12	0.64
36:DO:30:ARG:HG2	36:DO:31:THR:H	1.62	0.64
23:BB:1515:A:H2'	23:BB:1516:G:O4'	1.97	0.64
1:AA:389:A:H3'	1:AA:390:U:H6	1.62	0.64
50:D3:4:LYS:HZ2	50:D3:60:CYS:H	1.43	0.64
15:AP:4:ILE:HD12	15:AP:66:THR:O	1.97	0.64
23:DB:2197:U:O2'	23:DB:2198:A:H2'	1.97	0.64
23:BB:6:A:H2'	23:BB:7:G:C8	2.33	0.64
2:CC:2:GLN:HE21	2:CC:2:GLN:N	1.96	0.64
23:DB:418:C:H2'	23:DB:419:U:C6	2.33	0.64
1:CA:1244:G:H2'	1:CA:1245:C:C6	2.32	0.64
23:BB:2287:A:O2'	23:BB:2288:A:H2'	1.98	0.64
1:AA:372:C:H1'	1:AA:373:A:OP2	1.97	0.64
23:DB:1354:A:H2'	23:DB:1355:G:O4'	1.97	0.64
1:CA:1373:G:H5''	6:CG:35:LYS:HB2	1.78	0.64
1:CA:89:U:H2'	1:CA:90:C:C6	2.33	0.64
20:CB:15:PHE:HB3	20:CB:42:LEU:HD11	1.78	0.64
25:BC:67:LYS:HG3	25:BC:68:ARG:N	2.12	0.64
23:DB:2814:A:H2'	23:DB:2815:C:C6	2.32	0.64
30:BH:5:LEU:HD13	30:BH:37:VAL:HG11	1.80	0.64
1:CA:1001:C:H2'	1:CA:1002:G:C8	2.33	0.64
39:BR:47:VAL:HG22	39:BR:48:LYS:HG2	1.79	0.64
1:AA:1294:G:H2'	1:AA:1295:U:H6	1.60	0.64
44:BX:19:LEU:HA	44:BX:22:LEU:HB2	1.78	0.64
23:BB:1181:U:H2'	23:BB:1182:G:H8	1.62	0.64
47:B0:52:LYS:NZ	47:B0:52:LYS:HA	2.12	0.64
35:BN:118:ARG:HG2	47:B0:52:LYS:HE2	1.79	0.64
52:BI:20:SER:O	52:BI:25:PRO:HD2	1.98	0.64
22:BA:20:G:H2'	22:BA:21:G:C8	2.32	0.64
1:AA:441:A:H61	1:AA:493:A:H62	1.45	0.64
23:BB:1387:A:H2'	23:BB:1388:G:H8	1.63	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CS:41:PRO:HA	18:CS:44:ILE:HG13	1.79	0.64
2:CC:2:GLN:H	2:CC:2:GLN:HE21	1.44	0.64
32:DK:61:VAL:HG13	32:DK:87:LEU:HD11	1.80	0.64
32:BK:5:GLN:O	32:BK:21:CYS:HB3	1.98	0.64
1:AA:1513:A:H2'	1:AA:1514:G:C8	2.32	0.64
23:BB:840:C:O2'	23:BB:841:G:H5'	1.97	0.64
23:BB:2155:U:H2'	23:BB:2156:G:O4'	1.98	0.64
51:D4:23:ILE:CD1	51:D4:24:ARG:H	2.11	0.64
25:DC:107:LYS:HE3	25:DC:108:GLY:N	2.05	0.64
23:BB:855:G:H21	43:BW:23:LYS:CD	2.09	0.64
23:DB:86:G:OP1	42:DU:30:SER:HB3	1.97	0.64
27:DE:115:GLN:HB3	27:DE:117:ARG:NH1	2.12	0.64
23:BB:639:U:H2'	23:BB:640:C:C6	2.33	0.64
23:BB:2575:C:H5''	26:BD:149:ASN:H	1.61	0.64
39:DR:63:VAL:HG22	39:DR:64:VAL:N	2.07	0.64
35:BN:7:GLY:O	35:BN:8:ARG:HB2	1.96	0.64
1:CA:1103:C:O2	20:CB:105:THR:HG21	1.97	0.64
10:AK:95:THR:HG23	10:AK:96:ILE:H	1.62	0.64
30:DH:127:GLU:HA	30:DH:144:VAL:O	1.97	0.64
26:BD:120:GLY:N	26:BD:123:LYS:HG3	2.13	0.64
25:DC:52:HIS:O	25:DC:53:ILE:HB	1.96	0.64
25:BC:227:VAL:HG12	25:BC:228:ASP:OD1	1.98	0.64
28:DF:56:LEU:HD22	28:DF:88:VAL:HG21	1.80	0.64
34:DM:131:VAL:HG22	34:DM:133:LYS:N	2.12	0.64
23:BB:28:A:H61	23:BB:512:G:H1'	1.62	0.64
48:B1:34:GLU:OE1	48:B1:36:LYS:HE2	1.97	0.64
23:BB:2880:C:H1'	35:BN:92:GLY:O	1.98	0.64
25:DC:29:PHE:CD1	25:DC:29:PHE:O	2.50	0.64
28:BF:12:VAL:HG13	28:BF:27:VAL:HG21	1.79	0.64
23:DB:1935:G:H1'	23:DB:1964:G:N2	2.12	0.64
23:DB:1690:A:H2'	23:DB:1691:C:O4'	1.98	0.64
7:AH:36:ALA:HA	7:AH:39:LEU:HD12	1.79	0.64
1:CA:83:C:H4'	1:CA:83:C:OP1	1.98	0.64
1:AA:518:C:H2'	1:AA:530:G:C8	2.31	0.64
44:DX:42:LEU:C	44:DX:43:LEU:HD22	2.17	0.64
11:CL:43:LYS:CB	11:CL:44:PRO:HD2	2.17	0.64
23:DB:2365:G:H4'	43:DW:65:LYS:HD2	1.80	0.64
25:BC:171:VAL:HB	25:BC:182:LYS:HB3	1.80	0.64
23:BB:923:G:H1'	43:BW:23:LYS:CD	2.23	0.64
38:DQ:47:ARG:HH12	38:DQ:50:ARG:HG3	1.62	0.64
18:AS:50:VAL:O	18:AS:56:HIS:HA	1.97	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:109:LYS:HA	33:BL:126:ARG:CA	2.27	0.64
23:BB:1225:G:H5''	39:BR:78:ARG:HH22	1.61	0.64
23:DB:64:A:H2'	23:DB:65:U:C6	2.32	0.64
39:BR:90:ARG:HH11	39:BR:91:GLN:H	1.46	0.64
8:AI:49:GLN:NE2	8:AI:79:ARG:HD2	2.13	0.64
12:AM:13:HIS:HB2	12:AM:16:ILE:HG22	1.79	0.64
47:B0:28:SER:HB2	47:B0:34:GLY:N	2.12	0.64
41:BT:3:ARG:HH22	44:BX:19:LEU:HD22	1.61	0.64
4:CE:137:ARG:HH11	4:CE:137:ARG:HG2	1.63	0.64
15:CP:28:ARG:CD	15:CP:29:ASN:H	2.09	0.64
33:DL:39:LYS:NZ	33:DL:39:LYS:HA	2.13	0.64
12:AM:68:LEU:O	12:AM:72:ILE:HD13	1.97	0.64
30:BH:83:LYS:HB3	30:BH:91:PHE:CD1	2.31	0.64
27:BE:58:LYS:O	27:BE:58:LYS:HD3	1.97	0.64
23:DB:321:U:OP2	27:DE:130:LYS:HG3	1.98	0.64
23:DB:2196:C:O2'	23:DB:2197:U:H5'	1.97	0.64
23:BB:13:A:H61	23:BB:525:U:H2'	1.63	0.64
23:DB:2238:G:N3	23:DB:2238:G:H2'	2.13	0.64
28:BF:75:GLY:O	28:BF:76:PHE:HB2	1.97	0.64
23:BB:196:A:H2'	23:BB:196:A:N3	2.12	0.64
12:CM:14:ALA:HB3	12:CM:40:GLU:HA	1.78	0.64
43:DW:13:ARG:NE	43:DW:13:ARG:H	1.90	0.64
23:BB:1813:G:N2	25:BC:51:ARG:HG2	2.12	0.64
31:DJ:98:GLU:O	31:DJ:102:GLU:HG2	1.98	0.64
23:DB:813:U:H2'	23:DB:814:C:H6	1.63	0.64
39:DR:80:ARG:O	39:DR:80:ARG:HG3	1.97	0.64
16:AQ:10:ARG:HA	16:AQ:10:ARG:HE	1.63	0.64
46:BZ:36:VAL:HG22	46:BZ:42:PRO:HG3	1.78	0.64
23:DB:639:U:H2'	23:DB:640:C:C6	2.33	0.64
26:DD:128:ARG:HD3	26:DD:128:ARG:N	2.13	0.64
26:BD:2:ILE:HG13	26:BD:3:GLY:H	1.62	0.64
37:DP:59:THR:HG23	37:DP:76:HIS:CD2	2.31	0.64
31:DJ:64:VAL:HG12	31:DJ:65:THR:N	2.11	0.64
3:CD:28:ASP:CB	3:CD:33:ILE:HD12	2.28	0.64
6:AG:3:ARG:HH11	6:AG:3:ARG:HB3	1.63	0.64
23:BB:796:C:H2'	23:BB:797:G:H8	1.62	0.64
23:DB:796:C:H2'	23:DB:797:G:H8	1.62	0.64
22:DA:51:G:H2'	22:DA:52:A:H5''	1.78	0.64
2:AC:39:ARG:HG3	2:AC:54:ILE:HG21	1.79	0.64
49:D2:34:ARG:HD2	49:D2:43:THR:OG1	1.97	0.64
23:BB:1198:U:H2'	23:BB:1199:U:C6	2.32	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:4:ARG:HE	6:AG:5:VAL:N	1.94	0.64
26:BD:62:LYS:H	26:BD:62:LYS:HD3	1.62	0.64
23:BB:2443:C:H2'	23:BB:2444:G:C8	2.31	0.64
25:BC:250:GLN:HB3	25:BC:252:LYS:HE2	1.78	0.64
29:BG:116:LEU:HD21	29:BG:120:ILE:HB	1.79	0.64
10:AK:52:ARG:HD2	10:AK:53:GLY:N	2.13	0.64
2:CC:149:LYS:HB2	2:CC:168:ARG:HG3	1.80	0.64
12:CM:47:LEU:H	12:CM:47:LEU:HD23	1.63	0.64
23:BB:2104:C:H2'	23:BB:2105:U:C5	2.32	0.64
23:BB:1459:G:O2'	23:BB:1460:U:H5'	1.98	0.64
10:CK:61:ALA:O	10:CK:64:VAL:HG22	1.97	0.64
52:BI:85:ILE:HD13	52:BI:137:LEU:HD21	1.78	0.64
1:CA:1402:C:H2'	1:CA:1403:C:O4'	1.98	0.64
10:AK:19:VAL:HG12	10:AK:82:GLU:HB2	1.80	0.64
23:DB:2334:U:N3	43:DW:74:LYS:HE2	2.10	0.64
31:BJ:24:THR:C	31:BJ:25:LEU:HD22	2.17	0.64
27:DE:108:ILE:HG22	27:DE:180:LEU:HD13	1.79	0.64
46:BZ:5:ILE:HB	46:BZ:51:VAL:HG13	1.79	0.64
46:DZ:48:GLN:HB3	46:DZ:51:VAL:CG2	2.28	0.64
26:DD:197:THR:HG23	26:DD:198:GLY:N	2.07	0.64
23:DB:1007:C:H5''	31:DJ:37:ARG:NH1	2.13	0.64
28:BF:151:LEU:HD23	28:BF:153:ILE:HD11	1.80	0.64
31:BJ:35:ARG:HA	31:BJ:35:ARG:NE	2.13	0.64
41:BT:88:LYS:CG	41:BT:89:GLU:H	2.06	0.64
23:BB:2743:U:H3'	23:BB:2744:G:H5''	1.80	0.64
23:DB:1814:G:C4'	25:DC:51:ARG:HG2	2.28	0.64
1:CA:376:G:H5''	15:CP:5:ARG:HD3	1.79	0.64
42:BU:3:LYS:HZ2	42:BU:3:LYS:HB2	1.62	0.64
23:BB:1181:U:H2'	23:BB:1182:G:C8	2.32	0.64
25:DC:20:ASN:HB2	25:DC:202:ARG:HH11	1.63	0.64
12:CM:89:ARG:NH1	12:CM:101:THR:HG21	2.12	0.64
8:AI:20:ILE:HG23	8:AI:60:LEU:HD13	1.79	0.64
1:AA:411:A:O2'	1:AA:412:A:H4'	1.98	0.64
29:DG:148:ARG:HA	29:DG:161:VAL:CG1	2.28	0.64
22:DA:7:G:H5''	36:DO:29:HIS:NE2	2.13	0.64
23:BB:1354:A:H2'	23:BB:1355:G:O4'	1.97	0.64
25:BC:16:VAL:HA	25:BC:17:LYS:HZ3	1.61	0.64
23:BB:1360:G:H2'	23:BB:1361:G:H5'	1.79	0.64
23:BB:674:G:H5''	27:BE:71:GLY:N	2.13	0.64
23:DB:828:U:H4'	23:DB:831:G:N1	2.13	0.64
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.13	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:35:VAL:HA	32:DK:62:VAL:O	1.98	0.64
20:AB:198:VAL:HG22	20:AB:200:PRO:HD3	1.79	0.64
5:CF:43:GLY:HA2	5:CF:58:HIS:CD2	2.33	0.64
42:BU:11:ILE:HB	42:BU:69:VAL:HB	1.78	0.64
30:BH:89:LYS:NZ	30:BH:123:ARG:HB3	2.13	0.64
23:BB:1812:U:H1'	25:BC:45:ASN:OD1	1.98	0.64
23:DB:2811:G:H5'	26:DD:62:LYS:NZ	2.13	0.64
16:AQ:59:GLU:H	16:AQ:74:LEU:CD2	2.11	0.64
23:DB:2820:A:C4'	35:DN:4:ARG:HG3	2.27	0.64
42:BU:43:LYS:HD2	42:BU:44:HIS:N	2.13	0.64
35:BN:113:ILE:O	35:BN:114:GLU:HB2	1.96	0.64
33:DL:59:ARG:HA	50:D3:11:LYS:HZ1	1.62	0.64
26:DD:140:HIS:O	26:DD:141:ARG:HG2	1.97	0.64
24:DV:9:ARG:HH22	24:DV:16:ALA:HB1	1.61	0.64
1:AA:1111:A:O2'	1:AA:1112:C:H6	1.81	0.64
1:CA:1306:A:O2'	12:CM:107:THR:HG21	1.98	0.64
6:AG:23:ALA:O	6:AG:26:VAL:HG22	1.98	0.64
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.61	0.64
9:AJ:7:ARG:HA	9:AJ:75:ASP:HB2	1.78	0.64
35:DN:8:ARG:NH1	35:DN:46:ARG:HG3	2.13	0.64
34:BM:109:PRO:HA	34:BM:112:LEU:HD22	1.80	0.64
7:CH:102:VAL:HG23	7:CH:125:ILE:HB	1.80	0.64
9:AJ:65:TYR:HB3	13:AN:95:LEU:HD11	1.80	0.64
23:DB:1387:A:H2'	23:DB:1388:G:H8	1.63	0.64
1:AA:190:A:H8	1:AA:190:A:O5'	1.80	0.64
1:AA:674:G:H2'	1:AA:675:A:H8	1.63	0.64
12:CM:78:ARG:HG3	28:DF:111:ARG:HH11	1.62	0.64
45:BY:4:ILE:HG12	45:BY:5:LYS:HG3	1.80	0.64
36:BO:109:ALA:HA	36:BO:112:GLU:OE1	1.98	0.64
15:CP:40:ASN:HD21	15:CP:42:ILE:HG12	1.63	0.64
23:DB:1319:C:O2'	23:DB:1320:C:H5'	1.98	0.64
30:BH:112:LYS:O	30:BH:112:LYS:HD2	1.98	0.64
23:BB:1117:C:H2'	23:BB:1118:C:C6	2.32	0.64
19:CT:52:GLU:O	19:CT:56:ILE:HD13	1.98	0.64
1:AA:1278:G:H4'	1:AA:1279:G:O5'	1.98	0.64
23:BB:1690:A:H2'	23:BB:1691:C:O4'	1.98	0.64
27:DE:31:VAL:HG21	27:DE:104:ALA:HB2	1.79	0.64
43:DW:67:LYS:HD3	43:DW:68:PHE:H	1.62	0.64
23:DB:7:G:H2'	23:DB:8:C:C6	2.33	0.64
25:DC:179:GLU:HG3	25:DC:266:ILE:HG22	1.80	0.64
23:BB:1188:U:H4'	39:BR:83:TYR:CB	2.27	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:14:CYS:SG	51:B4:25:VAL:HG12	2.38	0.64
26:DD:34:VAL:H	26:DD:90:PHE:C	2.01	0.64
30:DH:108:VAL:HG12	30:DH:110:VAL:HB	1.80	0.64
33:DL:78:ARG:NH1	33:DL:78:ARG:HB3	2.13	0.64
50:D3:54:LEU:HA	50:D3:57:VAL:HG12	1.80	0.64
23:DB:784:G:H5'	25:DC:225:ASN:HD21	1.63	0.64
1:CA:451:A:H5'	15:CP:70:ARG:NH2	2.12	0.64
26:DD:25:THR:HA	26:DD:188:LEU:HD12	1.79	0.64
1:AA:1488:G:O2'	1:AA:1489:G:H5'	1.98	0.64
3:AD:88:ASN:O	3:AD:92:LEU:HD23	1.97	0.64
20:AB:37:VAL:HG22	20:AB:38:HIS:N	2.13	0.64
38:DQ:91:ARG:HA	38:DQ:94:LEU:HD21	1.79	0.64
1:CA:1237:C:H3'	1:CA:1238:A:H5'	1.78	0.64
48:B1:13:SER:H	48:B1:50:GLU:HA	1.62	0.64
23:DB:118:A:OP2	23:DB:119:A:H2'	1.98	0.64
23:DB:2249:U:H4'	23:DB:2275:C:C5	2.33	0.64
20:AB:148:GLY:O	20:AB:151:LYS:HE2	1.98	0.64
1:CA:677:U:H3	1:CA:713:G:H22	1.47	0.64
1:CA:1526:G:P	21:CU:38:GLU:HB2	2.38	0.64
1:CA:89:U:H2'	1:CA:90:C:H6	1.62	0.64
23:DB:1447:C:H2'	23:DB:1448:G:H8	1.61	0.64
23:DB:37:C:O2'	23:DB:38:A:H5'	1.98	0.64
27:BE:1:MET:O	27:BE:14:VAL:HG22	1.98	0.64
23:BB:1973:G:H2'	23:BB:1974:C:C6	2.33	0.64
33:BL:132:ARG:O	33:BL:136:GLU:HB3	1.98	0.64
9:AJ:25:ILE:HG23	9:AJ:29:ALA:HB3	1.79	0.64
7:AH:8:ASP:O	7:AH:12:ARG:HG3	1.98	0.64
32:BK:108:ARG:HA	32:BK:116:ILE:HG21	1.80	0.63
34:DM:57:VAL:HG12	34:DM:58:LYS:N	2.09	0.63
51:D4:10:LEU:HB2	51:D4:25:VAL:HG23	1.80	0.63
37:BP:47:ILE:HA	37:BP:63:ILE:HG23	1.79	0.63
43:DW:43:LYS:HD2	43:DW:76:ARG:HA	1.79	0.63
23:BB:1821:A:H5'	25:BC:155:ARG:HH21	1.62	0.63
30:DH:1:MET:C	30:DH:21:VAL:HG22	2.19	0.63
23:DB:2784:U:H2'	23:DB:2785:C:C6	2.33	0.63
31:BJ:73:VAL:HG23	31:BJ:74:TYR:H	1.63	0.63
27:BE:132:LYS:NZ	27:BE:132:LYS:HB2	2.13	0.63
13:AN:15:LEU:HD12	13:AN:16:ALA:N	2.13	0.63
8:AI:30:ASN:ND2	8:AI:65:THR:HA	2.13	0.63
35:BN:28:LEU:HD22	35:BN:48:VAL:HG21	1.80	0.63
26:DD:146:ILE:H	26:DD:146:ILE:HD12	1.64	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:27:LYS:N	40:BS:27:LYS:HD2	2.09	0.63
10:CK:121:ARG:HE	21:CU:34:ARG:HG2	1.62	0.63
23:BB:704:G:H1'	23:BB:727:A:N6	2.12	0.63
29:BG:23:ILE:O	29:BG:33:THR:HA	1.97	0.63
23:DB:878:A:N3	23:DB:878:A:H2'	2.12	0.63
1:CA:674:G:H2'	1:CA:675:A:H8	1.63	0.63
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.61	0.63
25:BC:72:GLY:C	25:BC:73:ILE:HD12	2.18	0.63
1:CA:203:G:H1'	1:CA:465:A:N6	2.13	0.63
23:DB:2080:A:H2'	23:DB:2081:U:C6	2.33	0.63
1:AA:203:G:H1'	1:AA:465:A:N6	2.13	0.63
3:AD:186:GLU:O	3:AD:190:LEU:HD13	1.98	0.63
23:BB:1219:U:H2'	23:BB:1220:G:H8	1.63	0.63
34:BM:86:LYS:HD2	34:BM:86:LYS:N	2.13	0.63
26:BD:23:PRO:HB3	26:BD:189:VAL:H	1.63	0.63
25:BC:141:HIS:CB	25:BC:190:THR:HB	2.29	0.63
43:BW:76:ARG:HG2	43:BW:77:LYS:N	2.13	0.63
23:BB:298:G:H2'	23:BB:339:U:O4	1.98	0.63
36:DO:17:LYS:HD2	36:DO:92:PHE:CD2	2.33	0.63
1:CA:1084:G:H5'	1:CA:1102:A:OP2	1.98	0.63
23:BB:1205:A:H4'	23:BB:1206:G:OP2	1.96	0.63
23:BB:125:A:H3'	23:BB:126:A:H5'	1.79	0.63
40:DS:29:VAL:O	40:DS:33:LEU:HD23	1.98	0.63
32:DK:107:LEU:HD21	32:DK:115:ILE:HD13	1.79	0.63
35:DN:30:ARG:NH1	35:DN:74:GLU:HG2	2.14	0.63
48:B1:9:LYS:HD2	48:B1:9:LYS:N	2.14	0.63
8:AI:122:ARG:HH11	8:AI:122:ARG:HG3	1.64	0.63
50:B3:41:ARG:HD3	50:B3:43:LEU:H	1.63	0.63
23:DB:418:C:H2'	23:DB:419:U:H6	1.63	0.63
23:BB:1192:G:O2'	23:BB:1193:G:H5'	1.98	0.63
23:DB:651:G:OP1	50:D3:18:LYS:HG2	1.97	0.63
23:DB:2108:A:N3	23:DB:2108:A:H2'	2.13	0.63
22:BA:76:G:H2'	22:BA:77:U:H6	1.63	0.63
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.33	0.63
1:CA:93:U:H2'	1:CA:94:G:H5'	1.79	0.63
37:DP:26:GLU:HA	37:DP:47:ILE:N	2.11	0.63
37:DP:27:VAL:HG13	37:DP:47:ILE:CD1	2.26	0.63
37:DP:27:VAL:CG1	37:DP:47:ILE:HD12	2.26	0.63
42:BU:35:VAL:HG12	42:BU:36:GLU:N	2.12	0.63
25:BC:140:VAL:HG23	25:BC:141:HIS:H	1.64	0.63
25:DC:75:ALA:HB2	25:DC:95:TYR:CD1	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DU:28:LEU:HD11	42:DU:31:GLY:C	2.19	0.63
30:BH:11:ASN:HD22	30:BH:12:LEU:H	1.46	0.63
31:DJ:41:LYS:HG2	38:DQ:63:ARG:NH1	2.12	0.63
35:BN:70:THR:HG21	35:BN:75:ILE:HG22	1.80	0.63
35:BN:75:ILE:HD13	35:BN:75:ILE:O	1.99	0.63
23:BB:2025:C:H2'	23:BB:2026:U:C6	2.33	0.63
21:AU:7:GLU:OE2	21:AU:15:LEU:HD22	1.98	0.63
23:BB:1060:U:H5	52:BI:131:THR:HG22	1.63	0.63
8:CI:86:LEU:HB3	8:CI:93:LEU:HD13	1.80	0.63
38:DQ:57:ARG:HH21	38:DQ:92:LYS:HZ3	1.46	0.63
28:DF:56:LEU:O	28:DF:59:ILE:HG22	1.97	0.63
42:DU:13:LEU:HD21	42:DU:69:VAL:HG13	1.79	0.63
30:BH:83:LYS:HB2	30:BH:92:GLY:H	1.63	0.63
23:DB:1485:U:H2'	23:DB:1486:U:H6	1.63	0.63
23:DB:1442:U:H2'	23:DB:1443:U:C6	2.33	0.63
1:CA:441:A:H61	1:CA:493:A:H62	1.45	0.63
50:D3:4:LYS:HE3	50:D3:61:LEU:H	1.63	0.63
46:BZ:70:LYS:N	46:BZ:70:LYS:HE2	2.12	0.63
1:CA:411:A:O2'	1:CA:412:A:H4'	1.98	0.63
23:BB:2070:A:H2'	23:BB:2071:A:C8	2.33	0.63
11:CL:85:ARG:NH1	11:CL:93:ARG:HB3	2.13	0.63
1:AA:677:U:H3	1:AA:713:G:H22	1.46	0.63
8:CI:113:LYS:HA	8:CI:120:ALA:HB2	1.79	0.63
27:DE:42:GLY:O	27:DE:43:THR:HG23	1.97	0.63
23:DB:2361:G:H5''	50:D3:27:ASN:HB2	1.79	0.63
1:CA:985:C:H2'	1:CA:986:U:C6	2.33	0.63
46:BZ:59:ARG:HE	46:BZ:62:LYS:HD2	1.63	0.63
23:DB:907:G:H5'	34:DM:24:THR:HG21	1.80	0.63
7:AH:11:THR:HA	7:AH:14:ARG:NH1	2.12	0.63
1:AA:524:G:H2'	1:AA:525:C:C6	2.34	0.63
26:BD:8:LYS:HB3	37:BP:5:LYS:HZ1	1.61	0.63
26:DD:61:THR:HG23	26:DD:62:LYS:N	2.14	0.63
23:DB:1278:C:OP1	35:DN:36:THR:HG23	1.98	0.63
27:BE:132:LYS:HZ2	27:BE:132:LYS:HB2	1.64	0.63
34:BM:67:VAL:HB	34:BM:100:LYS:HD3	1.79	0.63
41:DT:21:SER:HA	41:DT:24:MET:SD	2.38	0.63
27:BE:113:VAL:HG13	27:BE:114:ARG:H	1.63	0.63
37:DP:5:LYS:HA	37:DP:5:LYS:HZ3	1.63	0.63
33:DL:78:ARG:HH12	33:DL:80:SER:HB3	1.63	0.63
33:BL:90:VAL:CG1	33:BL:121:THR:H	2.10	0.63
32:DK:107:LEU:HD21	32:DK:115:ILE:CD1	2.28	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:34:ARG:HG2	21:CU:35:GLU:N	2.10	0.63
8:CI:48:ARG:HA	8:CI:51:LEU:HD12	1.81	0.63
23:DB:1151:A:H2'	23:DB:1152:C:C6	2.33	0.63
20:CB:163:ILE:HG23	20:CB:164:ASP:N	2.13	0.63
1:CA:947:G:H2'	1:CA:948:C:H6	1.63	0.63
23:DB:598:U:H2'	23:DB:599:A:C8	2.34	0.63
11:AL:20:VAL:O	11:AL:23:LEU:HG	1.97	0.63
42:DU:41:VAL:HA	42:DU:57:ILE:HD12	1.80	0.63
1:CA:390:U:H2'	1:CA:391:G:H8	1.62	0.63
6:AG:74:VAL:HG12	6:AG:75:LYS:H	1.62	0.63
23:BB:364:C:H2'	23:BB:365:U:C6	2.33	0.63
23:DB:608:A:H2'	23:DB:609:A:C8	2.34	0.63
23:BB:1641:A:H2'	23:BB:1642:G:O4'	1.99	0.63
23:BB:41:C:H2'	23:BB:42:A:C8	2.33	0.63
23:BB:828:U:H4'	23:BB:831:G:N1	2.13	0.63
23:BB:1570:A:H2'	23:BB:1571:A:C8	2.34	0.63
21:AU:44:ARG:HG3	21:AU:44:ARG:HH11	1.64	0.63
12:AM:88:LEU:O	12:AM:92:ARG:HG3	1.97	0.63
2:CC:53:ARG:HG3	2:CC:113:LYS:HD3	1.80	0.63
37:DP:23:ASP:O	37:DP:25:VAL:N	2.32	0.63
26:DD:42:ASN:O	26:DD:43:ASP:HB2	1.97	0.63
31:BJ:64:VAL:HG12	31:BJ:65:THR:H	1.64	0.63
23:DB:85:G:OP1	42:DU:4:ILE:HG23	1.98	0.63
23:DB:1205:A:H62	27:DE:164:LEU:HD11	1.63	0.63
32:BK:11:ALA:HB3	32:BK:85:VAL:HG22	1.81	0.63
23:DB:143:C:N3	41:DT:3:ARG:NH1	2.46	0.63
27:BE:3:LEU:O	27:BE:4:VAL:HG12	1.98	0.63
20:AB:71:THR:HG22	20:AB:94:ARG:HH21	1.63	0.63
27:DE:2:GLU:HA	27:DE:16:GLU:HB3	1.81	0.63
23:BB:2784:U:H2'	23:BB:2785:C:C6	2.33	0.63
5:AF:40:GLU:HG3	5:AF:42:TRP:HE1	1.64	0.63
8:CI:54:VAL:HG12	8:CI:93:LEU:HD22	1.80	0.63
7:CH:78:SER:HB2	7:CH:124:ILE:O	1.97	0.63
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.34	0.63
6:AG:65:LEU:O	6:AG:69:ARG:HG3	1.99	0.63
2:CC:149:LYS:HG3	2:CC:166:TRP:HE1	1.63	0.63
23:BB:1351:C:H4'	23:BB:1572:A:O4'	1.99	0.63
7:CH:86:LYS:HD2	7:CH:90:GLU:HG2	1.81	0.63
22:BA:28:C:H5'	22:BA:29:A:OP2	1.98	0.63
35:DN:79:LEU:HD22	35:DN:83:LEU:HD23	1.78	0.63
23:DB:1854:A:H62	23:DB:1888:G:H8	1.46	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:720:C:H4'	17:CR:38:ILE:HD11	1.81	0.63
34:DM:97:GLN:N	34:DM:98:PRO:CD	2.61	0.63
1:CA:1143:G:H2'	1:CA:1144:G:C8	2.34	0.63
1:AA:975:A:H5''	1:AA:976:G:O5'	1.99	0.63
1:CA:1409:C:H2'	1:CA:1410:A:C8	2.33	0.63
36:BO:57:ALA:CB	36:BO:62:LEU:HD22	2.18	0.63
37:BP:97:TYR:O	37:BP:98:TYR:HB2	1.97	0.63
43:DW:67:LYS:HG2	43:DW:71:LYS:CB	2.29	0.63
23:DB:532:A:N3	23:DB:532:A:H2'	2.13	0.63
23:BB:650:C:H5''	50:B3:22:LYS:NZ	2.13	0.63
23:BB:967:U:H2'	23:BB:968:C:C6	2.33	0.63
24:BV:46:LYS:O	24:BV:50:MET:HG3	1.99	0.63
16:AQ:10:ARG:NH2	16:AQ:11:VAL:HG23	2.14	0.63
23:DB:64:A:H2'	23:DB:65:U:H6	1.64	0.63
33:BL:38:GLN:O	33:BL:41:ARG:HD3	1.98	0.63
35:BN:113:ILE:HG22	35:BN:114:GLU:N	2.10	0.63
23:BB:1132:U:C5'	31:BJ:85:LYS:HZ3	2.11	0.63
23:BB:1567:G:H5''	25:BC:84:PRO:HG3	1.81	0.63
31:DJ:77:HIS:HB2	31:DJ:85:LYS:HE2	1.81	0.63
24:BV:69:GLU:HG2	24:BV:70:ILE:N	2.14	0.63
38:DQ:3:VAL:C	38:DQ:4:LYS:HD3	2.19	0.63
33:DL:126:ARG:HH12	33:DL:128:THR:HG22	1.64	0.63
13:CN:13:VAL:HG22	13:CN:59:GLN:NE2	2.14	0.63
50:D3:24:LYS:NZ	50:D3:24:LYS:HB3	2.13	0.63
50:D3:33:THR:C	50:D3:34:LYS:HD2	2.19	0.63
23:BB:1060:U:O4	23:BB:1088:A:N6	2.32	0.63
1:AA:74:A:H2'	1:AA:75:G:C5'	2.27	0.63
26:DD:9:VAL:HG12	26:DD:10:GLY:H	1.62	0.63
35:BN:37:THR:HA	35:BN:109:PRO:O	1.98	0.63
3:AD:59:LYS:O	3:AD:63:ILE:HG13	1.98	0.63
5:CF:86:ARG:NH1	17:CR:63:TYR:HB3	2.13	0.63
23:DB:365:U:H2'	23:DB:366:C:H6	1.61	0.63
1:AA:1446:A:C2'	1:AA:1447:A:H5''	2.29	0.63
23:DB:1439:A:C6	23:DB:1552:A:N7	2.67	0.63
5:CF:79:ARG:NH2	5:CF:87:SER:HB3	2.14	0.63
24:BV:89:ILE:HD12	24:BV:89:ILE:O	1.99	0.63
29:BG:86:LEU:HD13	29:BG:163:TYR:HA	1.79	0.63
23:BB:598:U:H2'	23:BB:599:A:C8	2.34	0.63
1:AA:105:G:H2'	1:AA:106:C:H6	1.64	0.63
23:BB:813:U:H2'	23:BB:814:C:H6	1.62	0.63
1:CA:1191:A:OP1	2:CC:2:GLN:HB2	1.98	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:875:U:O2'	7:AH:14:ARG:HD2	1.97	0.63
7:AH:11:THR:HG22	7:AH:15:ASN:ND2	2.13	0.63
2:CC:52:SER:O	2:CC:53:ARG:HG3	1.98	0.63
32:DK:93:GLN:HG2	32:DK:94:PRO:HD2	1.79	0.63
25:BC:12:ARG:NE	25:BC:18:VAL:HG11	2.14	0.63
23:BB:2852:G:H2'	23:BB:2853:C:C6	2.33	0.63
23:BB:2498:C:O2'	23:BB:2499:C:H5'	1.98	0.63
23:DB:2498:C:O2'	23:DB:2499:C:H5'	1.99	0.63
1:CA:1041:G:H2'	1:CA:1042:A:H8	1.64	0.63
23:BB:1509:A:H5'	23:BB:1510:G:H5'	1.80	0.63
31:DJ:105:VAL:HG11	31:DJ:122:LEU:CD1	2.28	0.63
52:DI:5:GLN:HB2	52:DI:30:GLN:OE1	1.99	0.63
25:DC:137:GLY:C	25:DC:139:THR:H	2.02	0.63
43:BW:43:LYS:CG	43:BW:76:ARG:HE	2.12	0.63
18:AS:28:LYS:HD3	18:AS:28:LYS:H	1.63	0.63
5:CF:3:HIS:CA	5:CF:65:GLU:HG3	2.28	0.63
40:BS:47:VAL:HG12	40:BS:103:ILE:HD13	1.80	0.63
5:AF:53:LYS:CD	5:AF:54:LEU:H	2.10	0.63
27:BE:152:GLU:HG2	27:BE:171:ASP:HB3	1.80	0.63
33:DL:4:ASN:O	33:DL:5:THR:HG22	1.98	0.63
1:CA:32:A:H2'	1:CA:33:A:C8	2.34	0.63
23:BB:934:U:H2'	23:BB:935:C:H6	1.61	0.63
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.33	0.63
23:DB:863:A:H2'	23:DB:864:G:C8	2.34	0.63
10:AK:58:THR:HG23	10:AK:61:ALA:HB2	1.80	0.63
20:CB:70:GLY:O	20:CB:92:ASN:HA	1.97	0.63
35:DN:108:ALA:HB1	35:DN:109:PRO:HD2	1.81	0.63
31:DJ:112:GLY:O	31:DJ:116:ARG:HB2	1.99	0.63
23:DB:1351:C:H4'	23:DB:1572:A:O4'	1.99	0.63
28:DF:177:ARG:HE	28:DF:177:ARG:C	2.01	0.63
1:AA:10:A:OP2	4:AE:130:THR:HB	1.98	0.63
42:BU:7:ASP:HA	42:BU:24:VAL:HA	1.81	0.63
23:BB:38:A:O4'	27:BE:46:GLN:CG	2.40	0.63
27:BE:48:THR:HA	27:BE:86:ALA:HB1	1.81	0.63
1:CA:976:G:OP1	13:CN:70:HIS:HA	1.98	0.63
26:BD:25:THR:HB	37:BP:5:LYS:NZ	2.13	0.63
23:DB:2813:A:H2'	23:DB:2814:A:C8	2.34	0.63
27:DE:169:VAL:HG13	27:DE:170:ARG:N	2.08	0.63
46:BZ:64:PHE:HA	46:BZ:67:PRO:HD2	1.81	0.63
38:BQ:57:ARG:HA	38:BQ:60:TRP:HE3	1.63	0.63
13:AN:81:ILE:HD12	13:AN:82:LYS:H	1.64	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:6:ARG:HG3	41:BT:6:ARG:O	1.97	0.63
23:BB:1453:A:H61	35:BN:74:GLU:HG2	1.61	0.63
10:CK:124:LYS:CD	21:CU:34:ARG:HD3	2.28	0.63
14:AO:60:SER:HA	14:AO:63:ARG:HH12	1.64	0.63
23:BB:263:G:H2'	23:BB:264:C:O4'	1.98	0.63
25:DC:19:VAL:HG12	25:DC:20:ASN:N	2.13	0.63
47:B0:6:LYS:HA	47:B0:6:LYS:HZ3	1.63	0.63
23:BB:1439:A:C6	23:BB:1552:A:N7	2.67	0.63
6:AG:87:PRO:HG2	6:AG:151:ALA:HB2	1.81	0.63
1:AA:1524:C:H2'	1:AA:1525:G:H8	1.63	0.63
1:AA:57:G:H2'	1:AA:58:C:H6	1.63	0.63
23:DB:181:A:H2'	23:DB:182:A:C8	2.33	0.63
2:CC:52:SER:O	2:CC:113:LYS:HD3	1.99	0.63
23:DB:1570:A:H2'	23:DB:1571:A:C8	2.34	0.63
1:AA:982:U:H3'	13:AN:5:MET:HE1	1.81	0.63
1:CA:1520:C:H2'	1:CA:1521:C:C6	2.34	0.63
1:AA:1254:A:OP1	9:AJ:47:GLU:HG3	1.99	0.63
23:DB:1973:G:H2'	23:DB:1974:C:C6	2.33	0.63
23:BB:903:C:H2'	23:BB:904:G:H8	1.63	0.63
23:DB:283:G:H2'	23:DB:284:U:C6	2.34	0.63
49:D2:33:ARG:NE	49:D2:33:ARG:HA	2.13	0.63
34:BM:3:GLN:O	34:BM:6:ARG:N	2.32	0.63
25:BC:131:MET:HE1	25:BC:143:VAL:HG11	1.79	0.63
35:DN:45:ARG:NH2	35:DN:113:ILE:HD12	2.12	0.63
31:DJ:131:ASN:C	31:DJ:133:ALA:H	2.01	0.63
32:BK:98:ARG:C	32:BK:99:ILE:HD12	2.20	0.63
34:BM:96:ILE:HD13	34:BM:97:GLN:HG3	1.80	0.63
23:BB:588:U:OP1	33:BL:28:GLY:N	2.31	0.63
1:CA:1342:C:H2'	1:CA:1343:G:H8	1.64	0.63
27:BE:3:LEU:HB2	27:BE:12:LEU:HD22	1.80	0.63
13:CN:19:TYR:HE2	13:CN:50:LEU:HD13	1.64	0.63
1:CA:763:G:H2'	1:CA:764:C:C6	2.34	0.63
23:DB:1022:G:C8	31:DJ:68:LYS:HE3	2.34	0.63
31:DJ:69:ARG:HH11	31:DJ:69:ARG:HG3	1.62	0.63
29:BG:17:LYS:HE3	29:BG:24:THR:HG21	1.80	0.63
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.34	0.63
49:B2:33:ARG:O	49:B2:37:LYS:HB2	1.98	0.63
37:BP:91:VAL:HB	37:BP:113:LEU:HG	1.80	0.63
23:DB:1174:U:H1'	23:DB:1176:U:C4	2.34	0.63
23:DB:782:A:O2'	25:DC:223:ALA:HB1	1.98	0.63
25:DC:19:VAL:HB	25:DC:205:GLY:HA2	1.80	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:B1:51:ALA:C	48:B1:52:LYS:HD2	2.18	0.63
25:DC:16:VAL:HG12	25:DC:16:VAL:O	1.97	0.63
23:DB:1548:A:H2'	23:DB:1549:A:H8	1.63	0.63
23:DB:631:A:O2'	33:DL:66:PHE:HB3	1.98	0.63
50:D3:4:LYS:HG3	50:D3:61:LEU:HB2	1.81	0.63
23:BB:2228:G:H2'	23:BB:2229:U:H6	1.63	0.63
23:BB:2212:A:N7	23:BB:2214:C:N4	2.46	0.63
1:AA:1163:A:H2'	1:AA:1164:G:C8	2.34	0.63
1:CA:57:G:H2'	1:CA:58:C:H6	1.63	0.63
1:AA:1513:A:H2'	1:AA:1514:G:H8	1.63	0.63
23:BB:41:C:H2'	23:BB:42:A:H8	1.63	0.63
22:DA:43:C:H4'	28:DF:62:GLN:HE21	1.64	0.63
40:BS:66:ILE:HD12	40:BS:66:ILE:H	1.64	0.63
1:AA:168:G:O2'	1:AA:169:C:H5'	1.99	0.63
23:BB:1309:G:H4'	49:B2:7:PRO:HG2	1.80	0.63
1:CA:1234:C:H2'	1:CA:1235:U:C6	2.34	0.63
1:AA:810:C:O2'	1:AA:811:C:H5'	1.99	0.63
23:BB:2563:U:H5''	32:BK:27:GLY:HA2	1.79	0.63
37:DP:89:GLY:HA2	37:DP:112:ARG:HH22	1.64	0.62
37:BP:63:ILE:H	37:BP:63:ILE:HD12	1.64	0.62
25:BC:117:SER:HB3	25:BC:127:ASN:CG	2.19	0.62
25:DC:131:MET:HG3	25:DC:187:CYS:SG	2.39	0.62
23:DB:6:A:H2'	23:DB:7:G:C8	2.34	0.62
23:BB:856:G:H2'	23:BB:857:G:C8	2.34	0.62
32:BK:99:ILE:HD13	32:BK:118:LEU:HD13	1.80	0.62
34:BM:34:LYS:O	34:BM:124:LEU:HB2	1.99	0.62
23:BB:1158:C:H5''	45:BY:30:ARG:HD3	1.81	0.62
42:DU:66:VAL:HG22	42:DU:67:SER:N	2.08	0.62
34:DM:18:ARG:CD	34:DM:18:ARG:H	2.09	0.62
26:BD:115:GLY:HA3	26:BD:166:GLY:HA2	1.80	0.62
5:CF:38:ARG:HH21	5:CF:63:ASN:HD21	1.46	0.62
42:BU:27:VAL:HA	42:BU:32:LYS:O	1.99	0.62
52:DI:20:SER:O	52:DI:25:PRO:HD2	1.99	0.62
52:DI:45:THR:CA	52:DI:48:ILE:HG22	2.29	0.62
16:CQ:11:VAL:HG22	16:CQ:22:VAL:HG22	1.81	0.62
23:BB:1442:U:H2'	23:BB:1443:U:C6	2.33	0.62
23:BB:65:U:H2'	23:BB:66:C:H6	1.64	0.62
2:CC:182:ASP:HB3	2:CC:201:ILE:HB	1.80	0.62
23:DB:1548:A:H2'	23:DB:1549:A:C8	2.34	0.62
1:AA:278:G:N2	1:AA:279:A:H62	1.97	0.62
23:BB:1386:C:H2'	23:BB:1387:A:C8	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CB:65:LYS:HB2	20:CB:157:PRO:HA	1.80	0.62
23:DB:1571:A:H2'	23:DB:1572:A:C8	2.34	0.62
23:DB:1682:G:H2'	23:DB:1683:U:C6	2.34	0.62
23:BB:608:A:H2'	23:BB:609:A:C8	2.34	0.62
23:DB:967:U:H2'	23:DB:968:C:C6	2.34	0.62
12:AM:22:TYR:HB3	12:AM:69:ARG:HH22	1.63	0.62
23:BB:2415:G:H2'	23:BB:2416:C:H6	1.62	0.62
23:DB:1722:A:H2'	23:DB:1723:G:C8	2.34	0.62
23:BB:1854:A:H62	23:BB:1888:G:H8	1.46	0.62
29:DG:168:VAL:HG23	51:D4:31:PRO:HB3	1.81	0.62
23:DB:2848:G:H1'	23:DB:2868:A:N6	2.14	0.62
37:DP:91:VAL:HG23	37:DP:92:ARG:H	1.65	0.62
23:BB:444:C:H5''	27:BE:44:ARG:NH1	2.14	0.62
23:DB:2742:G:H5''	51:D4:38:GLY:HA2	1.80	0.62
23:BB:2574:G:O2'	26:BD:151:THR:HG21	1.99	0.62
39:BR:78:ARG:HD3	39:BR:88:GLY:N	2.14	0.62
16:AQ:10:ARG:HH11	16:AQ:55:GLY:N	1.96	0.62
39:BR:41:ILE:O	39:BR:43:ASN:N	2.31	0.62
44:BX:43:LEU:HA	44:BX:47:ARG:HB3	1.81	0.62
23:BB:547:A:H3'	23:BB:548:G:C8	2.28	0.62
23:DB:1060:U:O4	23:DB:1088:A:N6	2.31	0.62
44:DX:50:VAL:O	44:DX:54:LYS:HB2	1.99	0.62
25:BC:245:THR:O	25:BC:247:TRP:N	2.32	0.62
1:CA:1250:A:C4'	8:CI:69:GLY:H	2.10	0.62
32:DK:43:ILE:HG12	32:DK:52:VAL:HG12	1.81	0.62
32:DK:66:LYS:HA	32:DK:79:PHE:O	1.99	0.62
8:CI:29:ILE:HG23	8:CI:32:ARG:HB2	1.81	0.62
25:DC:10:PRO:CD	25:DC:202:ARG:HH22	2.12	0.62
1:CA:939:G:H5''	6:CG:101:ARG:HH22	1.63	0.62
49:B2:35:ARG:HH12	49:B2:39:ARG:HG2	1.63	0.62
23:DB:1386:C:H2'	23:DB:1387:A:C8	2.34	0.62
23:BB:1590:A:H2'	23:BB:1591:A:H8	1.64	0.62
1:AA:1074:G:H2'	1:AA:1075:U:H6	1.64	0.62
10:AK:58:THR:HG23	10:AK:61:ALA:CB	2.30	0.62
1:CA:524:G:H2'	1:CA:525:C:C6	2.34	0.62
28:BF:128:SER:HA	28:BF:154:THR:HG23	1.81	0.62
23:BB:2227:A:H4'	25:BC:258:SER:HA	1.80	0.62
42:DU:79:ALA:O	42:DU:96:LYS:HB3	1.99	0.62
24:DV:48:MET:HE1	24:DV:85:LYS:HA	1.81	0.62
36:DO:91:SER:HB3	36:DO:115:LEU:HD22	1.81	0.62
23:BB:381:G:O2'	23:BB:382:A:H5'	1.99	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:158:GLY:HA3	29:BG:170:THR:HG21	1.80	0.62
33:DL:2:ARG:HG3	33:DL:2:ARG:HH11	1.64	0.62
40:DS:27:LYS:HA	40:DS:70:LYS:HB3	1.81	0.62
23:DB:1100:C:H2'	23:DB:1101:U:H6	1.64	0.62
43:DW:35:ILE:CD1	43:DW:35:ILE:H	2.10	0.62
25:BC:46:GLY:O	25:BC:47:ARG:HB2	1.98	0.62
43:BW:42:THR:HA	43:BW:74:LYS:HA	1.80	0.62
23:DB:1365:A:OP2	46:DZ:9:TYR:HE2	1.81	0.62
23:BB:2575:C:C4'	26:BD:148:GLN:HA	2.28	0.62
23:DB:1024:G:C3'	23:DB:1025:G:H5''	2.28	0.62
23:DB:1802:A:H2'	23:DB:1803:A:C8	2.34	0.62
1:AA:408:A:H3'	1:AA:409:U:H6	1.63	0.62
13:AN:63:CYS:HB3	13:AN:67:GLY:N	2.08	0.62
44:BX:28:LEU:HB3	44:BX:34:SER:CA	2.24	0.62
26:DD:125:TRP:CD1	26:DD:127:PHE:HB2	2.34	0.62
26:BD:46:ARG:HD2	26:BD:80:TRP:CZ2	2.34	0.62
26:BD:4:LEU:HD13	26:BD:79:LEU:CD1	2.28	0.62
25:BC:224:MET:HA	25:BC:232:GLY:CA	2.28	0.62
35:DN:87:PHE:CD1	35:DN:90:ARG:HB2	2.34	0.62
25:DC:3:VAL:HG12	25:DC:4:LYS:H	1.64	0.62
23:DB:2415:G:H2'	23:DB:2416:C:H6	1.62	0.62
7:CH:35:ILE:O	7:CH:38:VAL:HG12	1.99	0.62
23:DB:2306:C:H3'	23:DB:2307:G:C5'	2.29	0.62
29:BG:136:ASP:OD1	29:BG:138:GLN:HB3	1.99	0.62
23:DB:182:A:H2'	23:DB:183:C:H6	1.63	0.62
9:AJ:30:LYS:HB2	9:AJ:36:VAL:HG21	1.81	0.62
23:BB:1779:U:H5	23:BB:1784:A:N7	1.97	0.62
3:CD:148:ALA:O	3:CD:151:GLN:HG2	1.99	0.62
12:AM:89:ARG:HB2	12:AM:96:VAL:HG12	1.81	0.62
23:BB:1319:C:O2'	23:BB:1320:C:H5'	1.98	0.62
23:BB:2274:A:H2'	23:BB:2276:G:OP1	2.00	0.62
1:AA:636:U:H2'	1:AA:637:C:C6	2.35	0.62
23:BB:244:A:H2'	23:BB:245:G:O4'	2.00	0.62
43:DW:13:ARG:HE	43:DW:13:ARG:N	1.88	0.62
23:DB:2088:A:H2'	23:DB:2089:C:H6	1.64	0.62
34:BM:45:GLN:NE2	34:BM:119:LEU:HB3	2.14	0.62
23:DB:2292:U:H2'	23:DB:2293:G:C8	2.34	0.62
36:DO:71:ALA:HB1	36:DO:106:LEU:HB2	1.81	0.62
36:DO:51:ALA:HB3	36:DO:78:VAL:HG22	1.81	0.62
23:BB:1131:G:H1'	23:BB:1133:A:N6	2.14	0.62
25:BC:63:ILE:HG22	25:BC:64:VAL:H	1.64	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DM:16:ARG:HH22	34:DM:72:PRO:HG2	1.65	0.62
27:BE:109:LEU:HD23	27:BE:110:SER:N	2.14	0.62
10:AK:22:ILE:HD13	10:AK:95:THR:HG21	1.81	0.62
23:BB:143:C:H2'	23:BB:144:A:N9	2.13	0.62
12:CM:56:ARG:HH11	12:CM:56:ARG:HG3	1.63	0.62
39:DR:39:LEU:H	39:DR:61:ALA:CB	2.11	0.62
52:DI:71:LYS:HB3	52:DI:115:ASP:OD2	1.99	0.62
1:AA:918:A:H2'	1:AA:919:A:C8	2.34	0.62
30:DH:65:ALA:HA	30:DH:68:ARG:HB2	1.81	0.62
8:AI:11:ARG:NH2	8:AI:12:LYS:HB2	2.14	0.62
23:BB:932:U:H5'	23:BB:933:A:OP1	1.99	0.62
15:AP:71:VAL:HA	15:AP:74:LEU:HG	1.79	0.62
44:BX:30:MET:HG3	44:BX:31:GLN:N	2.14	0.62
10:AK:56:LYS:H	10:AK:56:LYS:HD3	1.64	0.62
23:BB:172:A:H2'	23:BB:173:A:C8	2.34	0.62
23:BB:1097:U:H2'	23:BB:1098:A:H5'	1.81	0.62
1:CA:636:U:H2'	1:CA:637:C:C6	2.34	0.62
41:BT:36:LYS:C	41:BT:36:LYS:HD3	2.20	0.62
23:DB:1295:C:H2'	23:DB:1296:G:H8	1.64	0.62
23:DB:1098:A:O5'	52:DI:3:LYS:HG2	2.00	0.62
37:DP:69:VAL:HG13	37:DP:70:GLU:N	2.12	0.62
23:BB:1818:U:O3'	25:BC:155:ARG:HB2	2.00	0.62
23:BB:969:G:H2'	23:BB:970:U:C6	2.35	0.62
34:BM:65:ILE:HG22	34:BM:101:VAL:HA	1.82	0.62
23:BB:479:A:O2'	23:BB:480:A:OP2	2.15	0.62
28:DF:18:GLU:C	28:DF:20:ASN:H	2.03	0.62
33:BL:79:LEU:HD12	33:BL:79:LEU:H	1.64	0.62
1:CA:1329:A:H5''	12:CM:25:GLY:H	1.63	0.62
1:CA:107:G:H2'	1:CA:108:G:H5''	1.81	0.62
26:BD:62:LYS:HG2	26:BD:63:PRO:CD	2.29	0.62
25:DC:21:PRO:HD2	25:DC:202:ARG:NH1	2.13	0.62
1:CA:1071:C:H2'	1:CA:1072:G:C8	2.33	0.62
23:BB:1548:A:H2'	23:BB:1549:A:C8	2.34	0.62
23:BB:1485:U:H2'	23:BB:1486:U:H6	1.63	0.62
4:AE:84:VAL:HG22	4:AE:85:LYS:H	1.65	0.62
23:BB:19:A:H5''	38:BQ:20:ALA:O	1.99	0.62
13:AN:42:ASN:O	13:AN:46:LYS:HG3	2.00	0.62
4:CE:95:MET:HA	4:CE:124:ALA:HB2	1.79	0.62
1:CA:492:C:C2'	1:CA:493:A:H5''	2.28	0.62
25:DC:28:PRO:HB2	25:DC:79:ARG:HG2	1.80	0.62
23:DB:438:G:H2'	23:DB:439:A:C8	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:D3:4:LYS:HE3	50:D3:61:LEU:HB2	1.81	0.62
23:DB:1590:A:H2'	23:DB:1591:A:H8	1.64	0.62
29:DG:75:VAL:O	29:DG:79:THR:HG22	1.99	0.62
7:CH:19:ALA:HB3	7:CH:21:LYS:HG2	1.80	0.62
1:CA:980:C:H2'	1:CA:981:U:H5'	1.80	0.62
16:CQ:24:ILE:HD13	16:CQ:43:LEU:HD13	1.81	0.62
29:DG:55:ASP:CG	29:DG:56:GLY:H	2.02	0.62
25:DC:235:GLU:HG3	25:DC:236:GLY:H	1.64	0.62
23:DB:2233:U:H2'	23:DB:2234:G:C8	2.35	0.62
23:DB:1099:G:C8	52:DI:3:LYS:CB	2.83	0.62
30:BH:82:SER:HB2	30:BH:94:ILE:HD11	1.80	0.62
23:BB:2848:G:H1'	23:BB:2868:A:N6	2.14	0.62
25:DC:68:ARG:NH2	25:DC:190:THR:HG23	2.14	0.62
23:DB:340:A:H2'	23:DB:341:C:O4'	1.99	0.62
23:BB:2678:C:H2'	23:BB:2679:A:C8	2.35	0.62
40:BS:4:ILE:HG22	40:BS:5:ALA:H	1.64	0.62
26:BD:107:VAL:HG23	26:BD:204:LYS:O	2.00	0.62
23:DB:1151:A:H2'	23:DB:1152:C:H6	1.63	0.62
23:DB:997:G:H5'	38:DQ:92:LYS:HG3	1.81	0.62
23:BB:274:C:H2'	23:BB:275:C:O4'	2.00	0.62
23:BB:2066:C:O2'	23:BB:2067:G:H5'	2.00	0.62
38:BQ:101:ASP:HB3	38:BQ:104:ALA:HB3	1.81	0.62
9:CJ:53:ILE:HG22	9:CJ:61:ALA:HB1	1.81	0.62
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.00	0.62
20:AB:75:ALA:O	20:AB:79:VAL:HB	2.00	0.62
20:CB:162:VAL:HG11	20:CB:172:ILE:HD11	1.82	0.62
1:CA:1143:G:H2'	1:CA:1144:G:H8	1.64	0.62
1:CA:1409:C:H2'	1:CA:1410:A:H8	1.65	0.62
27:DE:191:ASP:HA	27:DE:194:LYS:HE3	1.81	0.62
23:BB:536:G:H4'	38:BQ:56:PHE:CZ	2.35	0.62
1:CA:810:C:O2'	1:CA:811:C:H5'	1.99	0.62
20:AB:101:THR:HG23	20:AB:102:ASN:H	1.65	0.62
1:AA:957:U:H3	1:AA:960:U:H5''	1.65	0.62
1:CA:384:G:H2'	1:CA:385:C:C6	2.34	0.62
23:DB:1459:G:O2'	23:DB:1460:U:H5'	1.98	0.62
25:BC:220:ARG:CZ	25:BC:220:ARG:HA	2.29	0.62
13:CN:32:ASP:HB2	13:CN:34:ASN:ND2	2.14	0.62
30:DH:96:THR:HG23	30:DH:97:ARG:HG2	1.81	0.62
15:CP:20:VAL:HG23	15:CP:34:GLU:O	1.99	0.62
3:AD:147:LYS:H	3:AD:147:LYS:HE3	1.65	0.62
23:DB:1098:A:C3'	52:DI:4:VAL:N	2.62	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:86:LYS:O	37:BP:87:ARG:HG3	1.99	0.62
25:BC:107:LYS:H	25:BC:194:VAL:HG21	1.63	0.62
47:D0:41:HIS:CD2	47:D0:46:GLY:HA2	2.35	0.62
23:DB:337:C:H2'	23:DB:338:G:O4'	1.99	0.62
23:BB:633:A:H2'	23:BB:634:C:H5'	1.81	0.62
3:AD:20:LEU:O	3:AD:21:LYS:HE3	2.00	0.62
41:DT:66:LYS:HZ3	41:DT:66:LYS:C	2.02	0.62
23:BB:1155:A:H61	45:BY:10:ARG:HH12	1.46	0.62
40:DS:7:HIS:CD2	40:DS:10:ALA:HB2	2.35	0.62
34:DM:41:LEU:HD23	34:DM:93:VAL:HG11	1.82	0.62
44:BX:29:ARG:HA	44:BX:34:SER:HB2	1.82	0.62
23:DB:28:A:N6	23:DB:512:G:H1'	2.14	0.62
26:DD:30:GLU:HG2	26:DD:94:GLN:HE22	1.64	0.62
26:DD:17:GLU:HG2	37:DP:80:VAL:HB	1.81	0.62
39:DR:6:GLN:NE2	39:DR:6:GLN:N	2.47	0.62
33:DL:118:THR:HG23	33:DL:119:PRO:CD	2.29	0.62
42:DU:71:ILE:HG21	42:DU:102:ILE:HD12	1.80	0.62
36:BO:1:MET:HG2	36:BO:3:LYS:N	2.15	0.62
32:DK:33:ALA:HB2	32:DK:39:ILE:HD11	1.81	0.62
5:CF:47:LEU:HD21	5:CF:57:ALA:CB	2.30	0.62
9:AJ:24:GLU:OE1	9:AJ:90:LEU:HD22	1.98	0.62
23:BB:2813:A:H2'	23:BB:2814:A:C8	2.34	0.62
42:DU:46:LYS:HD3	42:DU:53:GLN:HG3	1.82	0.62
1:AA:973:G:H1'	9:AJ:56:HIS:ND1	2.15	0.62
23:BB:1843:C:H5''	25:BC:252:LYS:NZ	2.15	0.62
28:BF:33:ILE:HD11	28:BF:90:LEU:HB2	1.81	0.62
23:DB:2249:U:H4'	23:DB:2275:C:H5	1.65	0.62
23:BB:364:C:H2'	23:BB:365:U:H6	1.65	0.62
23:BB:1571:A:H2'	23:BB:1572:A:C8	2.34	0.62
1:AA:1017:U:H2'	1:AA:1018:G:C8	2.34	0.62
20:AB:128:LEU:HG	20:AB:132:GLU:HG2	1.82	0.62
23:DB:1495:A:H2'	23:DB:1496:A:C8	2.35	0.62
30:BH:89:LYS:C	30:BH:90:LEU:HD12	2.20	0.62
20:CB:46:VAL:HA	20:CB:49:PHE:CD2	2.35	0.62
37:BP:52:ARG:HH11	37:BP:54:LEU:HB3	1.63	0.62
25:BC:67:LYS:O	25:BC:68:ARG:HB2	1.99	0.62
23:BB:162:U:O2'	23:BB:163:C:H5'	2.00	0.62
23:DB:2784:U:H2'	23:DB:2785:C:H6	1.62	0.62
23:BB:968:C:H2'	23:BB:969:G:H8	1.64	0.62
20:AB:147:LEU:O	20:AB:150:ILE:HG22	2.00	0.62
38:BQ:111:LYS:HB2	39:BR:52:PRO:HB3	1.82	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:48:SER:O	12:AM:52:ILE:HG22	1.98	0.62
1:AA:763:G:H2'	1:AA:764:C:C6	2.33	0.62
43:BW:35:ILE:HG23	43:BW:36:ILE:N	2.11	0.62
26:DD:31:ALA:HB3	26:DD:95:SER:H	1.65	0.62
33:BL:94:THR:CB	33:BL:103:ILE:HG12	2.29	0.62
1:AA:1005:A:H3'	1:AA:1006:G:H8	1.64	0.62
39:DR:69:GLY:HA2	39:DR:96:VAL:HA	1.81	0.62
35:DN:30:ARG:HH12	35:DN:74:GLU:HG2	1.63	0.62
32:BK:35:VAL:HG12	32:BK:69:VAL:HG22	1.82	0.62
2:CC:61:LYS:HB3	2:CC:61:LYS:NZ	2.14	0.62
42:DU:57:ILE:HD13	42:DU:58:VAL:N	2.13	0.62
23:BB:1469:A:H2'	23:BB:1470:A:H8	1.62	0.62
23:DB:1178:C:H2'	23:DB:1179:G:H8	1.63	0.62
23:DB:2147:A:H4'	23:DB:2148:G:C8	2.34	0.62
23:BB:365:U:H2'	23:BB:366:C:C6	2.35	0.62
28:BF:116:LEU:HG	28:BF:176:PHE:HA	1.80	0.62
28:BF:177:ARG:HE	28:BF:178:LYS:N	1.97	0.62
1:AA:841:C:H3'	1:AA:843:U:OP2	1.99	0.62
27:DE:134:LEU:H	27:DE:134:LEU:HD13	1.65	0.62
36:DO:82:ALA:C	36:DO:87:ILE:HG21	2.20	0.62
9:CJ:85:ASP:HB2	9:CJ:89:ARG:NH2	2.14	0.62
43:BW:2:HIS:C	43:BW:3:LYS:HD2	2.20	0.62
1:AA:135:C:O2	15:AP:1:MET:HB2	1.99	0.62
1:AA:1444:U:H2'	1:AA:1445:U:C6	2.35	0.62
34:BM:3:GLN:NE2	34:BM:5:LYS:H	1.98	0.62
25:DC:139:THR:HA	25:DC:193:GLU:OE1	2.00	0.62
23:BB:854:C:H2'	23:BB:855:G:H8	1.65	0.62
23:BB:923:G:O2'	23:BB:924:G:H5'	2.00	0.62
43:BW:44:PHE:CE2	43:BW:60:ALA:HB3	2.34	0.62
46:DZ:49:ARG:C	46:DZ:51:VAL:H	2.03	0.62
23:BB:2678:C:H2'	23:BB:2679:A:H8	1.65	0.62
38:BQ:60:TRP:O	38:BQ:64:ILE:HG13	2.00	0.62
27:BE:147:LEU:HB3	27:BE:183:PHE:CD2	2.35	0.62
51:B4:2:LYS:NZ	51:B4:2:LYS:HB3	2.15	0.62
10:AK:105:ARG:HH21	21:AU:10:PRO:HG3	1.64	0.62
26:BD:106:LYS:HZ1	26:BD:208:LYS:HD3	1.65	0.62
26:BD:32:ASN:ND2	26:BD:94:GLN:HG2	2.15	0.62
33:BL:79:LEU:HD12	33:BL:79:LEU:N	2.15	0.62
8:CI:94:ARG:HB3	8:CI:98:ARG:NE	2.14	0.62
35:DN:70:THR:HG22	35:DN:72:ASP:H	1.65	0.62
23:DB:1551:A:C3'	23:DB:1552:A:H5''	2.30	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1802:A:H2'	23:BB:1803:A:C8	2.34	0.62
29:BG:71:LEU:HA	29:BG:74:MET:HG3	1.82	0.62
1:CA:408:A:H3'	1:CA:409:U:H6	1.63	0.62
23:BB:1159:U:H2'	23:BB:1160:G:H8	1.63	0.62
6:CG:30:MET:HG3	6:CG:34:LYS:O	2.00	0.62
3:AD:163:GLN:HB2	3:AD:164:ARG:NH1	2.14	0.62
6:CG:59:GLU:HA	6:CG:62:GLU:OE2	1.99	0.62
1:CA:1354:U:H2'	1:CA:1355:G:H8	1.63	0.62
1:AA:107:G:H2'	1:AA:108:G:H5''	1.81	0.62
23:DB:1509:A:H5'	23:DB:1510:G:H5'	1.80	0.62
13:AN:17:ASP:HA	13:AN:21:ALA:CB	2.30	0.62
34:DM:26:VAL:HG12	34:DM:27:SER:H	1.64	0.62
31:BJ:67:ASN:O	31:BJ:70:THR:HG22	1.99	0.62
23:DB:1641:A:H2'	23:DB:1642:G:O4'	1.98	0.62
20:AB:156:LEU:HD12	20:AB:156:LEU:H	1.63	0.62
23:BB:2185:U:H2'	23:BB:2186:G:H8	1.64	0.62
23:DB:2425:A:H5'	23:DB:2427:C:O4'	2.00	0.62
25:BC:43:ASN:OD1	25:BC:51:ARG:HD3	1.99	0.62
30:DH:4:ILE:HD11	30:DH:37:VAL:HA	1.81	0.62
23:DB:1819:A:OP1	25:DC:153:LEU:HB2	1.99	0.62
23:DB:3:U:H2'	23:DB:4:U:C6	2.34	0.62
15:AP:46:LYS:CE	15:AP:46:LYS:H	2.12	0.62
15:AP:46:LYS:HE2	15:AP:46:LYS:N	2.15	0.62
48:D1:15:GLY:HA3	48:D1:47:ILE:HG21	1.82	0.62
34:BM:69:PRO:HB2	34:BM:71:LYS:HZ1	1.65	0.62
3:AD:2:ARG:HH12	3:AD:114:ARG:HD2	1.65	0.62
45:BY:9:THR:CA	45:BY:55:LYS:HE2	2.29	0.62
26:BD:48:ILE:HG13	26:BD:80:TRP:NE1	2.15	0.62
28:DF:65:LEU:HD23	28:DF:87:LYS:HD2	1.80	0.62
21:AU:36:PHE:HB3	21:AU:40:PRO:CG	2.30	0.62
1:AA:1238:A:C2	1:AA:1241:G:H1'	2.35	0.62
42:DU:9:GLU:HB2	42:DU:71:ILE:HG13	1.82	0.62
40:BS:88:ARG:HD2	40:BS:93:ALA:HB3	1.81	0.62
49:D2:17:GLY:O	49:D2:19:ARG:N	2.32	0.62
19:CT:3:ILE:O	19:CT:4:LYS:HB2	2.00	0.62
9:AJ:88:MET:HB2	9:AJ:89:ARG:NH1	2.15	0.62
34:DM:133:LYS:HD2	34:DM:134:THR:O	2.00	0.62
1:AA:590:U:H2'	1:AA:591:U:C6	2.35	0.62
23:BB:2472:G:H2'	23:BB:2475:C:H42	1.64	0.62
6:CG:11:ILE:HG21	6:CG:27:ASN:HD21	1.65	0.62
1:AA:492:C:C2'	1:AA:493:A:H5''	2.28	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1181:U:H2'	23:DB:1182:G:C8	2.35	0.62
14:AO:87:ARG:HH11	14:AO:87:ARG:HA	1.65	0.62
23:BB:436:C:O2'	23:BB:437:U:H5'	2.00	0.62
23:BB:438:G:H2'	23:BB:439:A:H8	1.65	0.62
29:BG:124:CYS:HB3	29:BG:129:GLU:O	1.99	0.62
10:AK:56:LYS:O	10:AK:58:THR:HG22	1.99	0.62
1:AA:313:A:H2'	1:AA:314:C:C6	2.35	0.62
23:DB:401:A:H2'	23:DB:402:A:H8	1.65	0.62
1:CA:168:G:O2'	1:CA:169:C:H5'	1.99	0.62
1:AA:384:G:H2'	1:AA:385:C:C6	2.35	0.62
23:BB:1722:A:N6	23:BB:1738:G:H1'	2.15	0.62
25:BC:179:GLU:CG	25:BC:266:ILE:HA	2.30	0.62
25:BC:179:GLU:HG3	25:BC:266:ILE:HA	1.82	0.62
29:DG:94:ARG:HB2	29:DG:105:SER:HB2	1.82	0.62
6:CG:87:PRO:HG3	6:CG:148:LYS:HA	1.81	0.62
1:CA:1200:C:C4'	1:CA:1201:A:H5'	2.29	0.62
2:CC:150:VAL:HG22	2:CC:199:VAL:HG12	1.82	0.62
16:AQ:26:ARG:HH21	16:AQ:39:ARG:CZ	2.12	0.62
23:DB:664:G:H2'	23:DB:665:U:H6	1.65	0.62
23:BB:189:G:OP2	46:BZ:12:ILE:HG12	1.99	0.62
42:BU:5:ARG:CG	42:BU:6:ARG:H	2.13	0.61
26:BD:23:PRO:HB3	26:BD:189:VAL:N	2.15	0.61
36:DO:15:ARG:HH12	43:DW:76:ARG:HE	1.45	0.61
43:DW:36:ILE:HG13	43:DW:38:ARG:H	1.65	0.61
25:BC:103:ILE:HG22	25:BC:104:LEU:N	2.15	0.61
38:DQ:36:GLN:O	38:DQ:39:ILE:HG23	1.99	0.61
33:BL:61:LEU:HD22	33:BL:61:LEU:H	1.64	0.61
47:B0:41:HIS:HD2	47:B0:42:ILE:HG22	1.65	0.61
23:BB:2743:U:H2'	23:BB:2744:G:O4'	2.00	0.61
19:AT:70:LYS:NZ	19:AT:70:LYS:HB2	2.13	0.61
6:CG:125:ASP:HB3	6:CG:129:ASN:HA	1.83	0.61
2:CC:18:ASN:O	2:CC:55:VAL:HA	2.00	0.61
23:DB:2678:C:H2'	23:DB:2679:A:C8	2.35	0.61
43:BW:16:GLU:CG	43:BW:37:VAL:HG22	2.30	0.61
23:DB:2008:C:H2'	23:DB:2009:A:C8	2.31	0.61
23:BB:1551:A:C3'	23:BB:1552:A:H5''	2.30	0.61
1:CA:33:A:H1'	11:CL:27:PRO:HG3	1.81	0.61
23:DB:1439:A:N7	23:DB:1440:U:C6	2.68	0.61
1:AA:275:G:O5'	16:AQ:15:LYS:HG2	2.00	0.61
7:CH:6:ILE:HD11	7:CH:31:LEU:HD23	1.82	0.61
23:DB:2405:G:H5'	33:DL:70:LYS:HG3	1.81	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1117:C:H2'	23:BB:1118:C:H6	1.65	0.61
34:DM:96:ILE:N	34:DM:96:ILE:HD12	2.15	0.61
28:DF:177:ARG:NH2	28:DF:178:LYS:HA	2.14	0.61
1:AA:1182:G:H4'	1:AA:1183:U:H5'	1.81	0.61
25:DC:210:ALA:HA	25:DC:213:ARG:HD2	1.82	0.61
23:DB:1779:U:H5	23:DB:1784:A:N7	1.97	0.61
11:AL:43:LYS:N	11:AL:44:PRO:HD2	2.15	0.61
23:DB:925:A:O2'	23:DB:926:G:H5'	2.00	0.61
23:DB:1254:A:N1	27:DE:77:ILE:HD12	2.14	0.61
23:DB:1164:C:H2'	23:DB:1165:A:C8	2.36	0.61
23:BB:1295:C:H2'	23:BB:1296:G:H8	1.65	0.61
48:D1:19:PHE:HD1	48:D1:20:TYR:H	1.48	0.61
23:DB:30:G:H2'	23:DB:31:C:C6	2.34	0.61
1:CA:590:U:H2'	1:CA:591:U:C6	2.35	0.61
26:BD:22:ILE:N	26:BD:23:PRO:CD	2.63	0.61
31:DJ:96:ARG:HG3	31:DJ:98:GLU:OE1	1.99	0.61
23:DB:1225:G:OP1	39:DR:90:ARG:HD2	2.00	0.61
24:BV:17:SER:HB3	24:BV:21:ARG:HH12	1.65	0.61
16:AQ:10:ARG:NE	16:AQ:10:ARG:HA	2.15	0.61
23:DB:1797:G:O3'	25:DC:253:GLY:HA2	1.99	0.61
8:AI:80:HIS:O	8:AI:84:ARG:HB2	1.99	0.61
31:DJ:45:THR:HG22	31:DJ:47:HIS:H	1.65	0.61
21:CU:17:ARG:H	21:CU:17:ARG:CD	2.09	0.61
27:BE:105:LEU:HD22	27:BE:177:PRO:HG2	1.81	0.61
26:DD:27:ILE:HG12	26:DD:185:ASN:O	2.00	0.61
33:DL:78:ARG:NE	33:DL:113:ALA:HB1	2.14	0.61
41:BT:13:ALA:O	41:BT:32:LEU:HA	2.00	0.61
23:DB:2755:C:H2'	51:D4:19:ARG:HH21	1.64	0.61
27:BE:57:LYS:HA	27:BE:57:LYS:HE3	1.81	0.61
44:DX:44:LYS:HG2	44:DX:47:ARG:HB2	1.82	0.61
26:BD:33:ARG:HG3	26:BD:34:VAL:H	1.64	0.61
7:AH:111:THR:H	7:AH:114:ALA:HB3	1.64	0.61
29:BG:18:ILE:HA	29:BG:23:ILE:HD13	1.82	0.61
15:CP:68:SER:OG	15:CP:71:VAL:HG12	2.00	0.61
1:AA:32:A:H2'	1:AA:33:A:C8	2.34	0.61
42:DU:9:GLU:HB2	42:DU:71:ILE:CB	2.30	0.61
23:DB:1064:C:H4'	52:DI:90:GLY:CA	2.28	0.61
1:CA:60:A:H4'	1:CA:61:G:O5'	2.00	0.61
1:AA:16:A:O2'	4:AE:20:VAL:HG13	2.00	0.61
26:BD:60:VAL:HB	26:BD:63:PRO:HG2	1.80	0.61
25:BC:70:LYS:HE3	25:BC:95:TYR:CE2	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CH:124:ILE:HD12	7:CH:125:ILE:N	2.15	0.61
23:BB:1439:A:N7	23:BB:1440:U:C6	2.68	0.61
1:CA:1437:A:H2'	1:CA:1438:G:H8	1.65	0.61
52:DI:121:ILE:N	52:DI:121:ILE:HD13	2.15	0.61
29:DG:175:LYS:HG2	29:DG:176:LYS:N	2.14	0.61
23:DB:448:U:H3'	27:DE:79:ARG:HE	1.63	0.61
1:CA:859:G:H2'	1:CA:860:A:H8	1.65	0.61
29:BG:86:LEU:HD12	29:BG:161:VAL:HG12	1.82	0.61
23:DB:2324:U:H3'	23:DB:2325:G:H5''	1.82	0.61
23:DB:222:A:H61	23:DB:232:G:H1'	1.62	0.61
52:BI:135:MET:HG3	52:BI:137:LEU:HG	1.82	0.61
7:AH:8:ASP:OD2	7:AH:12:ARG:HD2	1.99	0.61
23:BB:1722:A:H2'	23:BB:1723:G:C8	2.34	0.61
27:DE:77:ILE:O	27:DE:77:ILE:HG12	1.99	0.61
23:BB:1682:G:H2'	23:BB:1683:U:C6	2.35	0.61
28:DF:67:THR:OG1	28:DF:85:GLY:HA3	1.99	0.61
23:DB:620:G:H5'	23:DB:620:G:N3	2.15	0.61
20:AB:87:ASP:O	20:AB:88:GLN:HG3	2.01	0.61
12:CM:6:ILE:O	12:CM:8:ILE:HG23	2.00	0.61
23:DB:1099:G:H8	52:DI:3:LYS:CB	2.13	0.61
43:DW:67:LYS:HD2	43:DW:70:VAL:N	2.15	0.61
36:BO:49:VAL:HG22	36:BO:50:ALA:N	2.13	0.61
23:BB:972:A:C3'	23:BB:973:A:H5''	2.30	0.61
23:DB:144:A:C6	41:DT:3:ARG:NH1	2.68	0.61
23:DB:2293:G:H5''	36:DO:9:ARG:HH21	1.64	0.61
42:BU:40:LEU:O	42:BU:42:LYS:HD2	2.00	0.61
1:CA:1151:A:O2'	1:CA:1152:A:H5''	2.00	0.61
9:AJ:53:ILE:HG12	9:AJ:63:ASP:HB2	1.82	0.61
26:BD:16:THR:C	37:BP:80:VAL:HB	2.20	0.61
21:CU:24:LYS:CD	21:CU:25:ALA:H	2.11	0.61
26:BD:128:ARG:NH2	26:BD:130:GLN:HG3	2.14	0.61
35:BN:1:MET:HE3	35:BN:3:HIS:H	1.64	0.61
1:AA:1506:U:H4'	10:AK:128:VAL:OXT	2.00	0.61
33:DL:62:PRO:HB3	50:D3:12:ARG:NE	2.16	0.61
23:DB:784:G:O2'	23:DB:785:G:H5''	2.01	0.61
5:AF:4:TYR:O	5:AF:63:ASN:HA	2.00	0.61
1:CA:1078:U:H4'	4:CE:137:ARG:HH12	1.66	0.61
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.35	0.61
23:BB:1915:U:H3'	23:BB:1916:A:H8	1.66	0.61
1:CA:673:A:H4'	5:CF:86:ARG:HD2	1.81	0.61
48:B1:13:SER:N	48:B1:50:GLU:HA	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:20:ASN:CG	25:DC:202:ARG:HD3	2.20	0.61
33:DL:18:ARG:HH22	33:DL:21:ARG:HD3	1.65	0.61
23:BB:1791:A:C2	23:BB:1829:A:H4'	2.35	0.61
23:BB:1405:U:H2'	23:BB:1406:U:C6	2.36	0.61
23:DB:453:A:H4'	23:DB:472:A:N6	2.15	0.61
23:DB:912:C:O2'	23:DB:913:U:H5'	1.99	0.61
23:DB:1722:A:N6	23:DB:1738:G:H1'	2.15	0.61
10:AK:36:ARG:HG2	10:AK:37:GLN:H	1.65	0.61
23:BB:198:C:O2'	23:BB:199:A:H5''	2.00	0.61
25:BC:37:SER:OG	25:BC:62:ARG:HG3	2.00	0.61
1:CA:1030:U:H5''	1:CA:1031:C:C5	2.34	0.61
1:CA:841:C:H3'	1:CA:843:U:OP2	1.99	0.61
6:CG:144:ALA:C	6:CG:146:ALA:H	2.04	0.61
14:AO:55:LEU:O	14:AO:59:VAL:HG23	2.00	0.61
9:AJ:31:ARG:HH11	9:AJ:31:ARG:HG2	1.65	0.61
23:BB:526:A:N6	23:BB:2626:C:H4'	2.16	0.61
23:BB:2455:G:H2'	23:BB:2456:C:C6	2.36	0.61
43:DW:42:THR:HB	43:DW:75:ASN:CG	2.21	0.61
30:DH:3:VAL:HB	30:DH:37:VAL:CG1	2.31	0.61
43:BW:54:ARG:HH11	43:BW:54:ARG:HG2	1.65	0.61
43:BW:66:VAL:HG22	43:BW:67:LYS:H	1.64	0.61
34:BM:42:THR:CG2	34:BM:45:GLN:HB2	2.30	0.61
23:BB:2575:C:H4'	26:BD:148:GLN:C	2.20	0.61
39:DR:65:ALA:CB	39:DR:99:THR:HG23	2.25	0.61
26:BD:170:VAL:HG11	26:BD:194:PRO:CB	2.29	0.61
39:BR:53:PHE:CE2	39:BR:54:VAL:HB	2.36	0.61
26:BD:128:ARG:CA	26:BD:128:ARG:HE	2.13	0.61
23:DB:358:U:H2'	23:DB:359:G:C8	2.35	0.61
34:DM:28:PHE:HB2	34:DM:102:LEU:HG	1.82	0.61
39:DR:71:LYS:HB2	39:DR:73:LYS:HZ1	1.64	0.61
23:DB:876:C:C2	23:DB:877:A:H1'	2.35	0.61
23:BB:2809:A:H2'	23:BB:2810:A:C8	2.36	0.61
23:BB:18:U:H2'	23:BB:19:A:H8	1.64	0.61
23:BB:1791:A:OP1	25:BC:211:ARG:HG2	2.00	0.61
40:DS:21:ALA:HB1	40:DS:74:ILE:HD12	1.82	0.61
30:DH:51:ARG:HG2	30:DH:51:ARG:HH11	1.65	0.61
1:AA:1074:G:H2'	1:AA:1075:U:C6	2.35	0.61
22:DA:65:U:O2'	22:DA:66:A:H5'	1.99	0.61
1:AA:642:A:H2'	1:AA:643:C:C6	2.35	0.61
20:CB:10:LYS:HB2	20:CB:211:LEU:CD2	2.30	0.61
23:DB:1201:U:H2'	23:DB:1202:G:C8	2.35	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:DV:53:LYS:HB3	24:DV:53:LYS:HZ2	1.66	0.61
1:CA:105:G:H2'	1:CA:106:C:H6	1.64	0.61
23:DB:937:C:H2'	23:DB:938:G:H8	1.65	0.61
38:DQ:25:GLY:HA2	38:DQ:29:ARG:HD2	1.82	0.61
20:CB:23:ASN:HD22	20:CB:24:PRO:HD2	1.63	0.61
23:BB:1105:U:H2'	23:BB:1106:G:C8	2.34	0.61
25:DC:136:VAL:HA	25:DC:165:ALA:HA	1.82	0.61
50:B3:2:LYS:O	50:B3:2:LYS:HD3	2.00	0.61
30:DH:131:SER:HB2	30:DH:141:LYS:HA	1.81	0.61
23:BB:37:C:O2'	27:BE:46:GLN:HB3	2.00	0.61
1:CA:974:A:C4'	1:CA:975:A:H5'	2.18	0.61
30:DH:11:ASN:HD22	30:DH:20:ASN:ND2	1.97	0.61
27:BE:130:LYS:HD3	27:BE:132:LYS:HD2	1.82	0.61
33:BL:62:PRO:C	50:B3:24:LYS:HD3	2.20	0.61
45:BY:16:LEU:N	45:BY:16:LEU:HD12	2.16	0.61
23:DB:136:G:H21	41:DT:3:ARG:HG2	1.66	0.61
23:DB:2574:G:N2	26:DD:147:GLY:HA3	2.11	0.61
23:BB:1656:C:H5''	26:BD:141:ARG:HB3	1.83	0.61
26:BD:128:ARG:HH22	26:BD:130:GLN:CG	2.13	0.61
23:DB:361:G:H2'	23:DB:362:A:H8	1.64	0.61
23:DB:1656:C:OP1	26:DD:141:ARG:HD2	2.00	0.61
23:DB:2678:C:H2'	23:DB:2679:A:H8	1.64	0.61
11:CL:64:SER:OG	11:CL:96:THR:HG23	2.01	0.61
28:BF:108:PRO:HB3	28:BF:113:PHE:CE2	2.36	0.61
23:BB:1439:A:C4	23:BB:1552:A:N6	2.69	0.61
3:CD:130:ASN:H	3:CD:130:ASN:HD22	1.49	0.61
23:DB:1405:U:H2'	23:DB:1406:U:C6	2.36	0.61
8:AI:4:GLN:HG2	8:AI:21:LYS:HG3	1.81	0.61
25:BC:15:VAL:HG12	25:BC:16:VAL:HG23	1.80	0.61
23:BB:831:G:O3'	33:BL:44:GLY:HA3	2.00	0.61
24:DV:48:MET:SD	24:DV:86:LEU:HD12	2.40	0.61
25:BC:220:ARG:NE	25:BC:220:ARG:HA	2.15	0.61
23:BB:1838:C:N4	23:BB:1898:U:H2'	2.15	0.61
1:CA:1154:G:O2'	1:CA:1155:A:H5'	2.01	0.61
22:BA:27:C:H5'	36:BO:34:HIS:CE1	2.35	0.61
29:DG:30:GLY:H	29:DG:78:VAL:HG23	1.65	0.61
45:DY:15:ARG:NE	45:DY:15:ARG:HA	2.16	0.61
22:BA:104:A:H2'	22:BA:105:G:O4'	2.00	0.61
23:BB:1712:U:H3'	23:BB:1713:A:H5''	1.83	0.61
1:AA:1040:U:H2'	1:AA:1041:G:H8	1.66	0.61
30:BH:132:PHE:HB3	30:BH:140:ALA:HB3	1.82	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AK:18:GLY:O	10:AK:81:LEU:HB2	2.00	0.61
26:BD:23:PRO:HG2	26:BD:178:VAL:HG21	1.81	0.61
33:DL:34:GLY:HA3	39:DR:85:LYS:HE2	1.82	0.61
1:AA:1320:C:C5	18:AS:36:ARG:HG2	2.36	0.61
1:AA:1217:C:OP1	13:AN:8:ARG:HD3	2.01	0.61
42:DU:4:ILE:HG22	42:DU:27:VAL:HG22	1.81	0.61
33:BL:126:ARG:NH2	33:BL:131:ALA:HB2	2.16	0.61
38:BQ:39:ILE:HG23	39:BR:80:ARG:HD3	1.82	0.61
23:DB:64:A:C5'	41:DT:76:ARG:HD2	2.30	0.61
39:BR:84:ARG:NH1	39:BR:86:GLN:HB3	2.15	0.61
1:CA:1023:U:H2'	1:CA:1024:G:C8	2.35	0.61
27:BE:147:LEU:HD13	27:BE:183:PHE:HA	1.83	0.61
33:DL:110:VAL:HG22	33:DL:127:VAL:HA	1.82	0.61
26:BD:129:THR:O	26:BD:140:HIS:HA	2.01	0.61
23:DB:2393:U:H4'	33:DL:62:PRO:O	2.01	0.61
26:BD:48:ILE:HG13	26:BD:80:TRP:HE1	1.64	0.61
28:BF:126:ASN:H	28:BF:126:ASN:ND2	1.98	0.61
23:DB:544:C:H4'	23:DB:545:U:OP1	2.00	0.61
37:BP:38:ARG:HG3	37:BP:39:LEU:N	2.15	0.61
12:CM:9:PRO:HB2	12:CM:17:ALA:HB1	1.83	0.61
1:AA:22:G:H4'	1:AA:885:G:C8	2.36	0.61
1:AA:1182:G:H4'	1:AA:1183:U:C5'	2.30	0.61
23:BB:1105:U:H2'	23:BB:1106:G:H8	1.65	0.61
1:AA:1011:C:H2'	1:AA:1012:A:H8	1.65	0.61
4:AE:33:THR:O	4:AE:34:ALA:HB3	2.00	0.61
1:AA:1132:C:H2'	1:AA:1133:G:O4'	2.00	0.61
5:AF:6:ILE:HD13	5:AF:89:VAL:HB	1.83	0.61
23:BB:2425:A:H5'	23:BB:2427:C:O4'	2.00	0.61
23:DB:104:A:H2'	23:DB:105:C:H6	1.66	0.61
26:DD:14:ILE:HD12	37:DP:78:PRO:CG	2.30	0.61
26:BD:175:LEU:HD22	26:BD:189:VAL:HG12	1.81	0.61
31:BJ:73:VAL:HB	31:BJ:75:TYR:CE1	2.35	0.61
23:BB:322:A:H5'	23:BB:340:A:H1'	1.83	0.61
24:BV:21:ARG:HA	24:BV:25:LYS:O	2.00	0.61
23:BB:527:C:H5'	23:BB:2779:U:O2	2.00	0.61
38:BQ:95:ALA:C	38:BQ:97:ILE:H	2.03	0.61
23:DB:918:A:H2'	23:DB:919:U:C5'	2.27	0.61
10:AK:111:ASP:HB2	21:AU:16:ARG:NH2	2.15	0.61
1:CA:1014:A:H4'	18:CS:13:HIS:CD2	2.36	0.61
33:DL:77:ILE:HD11	33:DL:109:LYS:HB2	1.83	0.61
28:DF:140:ILE:H	28:DF:140:ILE:CD1	2.13	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:187:LEU:HD23	26:BD:188:LEU:N	2.16	0.61
31:DJ:73:VAL:HG22	31:DJ:74:TYR:N	2.16	0.61
52:DI:27:LEU:HB2	52:DI:32:VAL:HG21	1.82	0.61
39:DR:69:GLY:HA2	39:DR:97:LYS:H	1.66	0.61
25:DC:20:ASN:CB	25:DC:202:ARG:HD3	2.31	0.61
25:DC:3:VAL:HG21	25:DC:9:SER:HB3	1.82	0.61
23:DB:2471:A:O2'	23:DB:2472:G:O5'	2.19	0.61
23:BB:1015:U:H2'	23:BB:1016:G:C8	2.36	0.61
41:BT:65:GLY:O	41:BT:66:LYS:HB3	2.01	0.61
22:DA:25:U:H4'	22:DA:27:C:OP1	2.00	0.61
38:DQ:10:ARG:O	38:DQ:14:LYS:HB2	2.01	0.61
45:DY:29:ARG:O	45:DY:33:HIS:HB3	2.00	0.61
1:CA:1292:G:H2'	1:CA:1293:C:C6	2.35	0.61
40:DS:36:LEU:HA	40:DS:39:THR:HG22	1.81	0.61
23:BB:664:G:H2'	23:BB:665:U:H6	1.65	0.61
19:AT:81:GLN:O	19:AT:85:LEU:HB3	2.01	0.61
23:DB:381:G:O2'	23:DB:382:A:H5'	2.00	0.61
7:AH:82:LEU:O	7:AH:82:LEU:HD13	1.99	0.61
43:BW:49:ASN:HB2	43:BW:53:GLY:HA3	1.82	0.61
23:DB:1821:A:H2'	23:DB:1822:C:C6	2.36	0.61
31:DJ:99:ARG:O	31:DJ:103:ILE:HG12	2.00	0.61
43:BW:23:LYS:NZ	43:BW:24:ARG:HG2	2.16	0.61
46:DZ:62:LYS:HA	46:DZ:65:ASN:HD21	1.66	0.61
33:BL:38:GLN:NE2	33:BL:39:LYS:H	1.98	0.61
23:BB:990:A:H1'	23:BB:1156:A:H2	1.65	0.61
1:AA:132:C:H5''	19:AT:68:LYS:HE3	1.83	0.61
1:CA:1342:C:H2'	1:CA:1343:G:C8	2.35	0.61
26:DD:48:ILE:HA	26:DD:79:LEU:O	2.01	0.61
30:DH:122:LEU:HA	30:DH:146:VAL:HG21	1.83	0.61
33:DL:110:VAL:O	33:DL:111:ILE:HG12	2.00	0.61
23:DB:285:G:H2'	23:DB:286:U:O4'	2.01	0.61
52:BI:27:LEU:CD2	52:BI:27:LEU:H	2.11	0.61
45:DY:2:LYS:HD2	45:DY:35:VAL:HB	1.82	0.61
29:DG:51:PHE:HE1	29:DG:53:PRO:HG3	1.66	0.61
29:BG:5:LYS:HG2	29:BG:65:GLY:HA2	1.83	0.61
25:DC:257:ARG:HA	25:DC:261:ARG:CD	2.30	0.61
23:DB:2472:G:H2'	23:DB:2475:C:H42	1.65	0.61
23:BB:2291:U:H2'	23:BB:2292:U:C6	2.35	0.61
25:DC:74:PRO:HG3	25:DC:116:GLN:HE21	1.64	0.61
1:CA:313:A:H2'	1:CA:314:C:C6	2.35	0.61
12:AM:22:TYR:HB3	12:AM:69:ARG:NH2	2.15	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1031:C:H4'	1:CA:1032:G:C5'	2.30	0.61
23:DB:1229:C:H2'	23:DB:1230:A:C8	2.36	0.61
23:BB:355:U:H2'	23:BB:356:G:C8	2.35	0.61
23:DB:1838:C:N4	23:DB:1898:U:H2'	2.15	0.61
17:CR:20:ILE:O	17:CR:21:ASP:HB2	2.00	0.61
11:AL:3:VAL:O	11:AL:7:VAL:HG23	1.99	0.61
25:BC:23:LEU:O	25:BC:23:LEU:HD12	2.01	0.61
23:BB:2888:C:H2'	23:BB:2889:C:C6	2.36	0.61
23:BB:1874:C:H2'	23:BB:1875:G:O4'	2.01	0.61
30:DH:66:ASN:HA	30:DH:138:VAL:HG22	1.83	0.61
23:BB:2423:U:H3	43:BW:1:ALA:HB2	1.66	0.61
23:DB:765:C:H2'	23:DB:766:U:H6	1.66	0.61
37:DP:112:ARG:N	37:DP:112:ARG:HE	1.98	0.61
37:DP:23:ASP:HA	37:DP:49:ILE:CG2	2.30	0.61
26:BD:21:SER:C	26:BD:23:PRO:HD3	2.20	0.61
25:BC:194:VAL:HG12	25:BC:195:GLY:N	2.16	0.61
23:BB:1019:U:H2'	23:BB:1020:A:C8	2.36	0.61
33:BL:91:ASP:OD2	33:BL:123:ARG:HD2	2.01	0.61
34:BM:34:LYS:HA	34:BM:99:GLY:HA3	1.83	0.61
33:BL:103:ILE:O	33:BL:104:GLN:HB3	2.00	0.61
26:BD:132:ALA:HA	26:BD:136:ASN:H	1.65	0.61
23:BB:670:A:H3'	33:BL:47:ARG:NH1	2.10	0.61
23:DB:1019:U:H2'	23:DB:1020:A:C8	2.35	0.61
39:DR:6:GLN:HE21	39:DR:6:GLN:N	1.98	0.61
35:BN:98:LEU:O	35:BN:111:ALA:HA	2.01	0.61
16:CQ:10:ARG:CZ	16:CQ:55:GLY:H	2.13	0.61
44:BX:45:GLN:H	44:BX:45:GLN:HE21	1.49	0.61
23:BB:2471:A:O2'	23:BB:2472:G:O5'	2.19	0.61
23:BB:2839:G:H21	35:BN:92:GLY:HA3	1.64	0.61
27:DE:99:LYS:HZ2	27:DE:100:MET:N	1.99	0.61
23:DB:1439:A:C4	23:DB:1552:A:N6	2.69	0.61
9:CJ:64:GLN:HB3	13:CN:98:ALA:HB3	1.83	0.61
23:BB:620:G:H5'	23:BB:620:G:N3	2.15	0.61
22:DA:66:A:HO2'	22:DA:67:G:H8	1.49	0.61
10:AK:97:ARG:HH11	10:AK:97:ARG:HB3	1.66	0.61
23:BB:557:C:O2'	31:BJ:114:LEU:HD13	2.01	0.61
1:AA:72:A:H2'	1:AA:73:C:C6	2.36	0.61
23:BB:2282:G:O2'	23:BB:2283:C:OP2	2.15	0.61
1:CA:900:A:O2'	1:CA:901:A:H5'	2.00	0.61
23:BB:2308:G:H5'	23:BB:2309:A:H5''	1.82	0.61
14:AO:2:LEU:HD23	14:AO:3:SER:N	2.16	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CB:36:LYS:HE3	20:CB:36:LYS:N	2.16	0.61
23:DB:291:G:O2'	23:DB:292:U:H5'	2.01	0.61
23:DB:2615:U:H1'	47:D0:3:GLN:HB3	1.83	0.61
37:BP:52:ARG:HB3	37:BP:60:VAL:CG1	2.22	0.61
47:D0:36:LYS:CB	47:D0:41:HIS:HA	2.31	0.61
23:DB:2785:C:H2'	23:DB:2786:U:H6	1.65	0.61
23:BB:969:G:H2'	23:BB:970:U:H6	1.64	0.61
46:DZ:55:GLY:CA	46:DZ:59:ARG:HB2	2.26	0.61
41:DT:45:ALA:HA	41:DT:48:GLN:HG2	1.83	0.61
8:AI:51:LEU:HD11	8:AI:82:ILE:HD13	1.83	0.61
33:BL:94:THR:O	33:BL:100:ILE:HG13	2.00	0.61
23:BB:138:U:H2'	23:BB:140:C:H1'	1.83	0.61
23:BB:143:C:H2'	23:BB:144:A:C8	2.36	0.61
23:BB:743:A:O3'	26:BD:136:ASN:HB2	2.00	0.61
26:BD:159:LYS:HB2	26:BD:159:LYS:HZ2	1.64	0.61
26:BD:165:MET:HE2	26:BD:166:GLY:H	1.66	0.61
27:DE:5:LEU:HA	27:DE:11:ALA:O	2.00	0.61
27:BE:59:PRO:HD2	27:BE:60:TRP:NE1	2.16	0.61
38:DQ:108:LEU:HD12	38:DQ:111:LYS:HD2	1.83	0.61
23:BB:2318:G:O2'	23:BB:2319:G:N2	2.34	0.61
23:DB:898:C:C2'	23:DB:899:A:H5''	2.31	0.61
29:DG:36:LEU:CB	29:DG:40:VAL:HG21	2.30	0.61
28:DF:133:GLU:HG2	28:DF:149:ARG:O	2.01	0.61
23:DB:1791:A:N6	23:DB:1828:G:H1'	2.16	0.61
25:DC:12:ARG:HH11	25:DC:18:VAL:HB	1.66	0.61
4:CE:111:ARG:HG2	4:CE:111:ARG:HH11	1.66	0.61
1:AA:1280:A:O4'	9:AJ:43:PRO:HG3	2.01	0.61
23:DB:1252:G:N3	38:DQ:32:ARG:HG3	2.16	0.61
1:CA:1319:A:OP1	18:CS:4:LEU:HD21	2.00	0.61
3:CD:160:LEU:HD13	3:CD:161:ALA:N	2.16	0.61
23:BB:224:U:O4	23:BB:420:C:H5'	2.00	0.61
50:B3:41:ARG:HB3	50:B3:43:LEU:CD2	2.30	0.61
1:CA:56:U:H2'	1:CA:57:G:C8	2.36	0.61
34:BM:17:ASN:C	34:BM:18:ARG:HD3	2.22	0.61
1:AA:636:U:H2'	1:AA:637:C:H6	1.66	0.61
23:DB:401:A:H2'	23:DB:402:A:C8	2.35	0.61
23:BB:1038:G:H2'	23:BB:1039:A:C8	2.36	0.61
23:DB:2455:G:H2'	23:DB:2456:C:C6	2.35	0.61
28:BF:97:GLU:O	28:BF:100:GLU:HG3	2.00	0.61
41:BT:45:ALA:O	41:BT:48:GLN:HB3	2.00	0.61
23:DB:1712:U:H3'	23:DB:1713:A:H5''	1.83	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2047:C:H2'	23:BB:2048:G:H8	1.66	0.61
1:AA:1137:C:O2'	1:AA:1138:G:H5''	2.00	0.61
23:BB:852:U:H2'	23:BB:853:C:C6	2.36	0.61
23:DB:1098:A:C3'	52:DI:3:LYS:C	2.69	0.60
52:DI:1:ALA:C	52:DI:2:LYS:HD2	2.21	0.60
23:BB:1821:A:H2'	23:BB:1822:C:C6	2.36	0.60
30:DH:1:MET:HG3	30:DH:21:VAL:CG2	2.31	0.60
31:BJ:100:VAL:HG22	31:BJ:101:ILE:N	2.15	0.60
42:DU:4:ILE:CG2	42:DU:27:VAL:HG22	2.31	0.60
33:BL:62:PRO:O	50:B3:24:LYS:HD3	2.01	0.60
38:BQ:33:VAL:HG13	38:BQ:34:ALA:N	2.09	0.60
20:AB:67:LEU:HD21	20:AB:157:PRO:HG3	1.83	0.60
31:DJ:49:ASP:HA	31:DJ:114:LEU:HD11	1.82	0.60
26:DD:73:VAL:HB	26:DD:91:THR:HB	1.83	0.60
26:BD:128:ARG:HH22	26:BD:130:GLN:CD	2.05	0.60
26:BD:34:VAL:HG11	26:BD:71:ALA:HB2	1.83	0.60
32:DK:70:ARG:HB3	32:DK:76:VAL:HA	1.82	0.60
38:DQ:88:GLU:CD	39:DR:53:PHE:HB2	2.21	0.60
29:DG:36:LEU:H	29:DG:36:LEU:HD12	1.66	0.60
12:CM:102:LYS:HZ2	12:CM:103:THR:HG23	1.66	0.60
52:BI:100:ILE:O	52:BI:139:VAL:HA	2.01	0.60
23:BB:64:A:O2'	41:BT:69:ARG:HB3	2.01	0.60
1:AA:815:A:H4'	1:AA:817:C:C4	2.36	0.60
1:CA:278:G:N2	1:CA:279:A:H62	1.97	0.60
23:BB:2895:G:H2'	23:BB:2896:C:H6	1.64	0.60
25:BC:253:GLY:C	25:BC:254:LYS:HD2	2.21	0.60
39:BR:18:GLN:NE2	39:BR:99:THR:HB	2.15	0.60
23:BB:1076:C:H4'	52:BI:94:LYS:HE3	1.81	0.60
25:DC:235:GLU:HG3	25:DC:237:ARG:HD3	1.82	0.60
23:BB:2183:A:H2'	23:BB:2184:A:C8	2.36	0.60
25:DC:174:ARG:HG3	25:DC:180:MET:HG3	1.83	0.60
20:CB:36:LYS:H	20:CB:36:LYS:HE3	1.66	0.60
23:DB:2339:C:H2'	23:DB:2340:A:C8	2.36	0.60
35:DN:78:LYS:HG2	35:DN:82:GLU:HG3	1.83	0.60
8:AI:87:MET:SD	8:AI:94:ARG:HG3	2.42	0.60
23:BB:1495:A:H2'	23:BB:1496:A:C8	2.35	0.60
22:DA:2:G:H2'	22:DA:3:C:C6	2.36	0.60
36:BO:35:ILE:HD13	36:BO:35:ILE:N	2.16	0.60
1:AA:160:A:H2'	1:AA:161:A:O4'	2.00	0.60
43:DW:39:GLN:HG2	43:DW:66:VAL:O	2.01	0.60
25:DC:117:SER:HB3	25:DC:127:ASN:ND2	2.17	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:6:A:H2'	23:DB:7:G:H8	1.65	0.60
27:DE:109:LEU:HG	27:DE:117:ARG:HD3	1.82	0.60
33:BL:56:PRO:HA	33:BL:60:ARG:NH2	2.16	0.60
23:BB:2081:U:H5''	46:BZ:23:LYS:HD2	1.82	0.60
23:DB:1025:G:H1'	23:DB:1135:C:C5'	2.26	0.60
23:DB:2621:G:O2'	26:DD:164:GLN:HG3	2.00	0.60
23:DB:2293:G:OP1	36:DO:13:ARG:NH2	2.34	0.60
38:BQ:50:ARG:HA	38:BQ:53:LYS:HE3	1.83	0.60
31:BJ:84:ILE:HG22	31:BJ:85:LYS:N	2.16	0.60
23:BB:445:C:O2'	23:BB:446:G:H5'	2.01	0.60
10:AK:88:PRO:HA	10:AK:92:ARG:HE	1.65	0.60
3:AD:122:ILE:O	3:AD:128:VAL:HG23	2.01	0.60
37:DP:5:LYS:HA	37:DP:5:LYS:NZ	2.16	0.60
23:DB:633:A:H2'	23:DB:634:C:H5'	1.82	0.60
33:DL:78:ARG:CZ	33:DL:78:ARG:HB3	2.31	0.60
27:DE:14:VAL:HG12	27:DE:15:SER:N	2.16	0.60
23:BB:2785:C:H2'	23:BB:2786:U:H6	1.65	0.60
21:CU:40:PRO:O	21:CU:44:ARG:N	2.34	0.60
35:BN:36:THR:O	35:BN:40:LYS:HB2	2.01	0.60
35:BN:9:GLN:NE2	35:BN:17:ARG:HH22	1.99	0.60
23:BB:2298:A:N6	23:BB:2319:G:H22	1.99	0.60
36:BO:87:ILE:CG1	36:BO:88:LYS:H	2.14	0.60
3:AD:19:PHE:HB2	3:AD:110:ARG:HH12	1.66	0.60
23:DB:2680:U:H5'	26:DD:194:PRO:HA	1.83	0.60
34:BM:109:PRO:HA	34:BM:112:LEU:HB2	1.83	0.60
23:BB:2270:A:H4'	43:BW:18:LYS:HB3	1.82	0.60
25:BC:92:LEU:O	25:BC:93:VAL:HB	2.02	0.60
1:CA:1324:A:H5'	1:CA:1362:A:O2'	2.01	0.60
7:AH:64:TYR:HA	7:AH:70:VAL:HG23	1.82	0.60
23:BB:2196:C:O2'	23:BB:2197:U:H5'	2.01	0.60
1:CA:642:A:H2'	1:CA:643:C:C6	2.35	0.60
1:CA:57:G:H2'	1:CA:58:C:C6	2.35	0.60
1:CA:636:U:H2'	1:CA:637:C:H6	1.66	0.60
30:DH:135:HIS:HB3	30:DH:138:VAL:HB	1.83	0.60
1:CA:77:A:H2'	1:CA:78:A:H8	1.66	0.60
23:BB:1474:U:H2'	23:BB:1475:G:H5'	1.84	0.60
23:BB:2760:C:O2'	23:BB:2761:A:H5'	2.01	0.60
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.01	0.60
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.83	0.60
23:DB:393:C:O2'	23:DB:394:C:H5'	2.01	0.60
23:DB:2354:C:H4'	43:DW:30:VAL:HG13	1.82	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2809:A:H2'	23:DB:2810:A:C8	2.35	0.60
25:DC:65:ASP:OD2	25:DC:101:ARG:HD3	2.01	0.60
43:BW:45:HIS:HA	43:BW:75:ASN:CB	2.32	0.60
23:DB:533:G:H5'	38:DQ:23:TYR:CD1	2.37	0.60
39:DR:79:ARG:NH2	39:DR:87:GLN:HG3	2.15	0.60
27:DE:143:LEU:H	27:DE:143:LEU:HD22	1.66	0.60
23:DB:144:A:C2	41:DT:3:ARG:CZ	2.85	0.60
35:DN:2:ARG:HG2	35:DN:2:ARG:NH1	2.15	0.60
41:DT:15:HIS:O	41:DT:16:VAL:HB	2.01	0.60
8:AI:51:LEU:HD23	8:AI:56:MET:CE	2.31	0.60
28:BF:135:ILE:C	28:BF:137:PHE:H	2.04	0.60
33:DL:96:LYS:HE3	33:DL:96:LYS:HA	1.81	0.60
23:DB:2650:U:H2'	23:DB:2651:C:C6	2.36	0.60
23:BB:2785:C:H2'	23:BB:2786:U:C6	2.36	0.60
26:BD:3:GLY:HA2	26:BD:49:GLN:OE1	2.01	0.60
32:DK:102:PRO:CB	32:DK:121:GLU:HG2	2.30	0.60
11:AL:66:ILE:HD13	11:AL:73:LEU:HD12	1.84	0.60
28:DF:33:ILE:HD11	28:DF:99:PHE:HB2	1.83	0.60
36:BO:68:LYS:HD3	36:BO:68:LYS:N	2.16	0.60
46:DZ:64:PHE:O	46:DZ:67:PRO:HD2	2.01	0.60
23:BB:28:A:N6	23:BB:512:G:O2'	2.33	0.60
48:B1:8:ILE:HD11	48:B1:25:ASN:HB3	1.82	0.60
11:CL:80:LEU:O	11:CL:97:VAL:HG22	2.00	0.60
39:BR:64:VAL:HB	39:BR:98:ILE:HD12	1.84	0.60
23:BB:1857:G:H2'	23:BB:1884:G:H22	1.66	0.60
23:BB:1857:G:H1'	23:BB:1885:A:N6	2.16	0.60
23:BB:903:C:H2'	23:BB:904:G:C8	2.37	0.60
23:DB:2789:C:H3'	23:DB:2893:A:H62	1.66	0.60
23:DB:374:A:N6	23:DB:400:G:H1'	2.16	0.60
1:CA:1176:A:H2'	1:CA:1177:G:O4'	2.01	0.60
19:AT:4:LYS:HD2	19:AT:5:SER:N	2.16	0.60
1:CA:26:A:H61	1:CA:558:G:H1'	1.65	0.60
7:CH:81:GLY:O	7:CH:82:LEU:HB2	2.02	0.60
23:BB:765:C:H2'	23:BB:766:U:H6	1.66	0.60
4:CE:12:GLU:HG2	4:CE:38:VAL:HG22	1.83	0.60
9:AJ:15:HIS:HA	9:AJ:18:ILE:HG22	1.82	0.60
52:BI:10:LEU:HD13	52:BI:12:VAL:HG13	1.82	0.60
37:DP:70:GLU:HG2	37:DP:71:ARG:H	1.67	0.60
42:BU:13:LEU:H	42:BU:68:ASN:ND2	2.00	0.60
34:BM:3:GLN:H	34:BM:4:PRO:CD	1.95	0.60
51:D4:36:ARG:HG2	51:D4:36:ARG:HH11	1.66	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2848:G:H2'	37:BP:96:LEU:HB2	1.83	0.60
23:BB:692:C:H5'	25:BC:42:ARG:CB	2.22	0.60
18:AS:31:ARG:HG3	18:AS:56:HIS:NE2	2.15	0.60
20:AB:150:ILE:HG13	20:AB:153:MET:HE3	1.81	0.60
23:DB:850:U:H2'	23:DB:851:C:C6	2.36	0.60
35:BN:8:ARG:CZ	35:BN:46:ARG:HD2	2.32	0.60
19:AT:68:LYS:HG3	19:AT:69:ASN:N	2.10	0.60
13:CN:79:SER:O	13:CN:83:VAL:HG23	2.02	0.60
20:AB:204:ASP:CG	20:AB:205:ALA:H	2.03	0.60
26:BD:31:ALA:HB3	26:BD:95:SER:HB3	1.84	0.60
37:DP:36:LYS:HG2	37:DP:37:LYS:H	1.67	0.60
1:CA:922:G:H2'	1:CA:923:A:H8	1.66	0.60
15:CP:4:ILE:O	15:CP:71:VAL:HG11	2.00	0.60
12:AM:21:ILE:CG2	12:AM:64:VAL:HG11	2.30	0.60
48:D1:8:ILE:HD13	48:D1:9:LYS:H	1.64	0.60
1:CA:815:A:H4'	1:CA:817:C:C4	2.36	0.60
11:CL:29:LYS:O	11:CL:80:LEU:HD12	2.01	0.60
23:BB:1439:A:C5	23:BB:1552:A:N6	2.70	0.60
23:BB:2600:A:H62	25:BC:235:GLU:HB3	1.66	0.60
14:CO:88:ARG:HG3	14:CO:88:ARG:HH11	1.66	0.60
23:BB:607:U:OP2	27:BE:98:LYS:HG2	2.02	0.60
23:DB:352:A:H3'	23:DB:353:C:H6	1.66	0.60
27:BE:106:LYS:HZ2	27:BE:106:LYS:HB2	1.66	0.60
20:AB:116:LEU:HD11	20:AB:139:GLU:HB3	1.81	0.60
20:AB:113:LEU:O	20:AB:117:GLU:HG3	2.00	0.60
13:AN:24:ALA:O	13:AN:27:LYS:HG3	2.01	0.60
12:CM:15:VAL:HG22	12:CM:40:GLU:HB2	1.83	0.60
1:CA:1129:C:H1'	1:CA:1146:A:H61	1.65	0.60
23:DB:197:A:N6	23:DB:2430:A:H2'	2.17	0.60
23:BB:1810:A:H2'	23:BB:1811:G:O4'	2.00	0.60
23:BB:2599:G:N7	25:BC:234:GLY:HA2	2.16	0.60
30:BH:116:ARG:HB3	30:BH:131:SER:OG	2.01	0.60
23:DB:1810:A:H2'	23:DB:1811:G:O4'	2.00	0.60
1:AA:1526:G:O2'	1:AA:1527:U:H5'	2.01	0.60
1:AA:620:C:C6	3:AD:131:ILE:HD13	2.37	0.60
23:BB:1939:U:O2	23:BB:1967:C:H4'	2.01	0.60
27:DE:176:ASP:HB3	27:DE:179:SER:OG	2.02	0.60
23:DB:2888:C:H2'	23:DB:2889:C:C6	2.36	0.60
25:BC:68:ARG:HD3	25:BC:103:ILE:CD1	2.31	0.60
1:AA:1320:C:H5	18:AS:36:ARG:HG2	1.65	0.60
33:BL:91:ASP:O	33:BL:92:LEU:CB	2.49	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:27:ARG:HG3	38:BQ:32:ARG:NH2	2.16	0.60
16:AQ:59:GLU:H	16:AQ:74:LEU:HD23	1.67	0.60
31:DJ:36:LEU:HA	31:DJ:51:GLY:O	2.02	0.60
38:BQ:88:GLU:HA	39:BR:53:PHE:CE2	2.35	0.60
38:BQ:92:LYS:O	38:BQ:94:LEU:N	2.34	0.60
47:B0:36:LYS:HG3	47:B0:41:HIS:HA	1.83	0.60
40:BS:32:ALA:C	40:BS:33:LEU:HD22	2.21	0.60
23:BB:2331:G:H4'	43:BW:69:GLU:CG	2.31	0.60
26:DD:107:VAL:HA	26:DD:205:PRO:O	2.01	0.60
44:DX:44:LYS:CG	44:DX:47:ARG:HB2	2.31	0.60
13:CN:27:LYS:O	13:CN:31:SER:HB3	2.00	0.60
1:AA:74:A:O2'	1:AA:75:G:H5''	2.02	0.60
45:DY:6:ILE:CG1	45:DY:35:VAL:H	2.13	0.60
4:CE:91:SER:HA	4:CE:128:GLY:O	2.02	0.60
4:CE:36:THR:HG22	4:CE:37:VAL:N	2.14	0.60
52:DI:125:THR:O	52:DI:129:GLU:HG3	2.01	0.60
8:AI:110:VAL:HG12	8:AI:111:GLU:N	2.16	0.60
1:CA:60:A:O2'	1:CA:61:G:O5'	2.19	0.60
23:DB:2800:A:H2'	23:DB:2801:G:C1'	2.32	0.60
23:DB:2679:A:O2'	23:DB:2680:U:H5'	2.02	0.60
23:DB:448:U:H3'	27:DE:79:ARG:NH2	2.15	0.60
22:BA:98:G:H1	24:BV:14:LYS:CB	2.15	0.60
5:CF:42:TRP:HE1	5:CF:61:LEU:HD23	1.67	0.60
3:AD:185:PRO:HB2	3:AD:190:LEU:HD11	1.81	0.60
1:AA:57:G:H2'	1:AA:58:C:C6	2.36	0.60
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.82	0.60
7:AH:26:MET:HB2	7:AH:27:PRO:HD2	1.84	0.60
1:CA:403:C:O2'	1:CA:404:G:H5'	2.01	0.60
23:DB:1098:A:C2'	52:DI:3:LYS:C	2.70	0.60
37:DP:48:ALA:O	37:DP:49:ILE:HG22	2.01	0.60
20:CB:16:GLY:HA2	20:CB:40:ILE:H	1.66	0.60
23:BB:1805:A:N3	25:BC:50:THR:HG23	2.16	0.60
23:DB:990:A:N6	23:DB:1186:G:H1'	2.17	0.60
27:DE:157:LEU:H	27:DE:157:LEU:HD23	1.66	0.60
33:BL:77:ILE:CG2	33:BL:78:ARG:HG3	2.32	0.60
32:BK:2:ILE:HG22	32:BK:67:LYS:NZ	2.16	0.60
23:DB:2090:A:O2'	46:DZ:49:ARG:HD2	2.02	0.60
24:BV:46:LYS:HA	24:BV:46:LYS:HE3	1.84	0.60
39:BR:74:ILE:CA	39:BR:90:ARG:HE	2.10	0.60
23:BB:2679:A:O2'	23:BB:2680:U:H5'	2.02	0.60
25:BC:30:ALA:N	25:BC:31:PRO:HD3	2.09	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:171:GLU:HG3	3:CD:182:LYS:HD2	1.83	0.60
26:DD:24:VAL:HG13	26:DD:193:VAL:HG21	1.84	0.60
23:DB:2360:G:H1'	33:DL:61:LEU:HD11	1.82	0.60
23:BB:2769:U:H2'	23:BB:2770:G:C8	2.36	0.60
31:DJ:25:LEU:CD1	31:DJ:63:ALA:H	2.14	0.60
33:DL:38:GLN:NE2	33:DL:39:LYS:HE2	2.16	0.60
23:DB:1082:U:O4	23:DB:1086:A:C2	2.55	0.60
23:DB:2887:A:C8	47:D0:27:LEU:HD21	2.36	0.60
23:BB:328:U:H4'	42:BU:65:GLN:NE2	2.16	0.60
2:AC:58:ARG:CG	2:AC:63:ILE:HG22	2.31	0.60
23:DB:1791:A:C2	23:DB:1829:A:H4'	2.36	0.60
4:CE:113:VAL:HG23	4:CE:114:LEU:H	1.66	0.60
23:DB:1439:A:C5	23:DB:1552:A:N6	2.70	0.60
35:DN:56:LYS:CG	35:DN:57:THR:H	2.14	0.60
1:AA:859:G:H2'	1:AA:860:A:H8	1.65	0.60
23:DB:1203:U:H3'	23:DB:1204:A:C5'	2.31	0.60
1:CA:994:A:C5	1:CA:1216:A:H4'	2.36	0.60
10:AK:52:ARG:HD2	10:AK:53:GLY:H	1.67	0.60
42:DU:78:LYS:HD2	42:DU:96:LYS:HG3	1.83	0.60
23:BB:2642:G:O2'	23:BB:2643:G:H5'	2.01	0.60
32:DK:9:ASN:O	32:DK:10:VAL:HG13	2.01	0.60
41:DT:88:LYS:HG3	41:DT:89:GLU:OE1	2.02	0.60
48:B1:5:ARG:HB3	48:B1:5:ARG:HH11	1.65	0.60
23:BB:926:G:H2'	23:BB:927:A:H8	1.66	0.60
22:DA:35:C:O2'	22:DA:36:C:H5'	2.02	0.60
23:BB:2698:U:H2'	23:BB:2699:C:C6	2.37	0.60
42:BU:85:ARG:N	42:BU:85:ARG:HD3	2.17	0.60
3:AD:150:LYS:HB2	3:AD:150:LYS:NZ	2.17	0.60
23:BB:1878:G:H2'	23:BB:1879:C:C6	2.37	0.60
37:BP:50:ARG:HH11	37:BP:50:ARG:CB	2.09	0.60
25:DC:92:LEU:O	25:DC:93:VAL:HB	2.01	0.60
33:BL:60:ARG:HD2	50:B3:7:ARG:HE	1.66	0.60
13:AN:15:LEU:HD12	13:AN:16:ALA:H	1.66	0.60
41:DT:61:LEU:HB2	41:DT:82:LYS:HB3	1.83	0.60
25:BC:58:LYS:O	25:BC:59:GLN:HG3	2.02	0.60
5:CF:36:ILE:HG12	5:CF:64:VAL:HG22	1.83	0.60
23:BB:997:G:H5'	38:BQ:91:ARG:HG3	1.83	0.60
5:AF:46:GLN:HA	5:AF:56:LYS:HG3	1.81	0.60
40:BS:29:VAL:HG22	40:BS:71:VAL:HG23	1.83	0.60
23:BB:910:A:N7	34:BM:16:ARG:HB2	2.17	0.60
26:DD:129:THR:HA	26:DD:140:HIS:CE1	2.36	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2650:U:H2'	23:BB:2651:C:C6	2.35	0.60
13:CN:30:ILE:CG2	13:CN:41:TRP:HB3	2.31	0.60
34:DM:29:GLY:N	34:DM:102:LEU:HD12	2.12	0.60
5:AF:61:LEU:HD12	5:AF:63:ASN:OD1	2.02	0.60
35:DN:54:LEU:O	35:DN:54:LEU:HD23	2.02	0.60
23:BB:26:G:H1'	23:BB:514:A:N6	2.17	0.60
1:AA:812:G:HO2'	1:AA:813:U:H6	1.49	0.60
1:AA:812:G:O2'	1:AA:813:U:H6	1.85	0.60
23:BB:1791:A:N6	23:BB:1828:G:H1'	2.16	0.60
2:CC:11:LEU:HD22	2:CC:17:TRP:NE1	2.17	0.60
23:BB:418:C:H2'	23:BB:419:U:C6	2.36	0.60
1:CA:1124:G:H5'	9:CJ:37:ARG:NH2	2.17	0.60
23:DB:1857:G:H2'	23:DB:1884:G:H22	1.66	0.60
28:BF:174:PHE:N	28:BF:175:PRO:CD	2.63	0.60
1:CA:590:U:H2'	1:CA:591:U:H6	1.67	0.60
23:BB:433:C:H2'	23:BB:434:U:C6	2.37	0.60
23:DB:1878:G:H2'	23:DB:1879:C:C6	2.37	0.60
23:BB:176:A:O2'	23:BB:177:G:H5'	2.01	0.60
33:DL:91:ASP:O	33:DL:93:ASN:N	2.33	0.60
1:CA:1256:A:N1	1:CA:1278:G:H1'	2.16	0.60
23:BB:2671:G:H2'	23:BB:2672:U:C6	2.37	0.60
4:CE:142:GLY:HA2	4:CE:145:ASN:ND2	2.16	0.60
23:BB:836:G:H2'	23:BB:837:C:C6	2.37	0.60
23:DB:1915:U:H2'	23:DB:1916:A:O4'	2.02	0.60
2:CC:56:ILE:N	2:CC:56:ILE:HD12	2.16	0.60
44:DX:30:MET:H	44:DX:30:MET:HE2	1.67	0.60
23:DB:1939:U:O2	23:DB:1967:C:H4'	2.01	0.60
44:BX:44:LYS:O	44:BX:48:ARG:HD2	2.02	0.60
16:AQ:60:ILE:N	16:AQ:60:ILE:HD13	2.16	0.60
23:DB:2868:A:H2'	23:DB:2869:G:C8	2.37	0.60
42:BU:12:VAL:HA	42:BU:68:ASN:ND2	2.12	0.60
23:BB:2365:G:H4'	43:BW:65:LYS:HZ2	1.67	0.60
20:AB:46:VAL:CG1	20:AB:47:PRO:HD3	2.25	0.60
30:BH:6:LEU:HA	30:BH:15:LEU:HA	1.83	0.60
33:BL:126:ARG:O	33:BL:127:VAL:HG13	2.02	0.60
46:DZ:30:HIS:O	46:DZ:48:GLN:HA	2.01	0.60
46:DZ:1:MET:HA	46:DZ:9:TYR:CD1	2.37	0.60
26:BD:153:GLY:O	26:BD:154:LYS:HB2	2.01	0.60
41:DT:24:MET:HE1	41:DT:30:ILE:HG13	1.83	0.60
8:AI:49:GLN:HE21	8:AI:79:ARG:HD2	1.67	0.60
18:CS:27:LYS:NZ	18:CS:27:LYS:HB3	2.17	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1320:C:OP2	18:CS:2:ARG:HB3	2.02	0.60
34:DM:41:LEU:HB3	34:DM:93:VAL:HB	1.83	0.60
23:BB:2050:C:H4'	26:BD:143:PRO:HG2	1.84	0.60
13:CN:30:ILE:HB	13:CN:44:VAL:HB	1.83	0.60
36:BO:16:ARG:O	36:BO:20:GLU:HB2	2.01	0.60
38:DQ:98:ALA:HA	38:DQ:105:PHE:CD1	2.36	0.60
23:DB:717:C:C3'	23:DB:718:A:H5''	2.30	0.60
4:CE:158:LYS:CB	7:CH:63:LYS:HD3	2.30	0.60
1:AA:590:U:H2'	1:AA:591:U:H6	1.66	0.60
23:BB:27:G:H1'	23:BB:513:A:N6	2.17	0.60
4:AE:109:ALA:HB3	4:AE:135:VAL:HG23	1.82	0.60
25:DC:257:ARG:HH11	25:DC:257:ARG:HG2	1.66	0.60
4:AE:85:LYS:HE3	4:AE:94:PHE:HB2	1.84	0.60
40:BS:24:ILE:HD13	40:BS:36:LEU:HD21	1.83	0.60
1:AA:56:U:H2'	1:AA:57:G:C8	2.36	0.60
1:CA:1118:U:H2'	1:CA:1119:C:H6	1.67	0.60
23:DB:1164:C:H2'	23:DB:1165:A:H8	1.65	0.60
17:AR:46:THR:HG23	17:AR:51:GLN:HB2	1.81	0.60
1:AA:51:A:O2'	1:AA:52:C:OP2	2.18	0.60
23:BB:1729:U:C5	23:BB:1730:C:H1'	2.37	0.60
37:DP:106:ALA:O	37:DP:108:ARG:HD2	2.01	0.60
23:BB:575:A:O2'	23:BB:576:U:H5'	2.02	0.60
2:CC:110:LEU:HD13	2:CC:143:LEU:HD23	1.83	0.60
52:DI:63:ASP:O	52:DI:64:ARG:HB2	2.00	0.60
1:AA:26:A:H61	1:AA:558:G:H1'	1.65	0.60
1:CA:135:C:O2	15:CP:1:MET:HB2	2.02	0.60
37:DP:47:ILE:CG1	37:DP:63:ILE:HG23	2.26	0.60
37:DP:47:ILE:CG2	37:DP:63:ILE:HA	2.28	0.60
23:DB:2386:A:H2'	23:DB:2387:U:C6	2.37	0.60
26:DD:37:VAL:HG13	26:DD:42:ASN:CB	2.31	0.60
31:BJ:90:GLU:O	31:BJ:93:ILE:HG22	2.02	0.60
23:DB:992:C:H4'	38:DQ:46:TYR:OH	2.01	0.60
27:DE:105:LEU:H	27:DE:105:LEU:HD22	1.67	0.60
33:BL:83:ALA:N	33:BL:86:GLU:HG3	2.15	0.60
23:BB:2674:G:H4'	32:BK:30:ARG:CG	2.31	0.60
23:DB:138:U:H2'	23:DB:140:C:O4'	2.01	0.60
33:BL:39:LYS:HB2	33:BL:46:VAL:HA	1.83	0.60
8:AI:18:VAL:HG22	8:AI:64:ILE:HG23	1.84	0.60
25:BC:32:LEU:HD13	25:BC:61:TYR:HE1	1.67	0.60
31:DJ:85:LYS:HA	31:DJ:85:LYS:HE2	1.83	0.60
51:B4:24:ARG:HH12	51:B4:36:ARG:HB2	1.66	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CS:18:VAL:HG22	18:CS:42:ASN:ND2	2.17	0.60
23:BB:1655:A:C2	23:BB:2049:G:H5''	2.36	0.60
26:BD:5:VAL:HG11	26:BD:28:GLU:CA	2.31	0.60
4:CE:19:ARG:HG2	4:CE:20:VAL:N	2.15	0.60
5:AF:37:HIS:CE1	5:AF:65:GLU:HB2	2.36	0.60
1:CA:1513:A:H2'	1:CA:1514:G:C8	2.37	0.60
1:AA:34:C:H2'	1:AA:35:G:H8	1.67	0.60
23:BB:1082:U:O4	23:BB:1086:A:C2	2.55	0.60
2:AC:45:GLU:C	2:AC:46:LEU:HD12	2.22	0.60
2:AC:5:HIS:CD2	2:AC:8:GLY:H	2.19	0.60
7:CH:75:GLN:NE2	7:CH:76:ARG:H	1.99	0.60
1:AA:865:A:H2'	1:AA:866:C:H6	1.67	0.60
1:AA:987:G:H2'	1:AA:988:G:C8	2.35	0.60
24:DV:77:VAL:HG13	24:DV:89:ILE:HD11	1.82	0.60
23:DB:2698:U:H2'	23:DB:2699:C:C6	2.36	0.60
20:AB:162:VAL:HG13	20:AB:184:ALA:HB2	1.83	0.60
1:CA:160:A:H2'	1:CA:161:A:O4'	2.00	0.60
27:DE:76:PRO:HA	27:DE:82:GLY:O	2.02	0.60
20:CB:187:ASP:HB3	20:CB:201:GLY:O	2.02	0.60
12:AM:103:THR:HG22	12:AM:104:ASN:H	1.67	0.60
29:DG:138:GLN:NE2	29:DG:142:GLN:HG3	2.17	0.60
33:DL:33:ARG:HB3	39:DR:85:LYS:HZ1	1.65	0.60
30:BH:21:VAL:HG22	30:BH:22:LYS:N	2.13	0.60
23:BB:634:C:H2'	23:BB:635:C:C6	2.37	0.60
23:BB:651:G:H4'	50:B3:17:GLY:HA3	1.84	0.60
33:BL:120:VAL:HG22	33:BL:122:VAL:HG13	1.83	0.60
24:BV:26:PHE:HE2	24:BV:44:HIS:HA	1.66	0.60
23:BB:1454:C:C5'	35:BN:63:ARG:HH21	2.06	0.60
42:BU:42:LYS:HD3	42:BU:60:LYS:HB3	1.83	0.60
22:BA:75:G:H5''	24:BV:12:GLN:OE1	2.01	0.60
45:DY:18:LYS:O	45:DY:22:THR:HG23	2.02	0.60
28:BF:64:PRO:HA	28:BF:88:VAL:CG2	2.32	0.60
38:BQ:94:LEU:HD22	38:BQ:95:ALA:N	2.16	0.60
10:AK:86:LYS:HD2	10:AK:114:PRO:HD3	1.84	0.60
49:B2:34:ARG:HE	49:B2:42:LEU:CD1	2.14	0.60
41:BT:24:MET:CE	41:BT:29:THR:H	2.15	0.60
12:CM:52:ILE:HD12	12:CM:55:LEU:HD12	1.83	0.60
13:CN:62:ARG:HH21	13:CN:69:PRO:HG3	1.65	0.60
52:DI:11:GLN:HA	52:DI:55:PRO:HA	1.83	0.60
1:AA:238:A:C2'	1:AA:239:U:H5''	2.31	0.60
1:CA:254:G:OP1	16:CQ:68:LYS:O	2.20	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2811:G:C5'	26:BD:62:LYS:HD2	2.31	0.60
23:DB:1484:U:H2'	23:DB:1485:U:C6	2.37	0.60
23:BB:1557:C:H3'	23:BB:1558:C:H5''	1.84	0.60
23:DB:1429:G:H2'	23:DB:1430:G:C8	2.37	0.60
11:AL:85:ARG:HA	11:AL:93:ARG:HA	1.84	0.60
23:DB:2010:G:H5''	40:DS:42:LYS:CB	2.31	0.60
9:CJ:42:LEU:HB3	9:CJ:43:PRO:HD2	1.84	0.60
1:CA:599:C:H5''	7:CH:86:LYS:O	2.02	0.60
7:CH:86:LYS:HB3	7:CH:90:GLU:O	2.02	0.60
23:DB:2241:A:H2'	23:DB:2242:G:C8	2.36	0.60
23:BB:864:G:O2'	23:BB:865:C:H5'	2.02	0.60
9:CJ:22:THR:O	9:CJ:26:VAL:HG23	2.01	0.60
22:BA:39:A:O2'	22:BA:40:U:H5'	2.01	0.60
44:DX:58:ASN:ND2	44:DX:63:ALA:HB3	2.16	0.60
35:BN:107:ASN:OD1	40:BS:40:ASN:HB3	2.01	0.60
49:B2:17:GLY:HA2	49:B2:21:ARG:NH1	2.17	0.60
7:AH:93:LYS:H	7:AH:93:LYS:HZ2	1.49	0.60
23:DB:2671:G:H2'	23:DB:2672:U:C6	2.36	0.60
1:CA:1038:C:H2'	1:CA:1039:G:C8	2.36	0.60
1:AA:1458:G:H5'	19:AT:26:MET:HB2	1.84	0.60
23:DB:858:G:H21	23:DB:2268:A:H3'	1.67	0.59
25:BC:143:VAL:O	25:BC:152:GLN:HB2	2.01	0.59
25:DC:143:VAL:HG11	25:DC:173:LEU:HD11	1.84	0.59
23:DB:2617:U:H2'	23:DB:2618:G:H5'	1.84	0.59
23:DB:322:A:H1'	23:DB:339:U:O2	2.01	0.59
27:DE:187:VAL:HG23	27:DE:188:MET:N	2.17	0.59
25:BC:61:TYR:CD2	25:BC:84:PRO:HD2	2.37	0.59
27:BE:145:ASP:C	27:BE:147:LEU:H	2.04	0.59
3:CD:101:VAL:HG13	3:CD:106:PHE:CD2	2.34	0.59
30:DH:124:THR:HG23	30:DH:128:HIS:NE2	2.17	0.59
33:BL:90:VAL:HG11	33:BL:121:THR:N	2.11	0.59
26:DD:125:TRP:HB2	26:DD:160:LYS:HD3	1.84	0.59
26:BD:35:THR:HG22	26:BD:46:ARG:NH2	2.16	0.59
26:BD:49:GLN:O	26:BD:78:GLY:HA2	2.00	0.59
13:CN:26:LEU:HD12	13:CN:29:ILE:HD12	1.83	0.59
32:DK:11:ALA:HB1	32:DK:100:PHE:O	2.01	0.59
19:CT:66:ILE:O	19:CT:70:LYS:HD3	2.02	0.59
1:CA:1021:A:H2'	1:CA:1022:A:O4'	2.02	0.59
3:AD:194:ILE:HD13	3:AD:195:ASN:H	1.67	0.59
49:D2:35:ARG:NH2	49:D2:44:VAL:HG22	2.17	0.59
7:CH:76:ARG:HE	7:CH:125:ILE:HG23	1.67	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1035:A:H2'	1:AA:1036:A:C8	2.36	0.59
4:CE:28:ARG:HH22	4:CE:30:PHE:HB3	1.67	0.59
23:DB:1387:A:H5'	23:DB:1469:A:H1'	1.84	0.59
7:CH:31:LEU:O	7:CH:35:ILE:HG13	2.01	0.59
3:AD:58:GLN:HA	3:AD:61:ARG:HB2	1.84	0.59
41:BT:64:LYS:NZ	41:BT:79:ASP:HB2	2.17	0.59
23:DB:2769:U:H2'	23:DB:2770:G:C8	2.36	0.59
23:BB:956:G:N2	23:BB:959:A:H3'	2.16	0.59
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.67	0.59
23:BB:1295:C:H2'	23:BB:1296:G:C8	2.36	0.59
1:CA:77:A:H2'	1:CA:78:A:C8	2.36	0.59
16:AQ:24:ILE:HB	16:AQ:41:THR:HB	1.82	0.59
23:BB:624:C:OP1	50:B3:61:LEU:HB3	2.01	0.59
1:CA:22:G:H4'	1:CA:885:G:C8	2.37	0.59
23:BB:401:A:H2'	23:BB:402:A:C8	2.37	0.59
20:AB:118:THR:O	20:AB:121:GLN:HB3	2.02	0.59
1:CA:742:G:O2'	1:CA:743:A:H5'	2.02	0.59
4:CE:152:VAL:HG21	7:CH:98:LEU:HB3	1.82	0.59
1:AA:320:A:H2'	1:AA:321:A:C8	2.37	0.59
23:DB:1474:U:H2'	23:DB:1475:G:H5'	1.83	0.59
23:BB:1229:C:H2'	23:BB:1230:A:H8	1.65	0.59
1:CA:320:A:H2'	1:CA:321:A:C8	2.37	0.59
23:DB:493:G:H2'	23:DB:494:G:O4'	2.01	0.59
37:DP:18:SER:HB2	37:DP:87:ARG:CZ	2.31	0.59
37:DP:25:VAL:HG22	37:DP:89:GLY:N	2.15	0.59
30:BH:125:THR:CB	30:BH:146:VAL:HB	2.31	0.59
37:BP:30:TRP:HB2	37:BP:82:SER:OG	2.01	0.59
43:DW:46:ALA:HB2	43:DW:75:ASN:O	2.02	0.59
25:BC:128:THR:HG22	25:BC:188:ARG:HB2	1.84	0.59
30:DH:2:GLN:HA	30:DH:21:VAL:HG13	1.82	0.59
35:DN:96:ARG:O	35:DN:113:ILE:HA	2.01	0.59
46:BZ:5:ILE:HD13	46:BZ:47:LYS:HB3	1.82	0.59
34:BM:102:LEU:HB3	34:BM:104:GLU:OE2	2.02	0.59
23:DB:1799:G:OP1	25:DC:255:LYS:HG2	2.02	0.59
36:DO:50:ALA:HB1	36:DO:78:VAL:HG13	1.82	0.59
8:AI:56:MET:HA	8:AI:59:LYS:HZ2	1.67	0.59
23:DB:969:G:H2'	23:DB:970:U:H6	1.66	0.59
28:BF:132:ARG:CZ	28:BF:147:ARG:HE	2.15	0.59
13:CN:51:PRO:HB2	13:CN:54:SER:HB3	1.84	0.59
23:BB:1285:A:H2'	23:BB:1286:A:H5''	1.83	0.59
1:AA:1103:C:H5''	20:AB:96:LEU:HD12	1.82	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1095:U:H2'	1:CA:1096:C:C6	2.37	0.59
35:BN:96:ARG:NH2	35:BN:118:ARG:HB3	2.17	0.59
48:D1:13:SER:HB3	48:D1:49:LYS:NZ	2.17	0.59
25:BC:77:VAL:HG23	25:BC:115:ILE:CD1	2.31	0.59
23:BB:28:A:N6	23:BB:512:G:H1'	2.17	0.59
23:BB:1550:C:H2'	23:BB:1551:A:H8	1.67	0.59
40:DS:21:ALA:HB1	40:DS:74:ILE:CD1	2.32	0.59
24:BV:14:LYS:NZ	24:BV:18:ARG:HD2	2.18	0.59
31:BJ:28:LEU:HG	31:BJ:32:LEU:HD13	1.84	0.59
23:BB:2859:G:H2'	23:BB:2860:A:C8	2.36	0.59
6:CG:2:ARG:HH11	6:CG:2:ARG:HB3	1.66	0.59
23:BB:2226:C:H2'	23:BB:2227:A:O4'	2.02	0.59
1:AA:1137:C:H1'	1:AA:1138:G:N2	2.16	0.59
40:DS:85:ILE:HD11	40:DS:93:ALA:HB1	1.82	0.59
43:DW:48:ALA:HA	43:DW:54:ARG:H	1.67	0.59
29:DG:19:ASN:HB3	29:DG:22:VAL:HB	1.84	0.59
23:DB:1874:C:H2'	23:DB:1875:G:O4'	2.01	0.59
23:DB:1729:U:C5	23:DB:1730:C:H1'	2.37	0.59
23:DB:575:A:O2'	23:DB:576:U:H5'	2.02	0.59
23:BB:660:C:H2'	23:BB:661:A:H8	1.68	0.59
23:DB:2785:C:H2'	23:DB:2786:U:C6	2.37	0.59
23:DB:2900:A:H2'	23:DB:2901:C:H6	1.66	0.59
27:DE:109:LEU:HD21	27:DE:113:VAL:O	2.02	0.59
23:DB:136:G:N2	41:DT:3:ARG:HG2	2.17	0.59
40:DS:8:ARG:O	40:DS:9:HIS:HB2	2.02	0.59
28:BF:132:ARG:HD3	28:BF:133:GLU:HB2	1.84	0.59
31:BJ:43:GLU:HB3	38:BQ:99:VAL:HG12	1.84	0.59
20:CB:96:LEU:O	20:CB:99:MET:HG3	2.02	0.59
27:BE:149:ILE:HG13	27:BE:186:VAL:HG13	1.84	0.59
23:BB:143:C:H3'	23:BB:144:A:C8	2.37	0.59
23:DB:1814:G:H4'	25:DC:51:ARG:HG2	1.83	0.59
30:DH:115:VAL:HB	30:DH:132:PHE:CD1	2.37	0.59
25:DC:10:PRO:HD2	25:DC:202:ARG:NH2	2.16	0.59
23:DB:1695:G:O2'	25:DC:15:VAL:HG23	2.02	0.59
36:DO:100:HIS:HA	36:DO:104:GLN:HE21	1.67	0.59
23:DB:585:G:H2'	23:DB:1251:C:H42	1.66	0.59
29:BG:157:LYS:HG3	29:BG:159:LYS:NZ	2.16	0.59
6:CG:12:LEU:HD13	6:CG:13:PRO:CD	2.31	0.59
23:BB:2539:C:OP1	51:B4:4:ARG:HD2	2.02	0.59
51:B4:4:ARG:HG2	51:B4:4:ARG:O	2.02	0.59
1:CA:202:G:H2'	1:CA:203:G:C8	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:17:LYS:HE2	29:DG:24:THR:N	2.18	0.59
12:CM:10:ASP:HA	12:CM:44:ILE:HD11	1.83	0.59
23:BB:672:C:O2'	23:BB:673:C:H5'	2.03	0.59
23:DB:2107:G:H2'	23:DB:2108:A:H8	1.67	0.59
23:BB:2273:A:H2'	23:BB:2274:A:C8	2.37	0.59
23:DB:2789:C:H2'	23:DB:2893:A:N7	2.17	0.59
4:CE:96:GLN:HG3	4:CE:97:PRO:HD2	1.84	0.59
30:DH:40:THR:HB	46:DZ:58:ASP:OD2	2.03	0.59
42:BU:48:VAL:HG12	42:BU:50:ALA:HB3	1.84	0.59
23:BB:2339:C:H2'	23:BB:2340:A:C8	2.37	0.59
32:DK:34:GLY:O	32:DK:37:ASP:HB2	2.03	0.59
10:CK:53:GLY:O	10:CK:56:LYS:HB3	2.02	0.59
8:AI:53:LEU:O	8:AI:53:LEU:HD13	2.02	0.59
27:DE:46:GLN:HE22	27:DE:86:ALA:HB3	1.68	0.59
23:BB:2868:A:H2'	23:BB:2869:G:C8	2.37	0.59
30:DH:1:MET:O	30:DH:21:VAL:HG22	2.01	0.59
35:DN:32:GLU:HG3	35:DN:33:ILE:N	2.17	0.59
36:BO:15:ARG:HH12	36:BO:17:LYS:HD3	1.67	0.59
23:DB:534:U:H4'	38:DQ:45:ALA:HB2	1.83	0.59
23:DB:533:G:H21	38:DQ:40:LYS:HD2	1.67	0.59
23:BB:634:C:H2'	23:BB:635:C:H6	1.67	0.59
33:BL:117:THR:HG21	33:BL:120:VAL:HB	1.83	0.59
23:BB:2266:A:H4'	23:BB:2267:A:C8	2.37	0.59
32:BK:23:LYS:HG3	32:BK:24:VAL:N	2.17	0.59
39:BR:90:ARG:NH2	39:BR:92:TRP:HB3	2.17	0.59
34:DM:71:LYS:HB2	34:DM:72:PRO:CD	2.32	0.59
1:AA:1060:U:H2'	1:AA:1061:G:C8	2.37	0.59
1:AA:1060:U:C5'	9:AJ:53:ILE:HG22	2.32	0.59
25:DC:225:ASN:O	25:DC:227:VAL:N	2.35	0.59
23:BB:784:G:O2'	23:BB:785:G:H5''	2.00	0.59
23:DB:1285:A:H2'	23:DB:1286:A:H5''	1.83	0.59
1:CA:1329:A:H5''	12:CM:25:GLY:N	2.16	0.59
23:BB:1054:A:H2'	23:BB:1055:G:H8	1.66	0.59
23:DB:899:A:H2'	23:DB:900:A:O4'	2.02	0.59
32:DK:41:ILE:HG13	32:DK:42:THR:N	2.17	0.59
3:AD:94:GLU:HA	3:AD:103:ARG:HH22	1.66	0.59
23:DB:544:C:H2'	23:DB:545:U:C5	2.37	0.59
23:BB:2899:A:H2'	23:BB:2900:A:C8	2.37	0.59
23:DB:1469:A:H2'	23:DB:1470:A:H8	1.63	0.59
2:CC:129:PHE:HA	2:CC:132:ALA:HB3	1.84	0.59
23:BB:182:A:H2'	23:BB:183:C:C6	2.37	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:92:TRP:O	39:DR:93:PHE:HB2	2.01	0.59
29:BG:85:LYS:HB2	29:BG:164:ALA:HB2	1.83	0.59
1:CA:203:G:N2	1:CA:205:A:H61	2.01	0.59
12:CM:78:ARG:HG3	28:DF:111:ARG:HG2	1.83	0.59
9:CJ:36:VAL:HG13	9:CJ:76:ILE:HD11	1.83	0.59
23:DB:235:U:H2'	23:DB:236:C:H6	1.67	0.59
44:BX:49:ASP:HB3	44:BX:52:ARG:NH2	2.17	0.59
23:BB:2852:G:H2'	23:BB:2853:C:H6	1.67	0.59
9:AJ:26:VAL:O	9:AJ:30:LYS:HB3	2.02	0.59
3:CD:115:GLN:HE22	3:CD:153:ARG:HH22	1.50	0.59
23:DB:1295:C:H2'	23:DB:1296:G:C8	2.36	0.59
23:BB:354:A:H2'	23:BB:355:U:H5''	1.83	0.59
1:CA:621:A:H2'	1:CA:622:A:C8	2.37	0.59
19:AT:43:LYS:HG2	19:AT:44:ALA:N	2.17	0.59
1:AA:532:A:H62	2:AC:191:THR:CG2	2.16	0.59
1:CA:214:C:H2'	1:CA:215:C:C6	2.38	0.59
32:DK:8:LEU:HD12	32:DK:8:LEU:N	2.17	0.59
23:BB:503:A:C4'	23:BB:504:A:H5'	2.31	0.59
23:DB:1676:A:H2'	23:DB:1677:A:O4'	2.02	0.59
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.84	0.59
23:DB:1097:U:H2'	23:DB:1098:A:O4'	2.03	0.59
23:DB:1099:G:C8	52:DI:3:LYS:CA	2.75	0.59
43:DW:44:PHE:HB3	43:DW:77:LYS:CB	2.32	0.59
23:BB:1818:U:OP1	25:BC:155:ARG:HA	2.03	0.59
31:BJ:136:GLN:N	31:BJ:137:PRO:CD	2.66	0.59
34:BM:33:LEU:HD12	34:BM:101:VAL:HG11	1.83	0.59
3:AD:7:LYS:HA	3:AD:7:LYS:HE3	1.85	0.59
23:BB:478:A:H5''	23:BB:479:A:OP2	2.02	0.59
23:BB:1132:U:H5''	31:BJ:85:LYS:HZ3	1.67	0.59
1:AA:131:A:H2'	1:AA:132:C:H6	1.68	0.59
23:DB:2642:G:O2'	23:DB:2643:G:H5'	2.01	0.59
44:BX:23:ARG:HG3	44:BX:28:LEU:HG	1.84	0.59
26:DD:3:GLY:C	26:DD:4:LEU:HD13	2.23	0.59
23:BB:2821:A:OP2	35:BN:3:HIS:NE2	2.36	0.59
40:DS:25:ARG:HD2	40:DS:26:GLY:H	1.65	0.59
26:BD:38:LYS:H	26:BD:38:LYS:CE	2.15	0.59
45:DY:6:ILE:HG13	45:DY:35:VAL:H	1.66	0.59
21:AU:36:PHE:CB	21:AU:40:PRO:HD3	2.31	0.59
1:AA:1101:A:O2'	1:AA:1102:A:OP2	2.21	0.59
20:AB:18:GLN:O	20:AB:37:VAL:HG23	2.02	0.59
7:AH:9:MET:HE1	7:AH:32:LYS:O	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:53:ALA:HB1	28:DF:64:PRO:HG2	1.84	0.59
36:BO:87:ILE:HG13	36:BO:88:LYS:N	2.16	0.59
23:BB:2800:A:H2'	23:BB:2801:G:C1'	2.32	0.59
16:CQ:10:ARG:NH2	16:CQ:55:GLY:H	2.00	0.59
29:BG:5:LYS:HB3	29:BG:68:ARG:NH2	2.17	0.59
7:CH:76:ARG:HA	7:CH:126:CYS:HB3	1.85	0.59
23:DB:2329:U:H2'	23:DB:2330:G:C8	2.37	0.59
25:BC:242:HIS:N	25:BC:243:PRO:CD	2.66	0.59
15:AP:4:ILE:O	15:AP:71:VAL:HG11	2.02	0.59
23:BB:718:A:H3'	23:BB:719:C:H6	1.68	0.59
29:DG:148:ARG:HA	29:DG:161:VAL:HG13	1.85	0.59
13:AN:20:PHE:HA	13:AN:24:ALA:HB2	1.84	0.59
25:DC:138:SER:HA	25:DC:162:GLN:HG3	1.85	0.59
25:DC:136:VAL:CA	25:DC:165:ALA:HA	2.33	0.59
1:CA:1082:A:O2'	1:CA:1083:U:H5'	2.02	0.59
38:DQ:54:ARG:O	38:DQ:58:GLN:HG2	2.02	0.59
1:AA:1055:A:H4'	2:AC:160:GLU:CG	2.32	0.59
47:B0:39:ARG:HG2	47:B0:39:ARG:O	2.03	0.59
1:CA:1137:C:O2'	1:CA:1138:G:H5''	2.03	0.59
23:DB:1945:G:H2'	23:DB:1946:U:C6	2.38	0.59
16:CQ:14:ASP:OD2	16:CQ:53:GLY:HA2	2.01	0.59
37:DP:90:ALA:HB3	37:DP:112:ARG:H	1.67	0.59
33:BL:13:LYS:O	33:BL:14:LYS:HB2	2.01	0.59
23:DB:2899:A:H2'	23:DB:2900:A:C8	2.37	0.59
31:DJ:15:TRP:CD2	31:DJ:138:GLN:HB2	2.38	0.59
31:BJ:55:ILE:HA	31:BJ:122:LEU:O	2.02	0.59
27:DE:116:ASP:CB	27:DE:185:LYS:HA	2.30	0.59
36:DO:74:VAL:O	36:DO:78:VAL:HG23	2.02	0.59
18:CS:38:THR:HG22	18:CS:39:ILE:H	1.66	0.59
35:BN:45:ARG:HB2	35:BN:49:GLU:OE2	2.03	0.59
38:BQ:88:GLU:HA	39:BR:53:PHE:CZ	2.36	0.59
23:BB:1162:G:H4'	39:BR:23:GLU:HG2	1.83	0.59
26:DD:31:ALA:CB	26:DD:95:SER:HB2	2.32	0.59
26:DD:52:THR:OG1	26:DD:75:ALA:HB1	2.02	0.59
23:BB:1676:A:H2'	23:BB:1677:A:O4'	2.02	0.59
10:CK:82:GLU:HB3	10:CK:108:ASN:ND2	2.16	0.59
24:DV:9:ARG:HH21	24:DV:20:LEU:HD11	1.68	0.59
26:BD:4:LEU:O	26:BD:5:VAL:HG13	2.02	0.59
1:CA:1308:U:H2'	1:CA:1309:G:C8	2.38	0.59
1:CA:1251:A:O2'	1:CA:1252:A:H5'	2.02	0.59
20:CB:116:LEU:O	20:CB:119:GLN:HB2	2.02	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CP:4:ILE:HD13	15:CP:57:ILE:HG12	1.85	0.59
15:CP:57:ILE:HD13	15:CP:57:ILE:C	2.22	0.59
13:CN:96:LYS:HG2	13:CN:97:LYS:N	2.14	0.59
2:AC:13:ILE:HG22	2:AC:14:VAL:HG13	1.83	0.59
28:DF:135:ILE:O	28:DF:137:PHE:N	2.36	0.59
17:CR:55:ALA:O	17:CR:59:LYS:HG3	2.03	0.59
34:DM:131:VAL:HG22	34:DM:133:LYS:H	1.68	0.59
16:CQ:16:MET:CB	16:CQ:19:SER:HB2	2.33	0.59
4:AE:37:VAL:HG11	4:AE:113:VAL:HG12	1.83	0.59
23:BB:79:C:O2'	23:BB:346:A:H1'	2.02	0.59
23:DB:1550:C:H2'	23:DB:1551:A:H8	1.67	0.59
22:BA:21:G:O2'	22:BA:22:U:H5'	2.02	0.59
23:BB:1412:U:H2'	23:BB:1413:A:C8	2.38	0.59
37:BP:77:SER:H	37:BP:78:PRO:HD2	1.68	0.59
23:DB:2324:U:H3'	23:DB:2325:G:C5'	2.32	0.59
1:CA:1107:C:H4'	2:CC:172:VAL:HG23	1.83	0.59
23:DB:2852:G:H2'	23:DB:2853:C:H6	1.67	0.59
23:DB:1447:C:H2'	23:DB:1448:G:C8	2.37	0.59
22:BA:29:A:H3'	22:BA:30:C:H6	1.67	0.59
28:BF:115:GLY:HA3	28:BF:177:ARG:HB2	1.84	0.59
1:CA:1030:U:H5''	1:CA:1031:C:H5	1.68	0.59
10:CK:53:GLY:HA2	10:CK:56:LYS:HE3	1.84	0.59
23:BB:1444:G:H2'	23:BB:1445:G:H8	1.67	0.59
23:BB:359:G:O2'	23:BB:360:U:H5'	2.02	0.59
29:BG:131:VAL:HG13	29:BG:133:LYS:HE2	1.85	0.59
22:BA:24:G:N7	22:BA:56:G:H2'	2.17	0.59
40:BS:52:GLU:HA	40:BS:55:ILE:HG22	1.85	0.59
23:DB:1742:U:H2'	23:DB:1743:G:C8	2.38	0.59
1:AA:214:C:H2'	1:AA:215:C:C6	2.38	0.59
23:DB:659:G:H4'	27:DE:95:LYS:HD3	1.85	0.59
1:AA:1042:A:H2'	1:AA:1043:G:O4'	2.02	0.59
23:BB:2077:A:H2'	23:BB:2078:C:C6	2.36	0.59
23:DB:2220:U:H2'	23:DB:2221:G:H8	1.68	0.59
23:DB:1013:C:H2'	23:DB:1014:A:H8	1.66	0.59
23:BB:2893:A:H5''	23:BB:2894:G:H5'	1.85	0.59
23:DB:587:C:H5'	27:DE:85:PHE:CE1	2.37	0.59
36:DO:15:ARG:HH22	43:DW:76:ARG:HG2	1.68	0.59
25:BC:163:ILE:HG22	25:BC:164:VAL:N	2.16	0.59
27:BE:132:LYS:HD3	27:BE:133:LEU:CD2	2.32	0.59
34:BM:73:ILE:HG12	34:BM:90:GLU:OE2	2.03	0.59
5:CF:92:THR:HG22	5:CF:93:LYS:N	2.18	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:36:LEU:HD13	31:DJ:54:ILE:HD12	1.83	0.59
27:BE:193:VAL:HG12	27:BE:194:LYS:HD2	1.84	0.59
30:DH:103:VAL:HG13	30:DH:108:VAL:HB	1.84	0.59
30:DH:129:GLU:HA	30:DH:143:ILE:HA	1.85	0.59
23:DB:634:C:H2'	23:DB:635:C:C6	2.38	0.59
1:AA:796:C:H5'	10:AK:128:VAL:HG13	1.84	0.59
23:DB:1262:A:C2	47:D0:6:LYS:HD2	2.36	0.59
48:B1:42:VAL:HB	48:B1:43:ARG:HH21	1.67	0.59
29:BG:18:ILE:HD13	29:BG:18:ILE:H	1.66	0.59
37:BP:92:ARG:CZ	37:BP:110:LYS:HB3	2.33	0.59
23:BB:222:A:N1	23:BB:233:A:H5''	2.17	0.59
3:CD:2:ARG:HH11	3:CD:114:ARG:HD3	1.65	0.59
23:DB:1825:U:H5'	25:DC:244:VAL:HG21	1.83	0.59
38:BQ:102:LYS:HD2	38:BQ:102:LYS:N	2.18	0.59
1:CA:121:U:H3'	1:CA:121:U:OP1	2.03	0.59
23:BB:1470:A:H3'	23:BB:1471:G:H8	1.67	0.59
23:BB:1312:U:OP2	41:BT:66:LYS:HG2	2.02	0.59
1:AA:766:A:H2	1:AA:1525:G:N3	1.99	0.59
23:DB:2758:A:H2'	23:DB:2759:G:H5'	1.85	0.59
16:AQ:4:ILE:HD12	16:AQ:4:ILE:H	1.67	0.59
52:BI:14:ALA:HA	52:BI:45:THR:HG21	1.83	0.59
29:BG:102:ILE:HG23	29:BG:104:LEU:HD11	1.83	0.59
5:AF:18:VAL:O	5:AF:22:ILE:HG13	2.02	0.59
1:AA:1130:A:H2'	1:AA:1131:G:H8	1.68	0.59
23:BB:209:C:H2'	23:BB:210:C:H6	1.67	0.59
28:DF:26:GLN:HG2	28:DF:26:GLN:O	2.03	0.59
23:DB:1099:G:O4'	52:DI:3:LYS:O	2.20	0.59
23:BB:1241:A:H2'	23:BB:1242:U:C5'	2.32	0.59
23:BB:441:U:H2'	23:BB:442:G:H8	1.67	0.59
35:DN:41:ALA:HB1	35:DN:113:ILE:CD1	2.32	0.59
25:DC:163:ILE:HG12	25:DC:173:LEU:CD2	2.33	0.59
20:AB:46:VAL:HA	20:AB:49:PHE:HD2	1.68	0.59
23:DB:299:A:N6	23:DB:322:A:O2'	2.33	0.59
23:DB:324:A:OP2	27:DE:164:LEU:HB2	2.02	0.59
33:BL:131:ALA:HB1	33:BL:135:ILE:HD12	1.85	0.59
23:BB:2467:C:O4'	34:BM:118:LYS:HG2	2.02	0.59
47:B0:2:VAL:HG22	47:B0:3:GLN:H	1.67	0.59
23:BB:2617:U:H2'	23:BB:2618:G:H5'	1.85	0.59
23:BB:483:A:H4'	42:BU:45:GLN:HA	1.83	0.59
8:AI:35:GLU:HA	8:AI:39:GLY:CA	2.33	0.59
25:BC:30:ALA:N	25:BC:31:PRO:CD	2.66	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DM:40:ARG:HA	34:DM:92:TRP:NE1	2.17	0.59
23:BB:1007:C:H5''	31:BJ:37:ARG:NH2	2.18	0.59
26:DD:77:ARG:HB2	26:DD:77:ARG:HH11	1.67	0.59
30:DH:89:LYS:HA	30:DH:123:ARG:O	2.03	0.59
33:DL:85:VAL:HG13	33:DL:86:GLU:N	2.11	0.59
21:CU:24:LYS:HD2	21:CU:25:ALA:N	2.11	0.59
33:DL:64:PHE:HD2	50:D3:11:LYS:HB3	1.68	0.59
44:DX:25:GLN:O	44:DX:29:ARG:HG3	2.02	0.59
24:DV:9:ARG:HG2	24:DV:41:GLU:CG	2.32	0.59
26:DD:22:ILE:O	26:DD:22:ILE:HG13	2.01	0.59
52:DI:17:ALA:C	52:DI:19:PRO:HD3	2.23	0.59
28:DF:133:GLU:H	28:DF:150:GLY:HA2	1.66	0.59
2:AC:21:TRP:CB	2:AC:58:ARG:HB2	2.33	0.59
25:DC:261:ARG:HG2	25:DC:261:ARG:HH11	1.66	0.59
1:AA:390:U:H2'	1:AA:391:G:H8	1.62	0.59
1:CA:1326:U:O2'	1:CA:1327:C:H5'	2.02	0.59
24:BV:40:ILE:N	24:BV:40:ILE:HD13	2.18	0.59
23:DB:2859:G:H2'	23:DB:2860:A:C8	2.36	0.59
23:BB:419:U:H2'	23:BB:420:C:H6	1.67	0.59
34:BM:86:LYS:HD2	34:BM:86:LYS:H	1.68	0.59
33:DL:2:ARG:HG3	33:DL:2:ARG:NH1	2.18	0.59
1:CA:1031:C:H4'	1:CA:1032:G:H5''	1.84	0.59
10:AK:81:LEU:HD22	10:AK:104:PHE:HB3	1.84	0.59
23:DB:79:C:O2'	23:DB:346:A:H1'	2.03	0.59
23:DB:1210:G:H4'	23:DB:1211:C:OP2	2.02	0.59
23:DB:213:A:O2'	23:DB:214:G:H5'	2.03	0.59
2:CC:65:VAL:HG21	2:CC:90:VAL:HG11	1.83	0.59
23:DB:1412:U:H2'	23:DB:1413:A:C8	2.38	0.59
28:BF:70:ARG:HA	28:BF:80:GLN:HG3	1.83	0.59
19:AT:54:GLN:N	19:AT:55:PRO:HD2	2.17	0.59
1:AA:522:C:H41	11:AL:49:ARG:HH22	1.49	0.59
20:AB:206:ILE:HD13	20:AB:206:ILE:O	2.02	0.59
1:AA:716:A:N3	10:AK:119:GLY:HA2	2.17	0.59
23:DB:1111:A:H4'	29:DG:1:SER:O	2.03	0.59
52:DI:2:LYS:C	52:DI:3:LYS:HD2	2.23	0.59
23:DB:95:A:O2'	44:DX:43:LEU:HD21	2.03	0.59
25:DC:140:VAL:HG11	25:DC:163:ILE:HD11	1.84	0.59
25:DC:171:VAL:HB	25:DC:182:LYS:CB	2.26	0.59
46:BZ:49:ARG:C	46:BZ:51:VAL:H	2.07	0.59
23:DB:850:U:O2'	45:DY:22:THR:HG22	2.03	0.59
35:BN:24:MET:O	35:BN:27:SER:HB3	2.03	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BR:47:VAL:HG13	39:BR:49:ILE:N	2.13	0.59
23:BB:2328:A:H2'	23:BB:2329:U:H6	1.67	0.59
23:DB:635:C:H3'	33:DL:126:ARG:NH2	2.18	0.59
33:DL:109:LYS:CG	33:DL:126:ARG:HD3	2.33	0.59
30:BH:62:LEU:O	30:BH:66:ASN:HB3	2.03	0.59
23:BB:544:C:H2'	23:BB:545:U:C2	2.38	0.59
52:BI:32:VAL:HG22	52:BI:60:VAL:HG21	1.85	0.59
32:DK:99:ILE:CD1	32:DK:115:ILE:HG13	2.32	0.59
39:DR:6:GLN:OE1	39:DR:38:VAL:HG22	2.02	0.59
23:BB:1429:G:H2'	23:BB:1430:G:C8	2.37	0.59
12:AM:64:VAL:HG12	12:AM:65:GLU:N	2.18	0.59
1:CA:1238:A:C2	1:CA:1241:G:H1'	2.38	0.59
1:CA:939:G:H5''	6:CG:101:ARG:NH2	2.17	0.59
4:AE:110:MET:O	4:AE:113:VAL:HG22	2.03	0.59
1:CA:812:G:O2'	1:CA:813:U:H6	1.85	0.59
2:CC:61:LYS:HZ3	2:CC:96:VAL:HG12	1.68	0.59
23:DB:2369:A:O2'	23:DB:2370:G:H5'	2.03	0.59
1:CA:501:C:H1'	1:CA:549:C:H1'	1.85	0.59
23:BB:156:A:H2'	23:BB:157:C:H6	1.67	0.59
1:AA:121:U:H3'	1:AA:121:U:OP1	2.03	0.59
6:AG:117:LEU:HD22	6:AG:120:ALA:HB3	1.84	0.59
13:CN:86:ALA:HB1	13:CN:91:GLU:HB2	1.84	0.59
40:DS:27:LYS:HG3	40:DS:70:LYS:HD3	1.85	0.59
23:BB:355:U:H2'	23:BB:356:G:H8	1.68	0.59
1:CA:993:G:H2'	1:CA:995:C:H41	1.66	0.59
23:BB:296:U:H2'	23:BB:297:G:H8	1.67	0.59
23:DB:2181:U:H6	23:DB:2181:U:O5'	1.86	0.59
1:AA:801:U:H2'	1:AA:802:A:H8	1.67	0.59
23:BB:2097:A:H2'	23:BB:2098:U:C6	2.38	0.59
42:BU:13:LEU:HD12	42:BU:69:VAL:HA	1.84	0.59
42:BU:73:ASN:HB2	42:BU:96:LYS:NZ	2.18	0.59
37:BP:59:THR:HA	37:BP:76:HIS:HA	1.84	0.59
31:DJ:21:THR:HG22	31:DJ:58:ASN:OD1	2.03	0.59
42:DU:31:GLY:O	42:DU:32:LYS:HD3	2.03	0.59
46:BZ:15:SER:O	46:BZ:21:VAL:HB	2.02	0.59
39:BR:90:ARG:HH11	39:BR:91:GLN:N	2.01	0.59
23:BB:2261:C:OP2	43:BW:13:ARG:HB2	2.03	0.59
52:BI:77:VAL:HA	52:BI:80:LYS:CE	2.33	0.59
28:DF:65:LEU:CD2	28:DF:87:LYS:HD2	2.33	0.59
23:DB:873:C:H2'	23:DB:874:G:H8	1.68	0.59
14:CO:28:VAL:HG11	14:CO:80:LEU:HD21	1.85	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:17:LYS:HB3	29:BG:24:THR:HG22	1.85	0.59
35:BN:38:LEU:HB2	35:BN:109:PRO:CB	2.33	0.59
44:BX:35:GLY:CA	44:BX:40:SER:HA	2.32	0.59
23:DB:794:A:H2'	23:DB:795:C:H6	1.67	0.59
49:D2:13:ASN:HA	49:D2:16:HIS:O	2.02	0.59
7:CH:54:THR:HG23	7:CH:55:LYS:HG2	1.83	0.59
1:AA:1348:U:OP1	8:AI:111:GLU:HB2	2.02	0.59
52:BI:18:ASN:N	52:BI:19:PRO:HD2	2.17	0.59
4:CE:95:MET:HG3	4:CE:124:ALA:HB2	1.83	0.59
23:DB:1442:U:H2'	23:DB:1443:U:H6	1.68	0.59
23:DB:1470:A:H3'	23:DB:1471:G:H8	1.66	0.59
1:CA:131:A:H2'	1:CA:132:C:H6	1.68	0.59
1:AA:202:G:H2'	1:AA:203:G:C8	2.37	0.59
23:BB:1076:C:H4'	52:BI:94:LYS:CE	2.33	0.59
28:BF:15:LEU:HD13	28:BF:28:PRO:HG2	1.83	0.59
40:BS:66:ILE:HD12	40:BS:66:ILE:N	2.18	0.59
16:AQ:26:ARG:HH21	16:AQ:39:ARG:NH1	2.00	0.59
23:BB:2789:C:H3'	23:BB:2893:A:H62	1.66	0.59
1:CA:529:G:O6	11:CL:45:ASN:HA	2.03	0.59
23:BB:170:U:H2'	23:BB:171:U:C6	2.37	0.59
8:CI:38:PHE:O	8:CI:44:ARG:HD2	2.03	0.59
23:BB:2491:U:H5''	23:BB:2570:G:C5'	2.33	0.59
1:AA:300:A:H2'	1:AA:301:G:O4'	2.03	0.59
1:CA:1019:A:H2'	1:CA:1020:G:C8	2.38	0.59
23:BB:1579:A:H2'	23:BB:1580:A:C8	2.38	0.59
18:AS:11:ASP:CG	18:AS:34:SER:HB2	2.23	0.59
20:CB:132:GLU:HA	20:CB:135:MET:HE2	1.85	0.59
23:BB:2188:U:H2'	23:BB:2189:U:C6	2.37	0.59
37:DP:65:ASN:H	37:DP:71:ARG:HA	1.68	0.58
37:DP:25:VAL:CG1	37:DP:87:ARG:HA	2.29	0.58
43:DW:65:LYS:HB2	43:DW:65:LYS:NZ	2.18	0.58
31:BJ:20:ALA:HB1	31:BJ:59:ALA:CA	2.33	0.58
38:DQ:20:ALA:HA	38:DQ:23:TYR:CE2	2.37	0.58
23:DB:336:C:H5''	42:DU:3:LYS:HZ1	1.68	0.58
27:DE:152:GLU:O	27:DE:153:LEU:HB2	2.02	0.58
50:B3:23:HIS:HD2	50:B3:23:HIS:H	1.50	0.58
32:BK:60:ALA:HA	32:BK:87:LEU:HG	1.84	0.58
23:BB:1454:C:H5'	35:BN:63:ARG:NH2	2.07	0.58
23:DB:136:G:N1	41:DT:3:ARG:NH1	2.51	0.58
1:AA:403:C:O2'	1:AA:404:G:H5'	2.02	0.58
36:DO:93:ASP:HB2	36:DO:117:PHE:CE2	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:7:HIS:CD2	40:BS:10:ALA:HB2	2.38	0.58
38:BQ:97:ILE:HA	38:BQ:100:PHE:CZ	2.38	0.58
26:DD:110:THR:HB	26:DD:202:ILE:HB	1.84	0.58
30:DH:98:ASP:HA	30:DH:101:ASP:OD1	2.03	0.58
33:DL:123:ARG:HB3	33:DL:141:LYS:HB3	1.83	0.58
32:BK:104:THR:O	32:BK:107:LEU:HB3	2.03	0.58
38:DQ:87:VAL:HB	39:DR:54:VAL:HG11	1.85	0.58
33:DL:118:THR:OG1	33:DL:138:ALA:HB2	2.02	0.58
19:AT:53:MET:O	19:AT:57:VAL:HG23	2.02	0.58
28:BF:126:ASN:ND2	28:BF:126:ASN:N	2.50	0.58
32:DK:24:VAL:HG13	32:DK:33:ALA:HB2	1.85	0.58
23:BB:1484:U:H2'	23:BB:1485:U:H6	1.68	0.58
23:BB:1484:U:H2'	23:BB:1485:U:C6	2.37	0.58
1:AA:1448:C:H2'	1:AA:1449:C:C6	2.38	0.58
1:CA:34:C:H2'	1:CA:35:G:H8	1.68	0.58
3:AD:144:ILE:CD1	3:AD:154:VAL:HG21	2.33	0.58
23:BB:1387:A:H5'	23:BB:1469:A:H1'	1.84	0.58
23:BB:131:A:H2'	23:BB:132:G:C8	2.38	0.58
4:CE:61:LYS:O	4:CE:64:GLU:HB3	2.03	0.58
42:DU:98:ASN:O	42:DU:99:SER:HB2	2.01	0.58
41:BT:36:LYS:O	41:BT:36:LYS:HD3	2.01	0.58
25:DC:237:ARG:HE	25:DC:237:ARG:C	2.07	0.58
27:DE:189:THR:C	27:DE:191:ASP:H	2.06	0.58
23:BB:2789:C:H2'	23:BB:2893:A:N7	2.17	0.58
23:BB:1652:A:H62	35:BN:11:ASN:ND2	2.01	0.58
1:CA:476:U:H2'	1:CA:477:C:C6	2.38	0.58
12:AM:2:ARG:HB3	12:AM:6:ILE:O	2.03	0.58
4:CE:24:VAL:HG23	4:CE:26:GLY:H	1.67	0.58
23:DB:672:C:O2'	23:DB:673:C:H5'	2.03	0.58
42:BU:70:ALA:HB3	42:BU:77:GLY:O	2.03	0.58
30:BH:94:ILE:HG23	30:BH:99:ILE:HD11	1.84	0.58
37:BP:31:VAL:HG12	37:BP:33:GLU:H	1.68	0.58
37:BP:28:LYS:HG2	37:BP:44:GLY:O	2.03	0.58
37:BP:59:THR:HG23	37:BP:76:HIS:NE2	2.18	0.58
25:DC:87:SER:N	25:DC:155:ARG:HH12	2.01	0.58
31:BJ:18:VAL:HG22	31:BJ:55:ILE:O	2.02	0.58
23:DB:2022:U:O2'	23:DB:2617:U:H5'	2.03	0.58
38:DQ:39:ILE:HG13	38:DQ:40:LYS:N	2.17	0.58
30:BH:6:LEU:HA	30:BH:15:LEU:C	2.23	0.58
15:AP:46:LYS:HE2	15:AP:46:LYS:H	1.65	0.58
34:BM:38:ARG:HH11	34:BM:38:ARG:CB	2.10	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:408:A:H5'	3:AD:21:LYS:HE2	1.84	0.58
31:BJ:77:HIS:CD2	31:BJ:84:ILE:HB	2.38	0.58
34:DM:41:LEU:HG	34:DM:46:ILE:HD11	1.85	0.58
10:AK:113:THR:CG2	21:AU:28:LEU:HD21	2.33	0.58
23:BB:686:U:O4	49:B2:12:ARG:HG3	2.02	0.58
23:DB:28:A:O2'	23:DB:29:U:H5'	2.03	0.58
5:AF:42:TRP:HB2	5:AF:59:TYR:HB2	1.84	0.58
23:BB:2369:A:O2'	23:BB:2370:G:H5'	2.03	0.58
28:DF:107:VAL:HG11	28:DF:175:PRO:HG3	1.85	0.58
1:AA:1237:C:H3'	1:AA:1238:A:H5'	1.85	0.58
12:AM:72:ILE:O	12:AM:76:ILE:HG13	2.03	0.58
23:DB:2887:A:N9	47:D0:27:LEU:HD21	2.18	0.58
24:BV:84:PRO:HG3	34:BM:127:LYS:HE2	1.85	0.58
23:BB:2386:A:H2'	23:BB:2387:U:C6	2.38	0.58
12:CM:89:ARG:HB3	12:CM:96:VAL:HG22	1.84	0.58
52:BI:105:LEU:HD11	52:BI:139:VAL:CG1	2.33	0.58
20:AB:60:ALA:HB3	20:AB:223:GLY:HA3	1.83	0.58
23:BB:156:A:H2'	23:BB:157:C:C6	2.38	0.58
29:DG:41:GLU:HG2	29:DG:54:ARG:HH21	1.68	0.58
1:CA:413:G:H4'	1:CA:414:A:H5''	1.85	0.58
3:CD:30:LYS:HB2	3:CD:30:LYS:NZ	2.18	0.58
37:DP:7:LEU:O	37:DP:11:GLN:HG2	2.03	0.58
23:DB:2836:U:H2'	23:DB:2837:A:C8	2.39	0.58
1:CA:1119:C:H2'	1:CA:1120:C:C6	2.37	0.58
23:DB:1857:G:H1'	23:DB:1885:A:N6	2.16	0.58
1:AA:1011:C:H2'	1:AA:1012:A:C8	2.38	0.58
3:CD:71:PHE:HE2	3:CD:89:LEU:HD11	1.68	0.58
50:D3:14:LYS:HA	50:D3:63:TYR:CE2	2.38	0.58
23:BB:2480:C:O2'	23:BB:2481:G:H5'	2.03	0.58
23:BB:1945:G:H2'	23:BB:1946:U:C6	2.37	0.58
1:AA:687:A:C2	1:AA:704:A:C5	2.91	0.58
1:AA:241:G:O2'	1:AA:242:G:H5'	2.03	0.58
33:DL:7:SER:HB2	33:DL:8:PRO:CD	2.17	0.58
23:BB:37:C:H2'	27:BE:46:GLN:OE1	2.03	0.58
30:DH:5:LEU:HD23	30:DH:17:ASP:O	2.02	0.58
30:DH:3:VAL:O	30:DH:18:GLN:HA	2.03	0.58
23:DB:2783:U:H2'	23:DB:2784:U:H6	1.68	0.58
25:DC:86:ARG:C	25:DC:155:ARG:HH12	2.06	0.58
31:BJ:75:TYR:HA	31:BJ:86:GLN:O	2.04	0.58
38:DQ:39:ILE:O	38:DQ:43:GLN:HB3	2.02	0.58
30:BH:35:LYS:O	30:BH:37:VAL:HG13	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:11:ALA:HB3	32:BK:85:VAL:HG23	1.85	0.58
20:AB:67:LEU:HD13	20:AB:67:LEU:N	2.18	0.58
28:BF:132:ARG:NE	28:BF:147:ARG:HE	2.00	0.58
25:BC:32:LEU:HA	25:BC:81:GLU:OE1	2.04	0.58
13:AN:71:GLY:O	13:AN:79:SER:HA	2.04	0.58
27:BE:3:LEU:CB	27:BE:12:LEU:HD22	2.33	0.58
18:AS:4:LEU:HD13	18:AS:8:PRO:HA	1.84	0.58
27:DE:14:VAL:HG12	27:DE:16:GLU:H	1.67	0.58
23:DB:764:A:H5''	25:DC:208:GLY:HA3	1.84	0.58
38:DQ:89:ILE:H	38:DQ:89:ILE:HD12	1.69	0.58
37:DP:38:ARG:CG	37:DP:39:LEU:H	2.08	0.58
39:DR:71:LYS:HB2	39:DR:73:LYS:NZ	2.18	0.58
4:CE:11:GLN:OE1	4:CE:116:VAL:HA	2.03	0.58
1:AA:950:U:H2'	1:AA:951:G:H8	1.68	0.58
42:DU:11:ILE:HB	42:DU:69:VAL:HG23	1.84	0.58
10:CK:73:VAL:O	10:CK:76:TYR:HB2	2.04	0.58
9:CJ:38:GLY:O	9:CJ:74:VAL:HA	2.03	0.58
23:DB:946:C:H2'	23:DB:947:A:H8	1.68	0.58
30:BH:73:ASN:ND2	30:BH:73:ASN:N	2.52	0.58
4:CE:113:VAL:HG23	4:CE:114:LEU:N	2.18	0.58
1:AA:1246:A:H2'	1:AA:1247:U:C6	2.38	0.58
28:BF:102:LEU:C	28:BF:107:VAL:HG23	2.23	0.58
23:BB:1552:A:C2'	23:BB:1553:A:H5'	2.33	0.58
22:DA:38:C:H4'	36:DO:100:HIS:NE2	2.18	0.58
14:CO:20:ASP:OD2	14:CO:23:SER:HB2	2.04	0.58
23:DB:1515:A:H4'	23:DB:1556:C:O2'	2.04	0.58
42:BU:46:LYS:HE2	42:BU:54:PRO:O	2.03	0.58
52:DI:85:ILE:CD1	52:DI:137:LEU:HD21	2.32	0.58
23:BB:2836:U:H2'	23:BB:2837:A:C8	2.39	0.58
1:AA:203:G:N2	1:AA:205:A:H61	2.01	0.58
25:DC:109:LEU:HD21	25:DC:115:ILE:HD11	1.84	0.58
23:DB:230:G:H2'	23:DB:231:A:H8	1.67	0.58
23:DB:419:U:H2'	23:DB:420:C:C6	2.38	0.58
23:BB:1447:C:H2'	23:BB:1448:G:C8	2.37	0.58
9:CJ:85:ASP:HA	9:CJ:89:ARG:HB2	1.85	0.58
23:DB:1229:C:H2'	23:DB:1230:A:H8	1.68	0.58
8:CI:41:GLU:H	8:CI:44:ARG:HD3	1.68	0.58
23:DB:307:G:N2	23:DB:309:A:H3'	2.17	0.58
1:CA:1163:A:H2'	1:CA:1164:G:H8	1.67	0.58
1:CA:300:A:H2'	1:CA:301:G:O4'	2.03	0.58
15:AP:26:ASN:CG	15:AP:31:ARG:HB3	2.24	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:B4:16:ILE:N	51:B4:16:ILE:HD12	2.17	0.58
23:BB:877:A:N1	23:BB:899:A:H2'	2.17	0.58
25:BC:119:VAL:HG13	25:BC:133:ASN:ND2	2.18	0.58
25:BC:140:VAL:C	25:BC:193:GLU:HB2	2.23	0.58
23:BB:1144:A:O2'	23:BB:1145:C:H5'	2.03	0.58
42:DU:32:LYS:HA	42:DU:65:GLN:HE21	1.68	0.58
16:AQ:66:LEU:HD11	16:AQ:73:THR:HG22	1.85	0.58
40:BS:50:VAL:HG11	40:BS:103:ILE:HG12	1.85	0.58
34:DM:16:ARG:NH2	34:DM:72:PRO:HG2	2.17	0.58
43:BW:40:ARG:HH12	43:BW:68:PHE:HA	1.67	0.58
10:AK:26:PHE:HE1	10:AK:88:PRO:HG2	1.68	0.58
26:DD:24:VAL:CG1	26:DD:193:VAL:HG21	2.34	0.58
26:BD:83:ARG:HH12	26:BD:85:ALA:HB2	1.67	0.58
39:DR:6:GLN:HB3	39:DR:41:ILE:HD13	1.84	0.58
8:CI:50:PRO:HD3	8:CI:79:ARG:HD3	1.85	0.58
1:AA:1324:A:H2'	1:AA:1325:C:H6	1.69	0.58
23:BB:1082:U:N3	23:BB:1086:A:C2	2.71	0.58
23:BB:794:A:H2'	23:BB:795:C:H6	1.67	0.58
23:DB:90:U:H2'	23:DB:91:A:C2	2.39	0.58
29:DG:156:TYR:HA	29:DG:171:LYS:HG3	1.84	0.58
11:AL:22:ALA:HB2	11:AL:56:LEU:HD21	1.85	0.58
23:DB:125:A:H4'	49:D2:13:ASN:ND2	2.18	0.58
30:DH:115:VAL:HB	30:DH:132:PHE:HD1	1.68	0.58
1:AA:88:U:O2'	1:AA:89:U:C6	2.56	0.58
4:CE:104:ILE:O	4:CE:104:ILE:HG23	2.03	0.58
23:BB:27:G:N2	23:BB:512:G:H2'	2.17	0.58
23:DB:2756:U:C1'	23:DB:2757:A:H5''	2.34	0.58
2:AC:151:GLU:O	2:AC:197:VAL:HA	2.02	0.58
23:BB:2898:U:H2'	23:BB:2899:A:H8	1.69	0.58
25:DC:28:PRO:HG2	25:DC:79:ARG:NH2	2.18	0.58
25:BC:181:ARG:NH1	25:BC:260:LYS:HD2	2.18	0.58
10:CK:28:ASN:ND2	10:CK:29:THR:H	2.00	0.58
29:DG:70:LEU:O	29:DG:74:MET:HG3	2.03	0.58
23:DB:942:G:O2'	23:DB:943:A:H5'	2.03	0.58
30:DH:135:HIS:HB3	30:DH:138:VAL:CG2	2.33	0.58
23:BB:1229:C:H2'	23:BB:1230:A:C8	2.38	0.58
51:B4:16:ILE:H	51:B4:16:ILE:HD12	1.68	0.58
1:CA:241:G:O2'	1:CA:242:G:H5'	2.02	0.58
38:DQ:15:LYS:O	38:DQ:19:GLN:HG2	2.03	0.58
1:CA:620:C:C2	3:CD:131:ILE:HD13	2.38	0.58
6:CG:37:THR:O	6:CG:41:ILE:HG13	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:111:A:H2'	23:BB:112:U:O4'	2.02	0.58
1:AA:621:A:H2'	1:AA:622:A:C8	2.38	0.58
23:DB:69:C:H2'	23:DB:70:G:H8	1.68	0.58
24:DV:43:ASP:OD2	24:DV:46:LYS:HB2	2.03	0.58
23:DB:1579:A:H2'	23:DB:1580:A:C8	2.38	0.58
42:BU:71:ILE:HD13	42:BU:72:PHE:O	2.03	0.58
51:D4:10:LEU:HB2	51:D4:25:VAL:CG2	2.34	0.58
23:BB:917:A:C2	23:BB:918:A:H1'	2.38	0.58
27:DE:147:LEU:H	27:DE:147:LEU:HD12	1.68	0.58
27:DE:151:GLY:O	27:DE:171:ASP:HA	2.04	0.58
27:DE:187:VAL:HG23	27:DE:188:MET:H	1.68	0.58
33:BL:64:PHE:CD1	50:B3:24:LYS:HE3	2.39	0.58
33:BL:84:LYS:O	33:BL:85:VAL:HG12	2.03	0.58
23:BB:2267:A:N6	23:BB:2272:U:C4	2.67	0.58
24:BV:42:LEU:HB2	24:BV:47:VAL:HG21	1.85	0.58
41:DT:87:LEU:HD22	41:DT:93:LEU:HD11	1.85	0.58
13:CN:62:ARG:N	13:CN:72:PHE:HZ	2.02	0.58
23:DB:2421:G:OP2	50:D3:31:ILE:HG21	2.04	0.58
1:CA:1021:A:H2'	1:CA:1022:A:C8	2.38	0.58
14:CO:62:ARG:CZ	14:CO:86:LEU:HD21	2.33	0.58
2:AC:5:HIS:CD2	2:AC:7:ASN:HB2	2.38	0.58
32:DK:43:ILE:N	32:DK:43:ILE:HD12	2.18	0.58
32:DK:6:THR:HG22	32:DK:7:MET:H	1.68	0.58
23:BB:2811:G:OP1	26:BD:61:THR:HB	2.04	0.58
11:CL:77:SER:O	11:CL:79:ILE:HG23	2.03	0.58
28:BF:107:VAL:N	28:BF:108:PRO:CD	2.65	0.58
23:DB:2010:G:H5''	40:DS:42:LYS:HB2	1.84	0.58
25:DC:110:LYS:HE3	25:DC:110:LYS:HA	1.84	0.58
23:BB:172:A:H2'	23:BB:173:A:H8	1.68	0.58
16:CQ:42:LYS:C	16:CQ:43:LEU:HD12	2.23	0.58
23:DB:2893:A:H5''	23:DB:2894:G:H5'	1.85	0.58
23:BB:2491:U:H5''	23:BB:2570:G:H5''	1.85	0.58
1:AA:186:C:H4'	19:AT:75:LYS:HB2	1.85	0.58
20:AB:172:ILE:HG22	20:AB:176:ASN:HD21	1.68	0.58
23:BB:1777:U:O2'	23:BB:1778:U:H5'	2.03	0.58
23:BB:1537:G:H3'	23:BB:1537:G:N3	2.18	0.58
23:BB:1259:G:H2'	23:BB:1260:A:H8	1.68	0.58
1:AA:476:U:H2'	1:AA:477:C:C6	2.38	0.58
41:BT:25:GLU:HG3	41:BT:26:LYS:H	1.67	0.58
44:DX:56:LEU:HA	44:DX:59:GLU:HB2	1.86	0.58
23:BB:2873:A:N3	35:BN:6:SER:HA	2.18	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2491:U:H5''	23:DB:2570:G:H5''	1.85	0.58
23:DB:208:C:H2'	23:DB:209:C:H6	1.68	0.58
37:DP:71:ARG:HH11	37:DP:71:ARG:HB3	1.67	0.58
23:DB:98:G:C3'	23:DB:99:U:H5''	2.33	0.58
23:BB:38:A:C8	27:BE:46:GLN:OE1	2.57	0.58
26:BD:14:ILE:HA	26:BD:19:GLY:HA2	1.85	0.58
50:B3:12:ARG:HG2	50:B3:23:HIS:HB3	1.85	0.58
33:BL:54:GLN:HB3	33:BL:56:PRO:HD2	1.84	0.58
33:BL:78:ARG:CZ	33:BL:110:VAL:HG11	2.33	0.58
34:BM:101:VAL:C	34:BM:102:LEU:HD12	2.24	0.58
34:BM:71:LYS:HE2	34:BM:91:TYR:C	2.23	0.58
1:CA:1320:C:H41	18:CS:36:ARG:HD2	1.68	0.58
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.68	0.58
23:DB:1484:U:H2'	23:DB:1485:U:H6	1.68	0.58
23:BB:26:G:H2'	23:BB:27:G:C1'	2.34	0.58
23:DB:1557:C:H3'	23:DB:1558:C:H5''	1.84	0.58
1:AA:922:G:N3	1:AA:1398:A:H2	2.02	0.58
1:AA:923:A:H2'	1:AA:924:C:C6	2.39	0.58
30:BH:57:LYS:HG3	30:BH:61:VAL:CG2	2.34	0.58
23:BB:1799:G:C5	25:BC:175:LEU:HD13	2.39	0.58
39:BR:20:VAL:HG13	39:BR:97:LYS:HD2	1.86	0.58
1:CA:202:G:H2'	1:CA:203:G:H8	1.69	0.58
23:DB:2491:U:H5''	23:DB:2570:G:C5'	2.33	0.58
23:DB:1777:U:O2'	23:DB:1778:U:H5'	2.03	0.58
31:DJ:94:ALA:HB1	31:DJ:95:ARG:HH21	1.69	0.58
23:BB:1709:U:H2'	23:BB:1710:G:H8	1.68	0.58
23:BB:1742:U:H2'	23:BB:1743:G:C8	2.38	0.58
23:DB:1444:G:H2'	23:DB:1445:G:H8	1.67	0.58
1:AA:1508:A:H2'	1:AA:1509:C:C6	2.38	0.58
33:DL:25:SER:C	33:DL:27:LEU:H	2.07	0.58
23:BB:1046:A:C3'	23:BB:1047:G:H5''	2.32	0.58
14:AO:68:TYR:CZ	14:AO:72:LYS:HG3	2.39	0.58
23:BB:2083:G:H2'	23:BB:2084:C:C6	2.38	0.58
23:BB:950:G:H2'	23:BB:951:C:C6	2.39	0.58
36:BO:21:LEU:HD13	36:BO:22:GLY:N	2.18	0.58
36:BO:40:ILE:HG12	36:BO:41:ALA:O	2.04	0.58
23:DB:2020:A:H5'	47:D0:8:THR:HG21	1.84	0.58
34:BM:67:VAL:HB	34:BM:100:LYS:CG	2.32	0.58
23:DB:138:U:H2'	23:DB:140:C:C6	2.38	0.58
41:DT:66:LYS:HA	41:DT:76:ARG:O	2.03	0.58
35:BN:29:VAL:HG22	35:BN:83:LEU:HD22	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:138:LEU:HD23	26:BD:139:SER:H	1.68	0.58
1:AA:1100:C:OP2	20:AB:94:ARG:HD3	2.04	0.58
23:DB:2024:G:H5''	26:DD:154:LYS:NZ	2.18	0.58
33:DL:90:VAL:HG13	33:DL:122:VAL:HG13	1.86	0.58
1:CA:1299:A:N7	1:CA:1301:U:H1'	2.19	0.58
28:DF:56:LEU:HA	28:DF:59:ILE:CG2	2.34	0.58
2:AC:71:ARG:NH2	2:AC:74:ILE:HB	2.18	0.58
3:AD:60:VAL:HB	3:AD:194:ILE:HG13	1.84	0.58
41:DT:34:VAL:HG22	41:DT:35:ALA:H	1.67	0.58
23:BB:3:U:O2'	23:BB:4:U:H6	1.87	0.58
9:AJ:71:LEU:H	9:AJ:71:LEU:HD12	1.68	0.58
23:BB:146:A:H2'	23:BB:147:C:H6	1.66	0.58
25:BC:75:ALA:HB2	25:BC:95:TYR:CE1	2.38	0.58
48:B1:35:LEU:C	48:B1:36:LYS:HD2	2.24	0.58
22:DA:28:C:OP1	36:DO:33:ARG:HD3	2.04	0.58
23:DB:479:A:N3	23:DB:481:G:H5''	2.19	0.58
23:BB:19:A:H2'	23:BB:20:C:H6	1.65	0.58
23:BB:21:A:O2'	23:BB:22:C:H5'	2.04	0.58
1:AA:398:U:H2'	1:AA:399:G:C8	2.39	0.58
23:DB:1439:A:N6	23:DB:1440:U:O2	2.35	0.58
23:DB:2466:C:OP1	51:D4:5:ALA:HB3	2.04	0.58
12:CM:79:LEU:HA	12:CM:82:LEU:HG	1.85	0.58
25:DC:74:PRO:HG3	25:DC:116:GLN:HG2	1.85	0.58
33:BL:133:ALA:HA	33:BL:136:GLU:OE2	2.03	0.58
1:CA:1142:G:H2'	1:CA:1143:G:H8	1.68	0.58
1:CA:26:A:N6	1:CA:558:G:H1'	2.19	0.58
22:DA:35:C:H2'	22:DA:36:C:O4'	2.03	0.58
1:CA:212:G:H2'	1:CA:213:G:H8	1.68	0.58
1:AA:1130:A:O2'	1:AA:1131:G:H5'	2.04	0.58
3:AD:17:ASP:OD2	3:AD:27:ILE:HG12	2.04	0.58
23:DB:976:G:H4'	23:DB:1156:A:N7	2.19	0.58
23:BB:1932:A:H2'	23:BB:1933:G:O4'	2.04	0.58
23:BB:1847:A:H4'	23:BB:1848:A:C8	2.39	0.58
4:AE:158:LYS:N	4:AE:158:LYS:HE2	2.19	0.58
23:BB:2351:G:O6	50:B3:38:LYS:HD2	2.03	0.58
20:AB:187:ASP:HB2	20:AB:203:ASP:HB3	1.86	0.58
37:BP:7:LEU:HD13	37:BP:11:GLN:HG2	1.84	0.58
43:DW:44:PHE:CE2	43:DW:60:ALA:HB2	2.38	0.58
35:DN:35:LYS:HD3	35:DN:112:TYR:CD1	2.39	0.58
27:DE:115:GLN:CG	27:DE:116:ASP:H	2.17	0.58
27:DE:152:GLU:HB2	27:DE:158:PHE:CE1	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:57:LEU:HD12	33:BL:57:LEU:O	2.03	0.58
46:BZ:5:ILE:CD1	46:BZ:5:ILE:H	2.11	0.58
32:BK:40:LYS:NZ	32:BK:89:ASN:HD21	2.01	0.58
20:AB:65:LYS:HD2	20:AB:157:PRO:HA	1.86	0.58
1:AA:1299:A:H62	1:AA:1302:C:H5	1.52	0.58
40:BS:29:VAL:CG2	40:BS:71:VAL:HG23	2.34	0.58
10:AK:110:THR:HG22	21:AU:4:LYS:HA	1.86	0.58
30:DH:94:ILE:CG2	30:DH:122:LEU:HG	2.33	0.58
1:CA:1219:A:H2'	1:CA:1220:G:C8	2.39	0.58
23:BB:2874:C:P	35:BN:5:LYS:HG2	2.44	0.58
26:DD:148:GLN:HB3	26:DD:151:THR:CG2	2.34	0.58
50:D3:12:ARG:NE	50:D3:23:HIS:HB2	2.19	0.58
52:DI:76:ALA:HA	52:DI:135:MET:SD	2.44	0.58
22:DA:102:G:H2'	22:DA:103:U:C6	2.39	0.58
45:DY:38:GLU:O	45:DY:43:ILE:HG21	2.04	0.58
26:BD:157:LYS:HG2	31:BJ:79:GLY:O	2.02	0.58
42:DU:8:ASP:O	42:DU:10:VAL:N	2.37	0.58
17:CR:23:LYS:HD2	17:CR:23:LYS:O	2.04	0.58
47:D0:27:LEU:H	47:D0:27:LEU:CD2	2.15	0.58
23:BB:1199:U:H2'	23:BB:1200:C:H6	1.67	0.58
16:CQ:10:ARG:NH2	16:CQ:55:GLY:N	2.52	0.58
25:DC:21:PRO:HG2	25:DC:22:GLU:H	1.68	0.58
11:CL:80:LEU:HD23	11:CL:97:VAL:HG21	1.86	0.58
29:BG:60:GLY:O	29:BG:63:GLN:HG2	2.04	0.58
46:DZ:11:GLU:H	46:DZ:27:THR:CG2	2.16	0.58
23:BB:55:G:P	49:B2:35:ARG:HH21	2.26	0.58
23:BB:17:G:H2'	23:BB:18:U:C6	2.39	0.58
2:AC:113:LYS:HD2	2:AC:184:ASN:OD1	2.04	0.58
23:BB:1791:A:C2	23:BB:1829:A:C4'	2.87	0.58
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.68	0.58
40:DS:2:GLU:HB2	40:DS:108:SER:HA	1.85	0.58
34:DM:81:ARG:HG3	34:DM:82:MET:HG2	1.85	0.58
3:AD:191:SER:O	3:AD:192:ALA:HB2	2.04	0.58
23:BB:962:G:N2	34:BM:81:ARG:HH21	2.01	0.58
40:DS:39:THR:O	40:DS:39:THR:HG23	2.03	0.58
23:BB:950:G:H2'	23:BB:951:C:H6	1.67	0.58
45:BY:22:THR:HG21	45:BY:50:VAL:HG11	1.85	0.58
4:AE:140:ILE:HA	4:AE:143:LEU:HD12	1.85	0.58
1:AA:742:G:O2'	1:AA:743:A:H5'	2.03	0.58
1:CA:450:G:N7	1:CA:481:G:O6	2.37	0.58
3:CD:19:PHE:O	3:CD:22:SER:HB2	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:109:VAL:O	38:DQ:113:LYS:HB2	2.04	0.58
1:AA:1160:G:H2'	1:AA:1161:C:H6	1.69	0.58
23:BB:782:A:O2'	25:BC:223:ALA:HB1	2.04	0.58
20:AB:166:ASP:OD1	20:AB:190:SER:HA	2.03	0.58
1:CA:797:C:OP1	10:CK:125:LYS:HG3	2.04	0.58
30:BH:3:VAL:HG13	30:BH:21:VAL:HG11	1.86	0.58
23:BB:651:G:P	50:B3:16:THR:HB	2.44	0.58
46:BZ:25:ARG:HH11	46:BZ:25:ARG:CB	2.11	0.58
23:BB:2572:A:C8	26:BD:150:GLN:O	2.57	0.58
23:DB:2820:A:H4'	35:DN:4:ARG:HG3	1.84	0.58
8:AI:51:LEU:HB3	8:AI:56:MET:HG2	1.85	0.58
31:DJ:7:LYS:HD2	31:DJ:45:THR:OG1	2.04	0.58
28:BF:132:ARG:HH11	28:BF:132:ARG:HG3	1.68	0.58
35:BN:116:VAL:HG13	35:BN:117:ASP:N	2.19	0.58
25:BC:63:ILE:O	25:BC:64:VAL:HG13	2.04	0.58
13:AN:63:CYS:SG	13:AN:66:THR:HG22	2.44	0.58
23:DB:634:C:H2'	23:DB:635:C:H6	1.68	0.58
41:BT:58:VAL:HG12	41:BT:59:ASN:H	1.68	0.58
23:BB:2783:U:H2'	23:BB:2784:U:H6	1.68	0.58
1:CA:865:A:H2'	1:CA:866:C:H6	1.68	0.58
5:AF:64:VAL:HG12	5:AF:65:GLU:N	2.15	0.58
23:BB:705:A:N6	23:BB:726:G:O2'	2.37	0.58
29:BG:49:LEU:HD12	29:BG:49:LEU:N	2.19	0.58
9:AJ:40:ILE:HG22	9:AJ:41:PRO:HD2	1.86	0.58
1:AA:1468:A:H2'	1:AA:1469:C:O4'	2.03	0.58
1:AA:80:A:H2'	1:AA:81:A:O4'	2.04	0.58
3:AD:138:PRO:HA	3:AD:181:PHE:CD2	2.39	0.58
7:CH:77:VAL:HG23	7:CH:126:CYS:HA	1.85	0.58
23:BB:458:G:N2	23:BB:469:G:H2'	2.19	0.58
27:BE:52:VAL:HG13	27:BE:53:THR:N	2.18	0.58
23:BB:18:U:H2'	23:BB:19:A:C8	2.38	0.58
23:DB:2257:U:H5'	43:DW:5:ALA:CB	2.34	0.58
23:DB:1439:A:N7	23:DB:1440:U:N1	2.51	0.58
23:DB:2415:G:H2'	23:DB:2416:C:C6	2.39	0.58
35:DN:11:ASN:C	35:DN:12:ARG:HD3	2.24	0.58
2:CC:129:PHE:CE2	2:CC:156:LEU:HD13	2.38	0.58
4:AE:111:ARG:O	4:AE:115:GLU:HG3	2.04	0.58
4:AE:13:LYS:HE3	4:AE:115:GLU:HB2	1.86	0.58
1:AA:1519:A:H3'	1:AA:1520:C:C5'	2.34	0.58
1:CA:398:U:H2'	1:CA:399:G:C8	2.39	0.58
1:AA:1171:A:H2'	1:AA:1172:C:C6	2.38	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2378:A:H2'	23:BB:2379:G:H5'	1.85	0.58
23:DB:936:A:H2'	23:DB:937:C:H6	1.68	0.58
32:BK:7:MET:HE2	32:BK:20:MET:HA	1.86	0.58
23:BB:2105:U:H2'	23:BB:2106:U:C6	2.39	0.58
23:BB:2415:G:H2'	23:BB:2416:C:C6	2.39	0.58
23:BB:1722:A:H61	23:BB:1738:G:H1'	1.69	0.58
1:CA:1200:C:C3'	1:CA:1201:A:H5'	2.33	0.58
1:AA:26:A:N6	1:AA:558:G:H1'	2.19	0.58
23:DB:499:U:H2'	23:DB:500:G:O4'	2.04	0.58
23:DB:331:C:O2'	23:DB:332:A:H5'	2.04	0.58
6:CG:74:VAL:HG21	6:CG:143:MET:HG2	1.86	0.58
36:DO:75:GLY:HA3	36:DO:109:ALA:HB3	1.86	0.58
23:DB:267:C:H2'	23:DB:268:C:H6	1.69	0.58
23:BB:2530:A:N6	29:BG:155:PRO:HG3	2.19	0.58
1:CA:687:A:C2	1:CA:704:A:C5	2.91	0.58
19:CT:43:LYS:HB3	19:CT:86:ALA:HB3	1.84	0.58
23:BB:660:C:H2'	23:BB:661:A:C8	2.39	0.58
20:AB:163:ILE:O	20:AB:185:ILE:HG13	2.04	0.58
32:BK:108:ARG:HB2	32:BK:116:ILE:HD13	1.84	0.58
26:BD:8:LYS:HD2	37:BP:5:LYS:HD2	1.85	0.58
23:DB:1818:U:H2'	25:DC:152:GLN:O	2.04	0.58
25:DC:173:LEU:HD12	25:DC:183:VAL:HG11	1.86	0.58
27:DE:172:ALA:O	27:DE:173:THR:HG22	2.04	0.58
15:AP:41:PRO:O	15:AP:42:ILE:HD13	2.03	0.58
26:DD:116:LYS:HB2	26:DD:165:MET:HB2	1.86	0.58
23:DB:1847:A:H4'	23:DB:1848:A:C8	2.39	0.58
50:D3:49:VAL:HG13	50:D3:51:LYS:H	1.69	0.58
42:BU:40:LEU:HD13	42:BU:41:VAL:H	1.69	0.58
1:AA:1060:U:H5''	9:AJ:53:ILE:CG2	2.34	0.58
41:BT:11:LEU:HB2	41:BT:32:LEU:HD23	1.85	0.58
41:BT:39:THR:O	41:BT:43:ILE:HG12	2.03	0.58
44:BX:22:LEU:HA	44:BX:47:ARG:HH22	1.68	0.58
27:DE:4:VAL:HG13	27:DE:5:LEU:N	2.14	0.58
31:DJ:81:ILE:HG23	31:DJ:82:GLY:N	2.12	0.58
23:DB:2839:G:C4'	35:DN:49:GLU:HG2	2.32	0.58
52:BI:11:GLN:HG3	52:BI:11:GLN:O	2.03	0.58
29:DG:5:LYS:HD3	29:DG:68:ARG:CB	2.33	0.58
35:BN:67:PHE:HD2	35:BN:73:ASN:HD21	1.52	0.58
26:DD:23:PRO:HB3	26:DD:188:LEU:HB3	1.84	0.58
31:DJ:25:LEU:HD12	31:DJ:62:VAL:HA	1.86	0.58
36:BO:9:ARG:HA	36:BO:12:THR:HG23	1.85	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:D2:16:HIS:NE2	49:D2:44:VAL:HA	2.19	0.58
4:AE:85:LYS:HE2	4:AE:92:ARG:HH11	1.68	0.58
1:AA:501:C:H1'	1:AA:549:C:H1'	1.85	0.58
14:CO:88:ARG:NH2	23:DB:714:U:H3'	2.19	0.58
6:CG:12:LEU:HD13	6:CG:13:PRO:HD2	1.85	0.58
1:AA:8:A:H1'	4:AE:107:GLY:HA2	1.86	0.58
8:AI:21:LYS:O	8:AI:60:LEU:HB2	2.03	0.58
1:CA:677:U:H2'	1:CA:678:U:H6	1.69	0.58
23:DB:225:C:H2'	23:DB:226:A:O4'	2.03	0.58
1:CA:1387:G:H2'	1:CA:1388:C:C6	2.38	0.58
1:CA:1036:A:H2'	1:CA:1037:C:H6	1.68	0.58
9:AJ:31:ARG:NH1	9:AJ:31:ARG:HG2	2.19	0.58
1:AA:552:U:H2'	1:AA:553:A:H8	1.69	0.58
23:BB:11:C:H2'	23:BB:12:U:H5'	1.85	0.58
44:DX:49:ASP:HA	44:DX:52:ARG:NH1	2.19	0.58
1:CA:801:U:H2'	1:CA:802:A:H8	1.68	0.58
23:DB:1537:G:H3'	23:DB:1537:G:N3	2.19	0.58
44:BX:2:LYS:HD2	44:BX:2:LYS:H	1.69	0.58
1:AA:1434:A:H2'	1:AA:1435:G:C8	2.39	0.58
37:DP:27:VAL:HG23	37:DP:86:LYS:HB3	1.85	0.57
42:BU:12:VAL:HG11	42:BU:18:LYS:H	1.67	0.57
42:BU:23:LYS:HZ3	42:BU:24:VAL:CG2	2.17	0.57
23:BB:1203:U:H3'	23:BB:1204:A:C5'	2.33	0.57
27:BE:43:THR:HG23	27:BE:44:ARG:NE	2.19	0.57
23:BB:1818:U:H5''	25:BC:155:ARG:CG	2.34	0.57
30:BH:11:ASN:ND2	30:BH:12:LEU:H	2.01	0.57
27:DE:141:MET:HB3	27:DE:185:LYS:HZ1	1.68	0.57
33:BL:82:LEU:HD13	33:BL:83:ALA:N	2.19	0.57
46:BZ:63:ARG:HA	46:BZ:63:ARG:CZ	2.34	0.57
34:BM:64:TRP:O	34:BM:102:LEU:HB2	2.03	0.57
34:BM:71:LYS:HD2	34:BM:71:LYS:C	2.24	0.57
36:DO:27:VAL:HG23	36:DO:28:VAL:H	1.67	0.57
23:BB:1163:G:O2'	23:BB:1164:C:H5'	2.04	0.57
31:BJ:10:THR:HB	31:BJ:13:ARG:HH12	1.68	0.57
27:BE:150:THR:HA	27:BE:187:VAL:HG23	1.85	0.57
40:DS:23:LEU:HB2	47:D0:21:LEU:CD1	2.30	0.57
21:CU:3:ILE:HG12	21:CU:19:LYS:HB3	1.85	0.57
23:DB:2650:U:H2'	23:DB:2651:C:H6	1.69	0.57
25:DC:53:ILE:HG21	25:DC:218:THR:OG1	2.04	0.57
13:CN:40:ARG:HH11	13:CN:40:ARG:HG3	1.69	0.57
32:DK:105:ARG:H	32:DK:105:ARG:HD3	1.68	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AF:40:GLU:HG3	5:AF:42:TRP:NE1	2.19	0.57
23:BB:705:A:N6	23:BB:726:G:H1'	2.19	0.57
38:DQ:92:LYS:C	38:DQ:94:LEU:H	2.07	0.57
1:CA:1096:C:H2'	1:CA:1097:C:H6	1.67	0.57
23:DB:125:A:H4'	49:D2:13:ASN:HD21	1.69	0.57
49:D2:46:LYS:O	49:D2:46:LYS:HE3	2.04	0.57
20:CB:202:ASN:ND2	20:CB:203:ASP:N	2.51	0.57
23:DB:2072:C:H2'	23:DB:2073:C:H6	1.69	0.57
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.69	0.57
36:DO:30:ARG:N	36:DO:30:ARG:HD3	2.19	0.57
29:BG:20:GLY:HA2	29:BG:41:GLU:HG2	1.86	0.57
23:BB:1439:A:N7	23:BB:1440:U:N1	2.51	0.57
23:BB:1442:U:H2'	23:BB:1443:U:H6	1.69	0.57
23:BB:1515:A:H4'	23:BB:1556:C:O2'	2.04	0.57
23:DB:1552:A:C2'	23:DB:1553:A:H5'	2.33	0.57
20:CB:57:ASN:ND2	20:CB:223:GLY:HA2	2.19	0.57
23:BB:718:A:H5''	23:BB:719:C:H5	1.69	0.57
1:AA:537:G:H5''	11:AL:109:ARG:NH1	2.19	0.57
16:AQ:23:ALA:HB1	16:AQ:40:THR:HG23	1.84	0.57
15:CP:1:MET:HB3	15:CP:24:SER:OG	2.04	0.57
23:BB:1946:U:H2'	23:BB:1947:C:H6	1.69	0.57
44:DX:1:MET:HB2	44:DX:6:LEU:HG	1.86	0.57
29:DG:85:LYS:HB3	29:DG:131:VAL:HA	1.85	0.57
1:CA:335:C:H2'	1:CA:336:A:C8	2.39	0.57
12:AM:67:ASP:CG	28:BF:111:ARG:HB3	2.25	0.57
22:BA:32:U:H1'	22:BA:52:A:N7	2.20	0.57
23:DB:2553:G:H2'	23:DB:2554:U:C4'	2.34	0.57
23:DB:2567:G:H2'	23:DB:2568:U:C6	2.39	0.57
50:D3:2:LYS:HB2	50:D3:2:LYS:NZ	2.19	0.57
51:D4:11:CYS:HB2	51:D4:14:CYS:CB	2.28	0.57
51:D4:15:LYS:HZ2	51:D4:22:VAL:HG12	1.69	0.57
23:DB:536:G:H5''	38:DQ:52:ARG:HH22	1.69	0.57
46:DZ:47:LYS:HB2	46:DZ:51:VAL:CG1	2.34	0.57
23:BB:582:A:H2'	23:BB:583:G:H8	1.68	0.57
23:DB:135:U:H2'	23:DB:136:G:C8	2.38	0.57
20:AB:67:LEU:HD22	20:AB:67:LEU:N	2.19	0.57
28:BF:64:PRO:HA	28:BF:88:VAL:HG22	1.86	0.57
35:BN:41:ALA:HA	35:BN:113:ILE:HD11	1.87	0.57
27:BE:118:LEU:HD23	27:BE:118:LEU:N	2.17	0.57
27:BE:121:VAL:HG12	27:BE:122:GLU:N	2.19	0.57
23:DB:921:C:H2'	23:DB:922:C:H6	1.68	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1198:U:H4'	38:DQ:8:ILE:HD11	1.87	0.57
26:DD:204:LYS:HE2	26:DD:204:LYS:HA	1.84	0.57
30:BH:134:VAL:HG13	30:BH:135:HIS:N	2.14	0.57
35:BN:73:ASN:HA	35:BN:76:VAL:HG13	1.86	0.57
45:DY:37:ARG:CZ	45:DY:37:ARG:HA	2.34	0.57
1:AA:1491:G:H5''	1:AA:1492:A:OP2	2.04	0.57
1:AA:1027:C:H2'	1:AA:1028:C:H6	1.68	0.57
10:CK:69:CYS:C	10:CK:73:VAL:HG22	2.24	0.57
23:DB:987:C:H2'	23:DB:988:A:O4'	2.04	0.57
23:DB:526:A:N6	23:DB:2626:C:C4'	2.66	0.57
23:DB:2256:G:O2'	43:DW:5:ALA:HB1	2.03	0.57
1:CA:546:A:P	3:CD:68:GLU:HB3	2.44	0.57
23:DB:179:C:H2'	23:DB:180:G:O4'	2.03	0.57
16:CQ:26:ARG:NH2	16:CQ:39:ARG:HG2	2.19	0.57
23:DB:155:A:H2'	23:DB:156:A:H8	1.69	0.57
23:DB:1275:A:C2'	23:DB:1276:A:H5'	2.33	0.57
23:BB:1275:A:C2'	23:BB:1276:A:H5'	2.34	0.57
23:BB:2247:A:H2'	23:BB:2248:C:C6	2.39	0.57
23:DB:962:G:H21	23:DB:2250:G:H1	1.52	0.57
9:CJ:36:VAL:HG13	9:CJ:76:ILE:CD1	2.34	0.57
45:BY:4:ILE:HB	45:BY:39:ASP:HB3	1.86	0.57
1:AA:1039:G:H2'	1:AA:1040:U:C6	2.39	0.57
23:BB:2339:C:H2'	23:BB:2340:A:H8	1.69	0.57
23:BB:208:C:H2'	23:BB:209:C:H6	1.69	0.57
23:DB:660:C:H2'	23:DB:661:A:H8	1.68	0.57
23:BB:1123:C:H2'	23:BB:1124:G:H8	1.69	0.57
23:BB:2553:G:H2'	23:BB:2554:U:C4'	2.34	0.57
23:DB:1739:A:H2'	23:DB:1740:G:C8	2.40	0.57
23:DB:1709:U:H2'	23:DB:1710:G:H8	1.68	0.57
2:AC:59:PRO:HG2	2:AC:60:ALA:H	1.69	0.57
1:CA:1496:C:H4'	23:DB:1920:C:O2'	2.04	0.57
1:CA:688:G:H5'	10:CK:48:GLY:HA2	1.85	0.57
7:CH:93:LYS:HG2	7:CH:96:ALA:HA	1.84	0.57
37:DP:25:VAL:HG12	37:DP:27:VAL:N	2.18	0.57
42:DU:38:ILE:HG13	42:DU:62:ALA:HB1	1.87	0.57
37:BP:25:VAL:HG23	37:BP:49:ILE:HD11	1.84	0.57
30:DH:26:ALA:HB3	30:DH:31:VAL:CG2	2.33	0.57
27:BE:128:ALA:CB	27:BE:129:PRO:CD	2.81	0.57
23:DB:301:G:H3'	23:DB:335:C:OP2	2.04	0.57
50:B3:24:LYS:NZ	50:B3:29:ARG:HH22	2.02	0.57
46:DZ:55:GLY:HA2	46:DZ:59:ARG:HD2	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:58:VAL:HG12	41:DT:59:ASN:H	1.69	0.57
45:DY:18:LYS:CD	45:DY:18:LYS:H	2.11	0.57
27:BE:120:VAL:H	27:BE:189:THR:CG2	2.17	0.57
18:CS:22:VAL:HG22	18:CS:42:ASN:OD1	2.04	0.57
26:BD:2:ILE:HG12	26:BD:203:VAL:O	2.04	0.57
26:DD:174:SER:C	26:DD:175:LEU:HD12	2.25	0.57
26:DD:22:ILE:HG23	26:DD:191:GLY:N	2.19	0.57
32:DK:76:VAL:HB	37:DP:74:GLN:NE2	2.17	0.57
23:DB:1082:U:C2	23:DB:1086:A:C6	2.92	0.57
42:DU:23:LYS:C	42:DU:25:LYS:HD2	2.24	0.57
2:AC:77:GLY:HA3	2:AC:81:GLU:HB3	1.87	0.57
49:D2:12:ARG:HH21	49:D2:16:HIS:HB2	1.69	0.57
47:B0:52:LYS:HZ3	47:B0:52:LYS:HA	1.68	0.57
10:CK:12:ARG:HB3	10:CK:13:LYS:NZ	2.19	0.57
23:DB:582:A:H2'	23:DB:583:G:H8	1.68	0.57
1:CA:552:U:H2'	1:CA:553:A:H8	1.70	0.57
23:BB:346:A:H2'	23:BB:347:A:O4'	2.04	0.57
4:CE:72:ASN:N	4:CE:72:ASN:HD22	2.01	0.57
1:CA:441:A:H61	1:CA:493:A:N6	2.02	0.57
1:CA:1057:G:O3'	2:CC:196:GLY:HA3	2.04	0.57
23:DB:2590:A:H2'	23:DB:2591:C:C6	2.40	0.57
23:DB:182:A:H2'	23:DB:183:C:C6	2.39	0.57
23:DB:230:G:H2'	23:DB:231:A:C8	2.39	0.57
36:DO:90:VAL:HG13	36:DO:116:GLN:H	1.68	0.57
3:CD:115:GLN:NE2	3:CD:153:ARG:HH22	2.03	0.57
43:BW:49:ASN:HB2	43:BW:53:GLY:CA	2.34	0.57
23:BB:1560:G:H2'	23:BB:1561:C:H6	1.70	0.57
9:AJ:15:HIS:HD2	9:AJ:18:ILE:HG22	1.69	0.57
44:DX:55:THR:HG22	44:DX:56:LEU:H	1.69	0.57
23:BB:2352:A:H2'	23:BB:2353:G:O4'	2.04	0.57
1:AA:335:C:H2'	1:AA:336:A:C8	2.39	0.57
8:AI:10:ARG:HB2	8:AI:14:SER:O	2.04	0.57
1:CA:114:U:O2'	1:CA:115:G:H5'	2.04	0.57
23:BB:404:A:H4'	23:BB:405:U:H5'	1.87	0.57
23:DB:72:U:O2'	23:DB:73:A:H5'	2.04	0.57
1:CA:1461:G:H2'	1:CA:1462:C:C6	2.39	0.57
31:BJ:25:LEU:N	31:BJ:25:LEU:HD13	2.19	0.57
36:BO:40:ILE:H	36:BO:40:ILE:HD13	1.69	0.57
23:DB:2617:U:C2'	23:DB:2618:G:H5'	2.35	0.57
23:DB:536:G:H5''	38:DQ:52:ARG:NH2	2.20	0.57
39:DR:80:ARG:CZ	39:DR:85:LYS:HB3	2.34	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:24:LYS:HZ3	50:B3:29:ARG:NH2	2.02	0.57
1:AA:450:G:N7	1:AA:481:G:O6	2.37	0.57
24:BV:80:HIS:N	24:BV:87:GLN:HE22	2.02	0.57
23:DB:2376:A:N3	36:DO:111:ARG:NH2	2.52	0.57
23:DB:849:A:H2'	23:DB:850:U:C6	2.40	0.57
35:BN:29:VAL:HG21	35:BN:75:ILE:HD11	1.86	0.57
1:CA:265:G:H2'	1:CA:267:C:H5	1.69	0.57
41:BT:10:VAL:O	41:BT:34:VAL:HG13	2.05	0.57
23:DB:2053:G:H5'	26:DD:149:ASN:O	2.04	0.57
51:D4:16:ILE:HG23	51:D4:18:LYS:H	1.69	0.57
23:DB:2283:C:H5''	23:DB:2389:G:O2'	2.04	0.57
26:BD:2:ILE:HB	26:BD:205:PRO:HD3	1.85	0.57
23:BB:727:A:OP1	23:BB:1431:A:O2'	2.21	0.57
6:AG:14:ASP:OD2	6:AG:22:LEU:HD12	2.04	0.57
52:DI:27:LEU:HD23	52:DI:27:LEU:N	2.15	0.57
33:DL:30:THR:HG21	33:DL:38:GLN:NE2	2.20	0.57
35:BN:10:LEU:H	35:BN:17:ARG:NH1	2.02	0.57
1:AA:950:U:H2'	1:AA:951:G:C8	2.39	0.57
23:DB:877:A:H2	23:DB:900:A:N7	2.02	0.57
30:DH:113:SER:HB2	30:DH:132:PHE:HZ	1.69	0.57
22:BA:50:A:H5''	36:BO:68:LYS:CD	2.33	0.57
34:BM:108:VAL:N	34:BM:109:PRO:HD3	2.19	0.57
4:CE:73:VAL:HG21	4:CE:143:LEU:O	2.04	0.57
1:AA:1260:G:H4'	1:AA:1284:C:H5'	1.86	0.57
3:AD:55:ARG:HH21	3:AD:58:GLN:NE2	2.02	0.57
40:BS:18:ARG:NH1	40:BS:25:ARG:HH22	2.02	0.57
1:CA:411:A:C4	1:CA:413:G:H1'	2.40	0.57
29:BG:84:LYS:HZ2	29:BG:85:LYS:H	1.50	0.57
23:BB:2307:G:H4'	23:BB:2311:A:H61	1.68	0.57
1:CA:383:A:H2'	1:CA:384:G:O4'	2.05	0.57
1:AA:187:G:H4'	19:AT:79:THR:HG21	1.86	0.57
1:AA:1508:A:H2'	1:AA:1509:C:H6	1.69	0.57
23:BB:15:G:O2'	23:BB:16:C:H5'	2.05	0.57
23:DB:2819:G:H2'	23:DB:2821:A:N7	2.19	0.57
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.69	0.57
23:DB:196:A:H2'	23:DB:196:A:N3	2.19	0.57
14:CO:53:ARG:HG2	14:CO:53:ARG:HH11	1.68	0.57
23:DB:1932:A:H2'	23:DB:1933:G:O4'	2.04	0.57
23:DB:2869:G:H2'	23:DB:2870:C:C6	2.40	0.57
37:DP:47:ILE:CG2	37:DP:48:ALA:H	2.03	0.57
42:BU:78:LYS:HG3	42:BU:96:LYS:HE3	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:48:THR:HG22	27:BE:49:ARG:N	2.14	0.57
51:D4:26:ILE:O	51:D4:27:CYS:CB	2.52	0.57
36:DO:18:LEU:HD21	36:DO:43:ASN:ND2	2.19	0.57
43:DW:55:ASP:CG	43:DW:56:HIS:H	2.08	0.57
31:BJ:25:LEU:HG	31:BJ:63:ALA:H	1.69	0.57
23:BB:918:A:C2'	23:BB:919:U:H5'	2.34	0.57
36:BO:17:LYS:HE3	36:BO:43:ASN:HB2	1.86	0.57
1:AA:1320:C:H41	18:AS:36:ARG:CG	2.18	0.57
23:DB:2085:U:O2'	23:DB:2086:U:H5'	2.05	0.57
34:BM:11:LYS:O	34:BM:12:MET:HE2	2.03	0.57
34:BM:34:LYS:HD3	34:BM:98:PRO:O	2.04	0.57
24:DV:4:ILE:N	24:DV:4:ILE:HD12	2.19	0.57
34:DM:5:LYS:HA	34:DM:68:PHE:CE1	2.40	0.57
13:AN:66:THR:HG23	13:AN:67:GLY:H	1.69	0.57
27:BE:108:ILE:HG21	27:BE:116:ASP:OD2	2.04	0.57
27:BE:116:ASP:O	27:BE:117:ARG:HB3	2.05	0.57
33:DL:81:ASP:HA	33:DL:84:LYS:HB3	1.86	0.57
41:BT:3:ARG:HD3	41:BT:3:ARG:C	2.23	0.57
3:CD:58:GLN:O	3:CD:62:ARG:HG2	2.04	0.57
48:B1:15:GLY:N	48:B1:47:ILE:HD12	2.19	0.57
33:DL:118:THR:O	33:DL:119:PRO:C	2.39	0.57
42:DU:12:VAL:HG11	42:DU:17:ASP:HB3	1.87	0.57
23:BB:285:G:O2'	23:BB:286:U:H5'	2.05	0.57
23:BB:264:C:O2'	23:BB:265:A:H5''	2.05	0.57
1:CA:238:A:C2'	1:CA:239:U:H5''	2.31	0.57
24:BV:84:PRO:HG3	34:BM:127:LYS:NZ	2.19	0.57
52:DI:45:THR:HA	52:DI:48:ILE:CG2	2.33	0.57
21:CU:41:THR:CA	21:CU:45:LYS:HD3	2.32	0.57
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.39	0.57
23:DB:1791:A:H5''	25:DC:211:ARG:HE	1.70	0.57
25:BC:76:VAL:O	25:BC:93:VAL:HA	2.04	0.57
23:BB:1438:U:N3	23:BB:1552:A:N6	2.53	0.57
1:CA:972:C:OP1	9:CJ:59:LYS:HD2	2.04	0.57
23:DB:2329:U:H2'	23:DB:2330:G:H8	1.69	0.57
22:DA:59:A:H2'	22:DA:60:C:O4'	2.05	0.57
23:BB:716:A:H2'	23:BB:717:C:O4'	2.03	0.57
9:CJ:36:VAL:HA	9:CJ:76:ILE:HG23	1.87	0.57
9:CJ:37:ARG:HG2	9:CJ:37:ARG:HH11	1.68	0.57
12:CM:48:SER:H	12:CM:51:GLN:NE2	2.03	0.57
28:BF:177:ARG:HE	28:BF:178:LYS:CA	2.17	0.57
43:BW:49:ASN:HD22	43:BW:53:GLY:HA2	1.68	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1878:G:H2'	23:BB:1879:C:H6	1.69	0.57
23:BB:1537:G:H2'	23:BB:1538:G:C4'	2.35	0.57
20:CB:169:HIS:CE1	20:CB:173:LYS:HB2	2.40	0.57
52:DI:37:PHE:CZ	52:DI:58:ILE:HD11	2.39	0.57
23:BB:1505:A:H2'	23:BB:1506:U:C6	2.39	0.57
23:DB:1637:A:H2'	23:DB:1638:C:C6	2.39	0.57
37:DP:27:VAL:HA	37:DP:86:LYS:CE	2.32	0.57
37:BP:62:LYS:HD3	37:BP:72:VAL:HG21	1.87	0.57
36:DO:15:ARG:HH22	43:DW:76:ARG:CD	2.16	0.57
30:DH:6:LEU:HB2	30:DH:35:LYS:HB2	1.85	0.57
25:DC:156:SER:O	25:DC:195:GLY:HA3	2.05	0.57
27:DE:133:LEU:HD22	27:DE:136:GLN:HG3	1.87	0.57
33:BL:78:ARG:NH1	33:BL:110:VAL:HG11	2.20	0.57
23:BB:871:U:H2'	23:BB:872:U:H6	1.68	0.57
34:BM:96:ILE:HD13	34:BM:97:GLN:CG	2.34	0.57
23:DB:2722:G:O2'	35:DN:4:ARG:NE	2.38	0.57
25:DC:179:GLU:CG	25:DC:266:ILE:HA	2.34	0.57
38:BQ:51:GLN:O	38:BQ:54:ARG:HG2	2.05	0.57
27:BE:112:LEU:HB3	27:BE:116:ASP:H	1.69	0.57
51:B4:22:VAL:HG11	51:B4:36:ARG:NH1	2.20	0.57
37:DP:1:SER:HA	37:DP:4:ILE:HB	1.86	0.57
23:BB:548:G:H5''	23:BB:549:G:O4'	2.03	0.57
26:DD:122:VAL:CA	26:DD:128:ARG:HG3	2.33	0.57
34:DM:33:LEU:HD22	34:DM:124:LEU:HD22	1.85	0.57
33:BL:79:LEU:HB3	33:BL:114:GLY:N	2.12	0.57
32:DK:70:ARG:CD	32:DK:76:VAL:HG22	2.33	0.57
38:DQ:111:LYS:NZ	39:DR:52:PRO:HA	2.20	0.57
21:AU:39:LYS:N	21:AU:40:PRO:CD	2.66	0.57
6:AG:14:ASP:H	6:AG:19:SER:H	1.51	0.57
38:DQ:65:ASN:HB2	38:DQ:75:TYR:HB2	1.87	0.57
52:DI:100:ILE:O	52:DI:139:VAL:HA	2.04	0.57
23:BB:1180:U:O2'	23:BB:1181:U:H5'	2.05	0.57
23:DB:1441:G:H2'	23:DB:1442:U:C6	2.40	0.57
23:DB:1309:G:C4'	49:D2:7:PRO:HB2	2.34	0.57
4:AE:81:GLN:HE22	4:AE:82:HIS:CE1	2.23	0.57
1:AA:1283:U:H2'	1:AA:1284:C:C6	2.40	0.57
23:DB:453:A:H4'	23:DB:472:A:H61	1.69	0.57
1:AA:1074:G:H5'	20:AB:104:LYS:NZ	2.19	0.57
1:AA:411:A:C4	1:AA:413:G:H1'	2.40	0.57
29:DG:124:CYS:HB3	29:DG:130:ILE:HD13	1.87	0.57
1:AA:202:G:H2'	1:AA:203:G:H8	1.70	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:71:A:N1	1:AA:99:C:H1'	2.19	0.57
23:DB:2105:U:H2'	23:DB:2106:U:H6	1.68	0.57
30:DH:96:THR:HG23	30:DH:97:ARG:H	1.68	0.57
16:AQ:7:LEU:HD13	16:AQ:24:ILE:HG12	1.87	0.57
40:DS:87:PRO:O	40:DS:93:ALA:HA	2.05	0.57
18:AS:11:ASP:H	18:AS:37:SER:HB3	1.68	0.57
23:BB:2083:G:H2'	23:BB:2084:C:H6	1.69	0.57
23:DB:1505:A:H2'	23:DB:1506:U:C6	2.39	0.57
23:BB:1637:A:H2'	23:BB:1638:C:C6	2.40	0.57
33:DL:133:ALA:O	33:DL:136:GLU:HB2	2.04	0.57
28:DF:120:SER:HB3	28:DF:127:TYR:CE1	2.40	0.57
23:DB:2480:C:O2'	23:DB:2481:G:H5'	2.03	0.57
23:DB:1464:G:H2'	23:DB:1465:G:H8	1.68	0.57
27:BE:24:ASN:O	27:BE:24:ASN:CG	2.43	0.57
22:DA:113:C:O2'	36:DO:47:VAL:HA	2.04	0.57
43:DW:42:THR:HG23	43:DW:66:VAL:N	2.18	0.57
35:DN:35:LYS:HE3	35:DN:110:MET:HB3	1.86	0.57
27:DE:109:LEU:HG	27:DE:117:ARG:CD	2.34	0.57
23:BB:632:A:H2'	23:BB:633:A:C8	2.40	0.57
46:BZ:50:ASP:HA	46:BZ:53:THR:HG22	1.86	0.57
24:BV:44:HIS:NE2	24:BV:85:LYS:HB2	2.19	0.57
41:DT:3:ARG:HB3	41:DT:5:GLU:OE2	2.04	0.57
40:BS:6:LYS:HA	40:BS:104:THR:CA	2.28	0.57
43:BW:36:ILE:O	43:BW:36:ILE:HG22	2.05	0.57
51:B4:33:HIS:HD2	51:B4:33:HIS:H	1.51	0.57
10:AK:95:THR:HG23	10:AK:96:ILE:N	2.19	0.57
33:DL:109:LYS:HA	33:DL:127:VAL:H	1.69	0.57
23:BB:2819:G:H2'	23:BB:2821:A:N7	2.19	0.57
5:CF:38:ARG:NH2	5:CF:96:VAL:HB	2.20	0.57
44:DX:17:GLU:HA	44:DX:21:LEU:HB2	1.85	0.57
23:BB:2650:U:H2'	23:BB:2651:C:H6	1.69	0.57
25:DC:53:ILE:HD13	25:DC:218:THR:HG23	1.87	0.57
13:CN:40:ARG:HG3	18:CS:6:LYS:O	2.05	0.57
31:DJ:89:PHE:HD1	31:DJ:92:MET:HG3	1.68	0.57
15:CP:54:LEU:HD22	15:CP:80:LYS:HZ2	1.70	0.57
28:BF:68:LYS:HA	28:BF:83:PRO:HA	1.86	0.57
45:DY:10:ARG:O	45:DY:11:SER:HB3	2.04	0.57
8:AI:107:ALA:O	8:AI:109:GLN:HG2	2.05	0.57
2:AC:21:TRP:HB3	2:AC:58:ARG:HB2	1.86	0.57
23:BB:2882:A:H2'	23:BB:2883:A:H5''	1.86	0.57
7:CH:101:ALA:O	7:CH:103:VAL:HG23	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:973:G:H3'	1:AA:974:A:H5''	1.87	0.57
10:AK:69:CYS:C	10:AK:71:ASP:H	2.06	0.57
23:BB:519:U:H5''	40:BS:18:ARG:NH2	2.20	0.57
1:AA:413:G:H4'	1:AA:414:A:H5''	1.85	0.57
3:AD:25:ARG:HH11	3:AD:30:LYS:HE3	1.69	0.57
41:BT:64:LYS:HB3	41:BT:77:ARG:HD3	1.87	0.57
29:DG:163:TYR:HB2	29:DG:166:GLU:HG3	1.85	0.57
23:BB:1220:G:H2'	23:BB:1221:C:C6	2.40	0.57
23:DB:1381:G:O2'	23:DB:1382:G:H5'	2.05	0.57
1:AA:1179:A:H4'	8:AI:104:THR:HA	1.86	0.57
23:DB:1722:A:H61	23:DB:1738:G:H1'	1.69	0.57
20:AB:102:ASN:O	20:AB:106:VAL:HG23	2.04	0.57
1:CA:384:G:H2'	1:CA:385:C:H6	1.68	0.57
36:DO:83:LEU:HA	36:DO:87:ILE:HD12	1.87	0.57
23:DB:2455:G:H2'	23:DB:2456:C:H6	1.70	0.57
1:CA:1175:G:O2'	1:CA:1176:A:H5'	2.04	0.57
4:CE:142:GLY:HA2	4:CE:145:ASN:HD22	1.70	0.57
23:DB:1729:U:H2'	23:DB:1730:C:H4'	1.87	0.57
23:BB:2872:A:O2'	23:BB:2873:A:H5''	2.05	0.57
22:DA:112:G:O2'	22:DA:113:C:H5'	2.04	0.57
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.69	0.57
23:DB:1400:U:H2'	23:DB:1401:G:H8	1.70	0.57
23:DB:2352:A:H2'	23:DB:2353:G:O4'	2.04	0.57
24:DV:82:TYR:HE1	24:DV:83:LYS:HE3	1.70	0.57
1:AA:114:U:O2'	1:AA:115:G:H5'	2.04	0.57
11:AL:34:THR:HB	11:AL:53:ARG:HB2	1.87	0.57
32:BK:53:LYS:HE2	32:BK:56:ASP:OD1	2.04	0.57
1:AA:85:U:H4'	1:AA:86:G:H4'	1.85	0.57
21:AU:11:PHE:HD1	21:AU:11:PHE:O	1.86	0.57
23:DB:1842:G:H2'	23:DB:1843:C:H6	1.70	0.57
23:DB:558:U:P	31:DJ:113:PRO:HB2	2.45	0.57
23:DB:1100:C:OP2	52:DI:2:LYS:HB3	2.05	0.57
42:BU:11:ILE:HB	42:BU:69:VAL:CB	2.35	0.57
51:D4:24:ARG:HH21	51:D4:37:GLN:HB2	1.69	0.57
43:DW:24:ARG:HB3	43:DW:59:PHE:CD2	2.39	0.57
25:DC:62:ARG:O	25:DC:63:ILE:HB	2.05	0.57
36:BO:17:LYS:HE2	43:BW:77:LYS:CD	2.35	0.57
38:DQ:48:ASP:CA	38:DQ:51:GLN:HE21	2.06	0.57
38:BQ:32:ARG:O	38:BQ:36:GLN:HB2	2.05	0.57
23:DB:1198:U:H2'	23:DB:1199:U:C6	2.39	0.57
23:DB:1198:U:H2'	23:DB:1199:U:H6	1.70	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:165:A:H2'	23:DB:166:U:H6	1.69	0.57
28:DF:36:ASN:HB2	28:DF:87:LYS:HA	1.87	0.57
5:AF:3:HIS:HB2	5:AF:92:THR:CB	2.35	0.57
23:BB:643:A:H61	23:BB:2370:G:H1'	1.68	0.57
52:DI:32:VAL:HG22	52:DI:60:VAL:CG2	2.34	0.57
1:AA:1101:A:H61	20:AB:173:LYS:HD2	1.70	0.57
9:AJ:42:LEU:HB2	9:AJ:71:LEU:HD13	1.85	0.57
23:BB:2270:A:H4'	43:BW:18:LYS:CB	2.35	0.57
1:CA:1414:U:H2'	1:CA:1415:G:H8	1.69	0.57
27:BE:52:VAL:C	27:BE:54:GLY:H	2.08	0.57
23:DB:170:U:H2'	23:DB:171:U:C6	2.39	0.57
1:AA:537:G:H5''	11:AL:109:ARG:HH11	1.69	0.57
23:BB:2455:G:H2'	23:BB:2456:C:H6	1.70	0.57
23:DB:1946:U:H2'	23:DB:1947:C:H6	1.69	0.57
23:BB:127:A:H5''	23:BB:128:C:C6	2.40	0.57
23:DB:506:G:H4'	23:DB:509:C:O2	2.05	0.57
8:AI:113:LYS:HA	8:AI:120:ALA:HB2	1.87	0.57
23:DB:2902:C:O2'	23:DB:2903:U:H4'	2.05	0.57
23:DB:2378:A:H2'	23:DB:2379:G:H5'	1.85	0.57
28:BF:44:ALA:HB1	28:BF:48:LEU:HD12	1.86	0.57
1:AA:1081:A:O2'	1:AA:1082:A:H5'	2.05	0.57
42:BU:79:ALA:O	42:BU:96:LYS:HA	2.04	0.57
42:BU:9:GLU:HA	42:BU:23:LYS:HA	1.86	0.57
26:BD:193:VAL:HG13	26:BD:193:VAL:O	2.03	0.57
32:BK:70:ARG:CB	32:BK:76:VAL:HG22	2.31	0.57
37:BP:55:HIS:O	37:BP:57:ALA:N	2.38	0.57
37:BP:62:LYS:HE3	37:BP:74:GLN:NE2	2.19	0.57
25:BC:143:VAL:HG12	25:BC:144:GLU:N	2.14	0.57
18:AS:28:LYS:HB2	18:AS:29:PRO:HD2	1.87	0.57
23:DB:1853:A:N1	23:DB:2087:G:H1'	2.19	0.57
20:AB:66:ILE:C	20:AB:67:LEU:HD13	2.25	0.57
38:BQ:50:ARG:HG3	38:BQ:53:LYS:NZ	2.20	0.57
38:DQ:69:ARG:HH11	38:DQ:69:ARG:CB	2.16	0.57
38:BQ:85:ALA:HB1	38:BQ:88:GLU:HB2	1.87	0.57
39:BR:49:ILE:HG22	39:BR:51:VAL:HG23	1.86	0.57
40:BS:1:MET:HB3	40:BS:4:ILE:HG12	1.86	0.57
41:BT:12:ARG:NH2	44:BX:29:ARG:HH12	2.01	0.57
44:BX:29:ARG:N	44:BX:34:SER:HB2	2.19	0.57
24:BV:61:LEU:O	24:BV:71:LYS:HA	2.05	0.57
20:AB:71:THR:CG2	20:AB:94:ARG:HH21	2.18	0.57
10:AK:126:ARG:HB2	21:AU:33:ARG:CD	2.30	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:224:MET:HG3	25:BC:233:GLY:O	2.05	0.57
45:DY:8:GLN:HB2	45:DY:28:LEU:HG	1.87	0.57
8:CI:93:LEU:O	8:CI:97:LEU:HG	2.05	0.57
42:BU:2:ALA:O	42:BU:4:ILE:N	2.37	0.57
35:BN:22:ARG:HG3	35:BN:23:ASN:N	2.17	0.57
20:AB:37:VAL:HG22	20:AB:38:HIS:H	1.68	0.57
7:AH:29:SER:HB3	7:AH:32:LYS:CG	2.35	0.57
23:DB:125:A:H4'	23:DB:126:A:OP2	2.05	0.57
32:DK:24:VAL:HA	32:DK:39:ILE:HD12	1.86	0.57
32:DK:6:THR:O	32:DK:20:MET:HG3	2.05	0.57
39:BR:58:VAL:HG22	39:BR:59:ILE:N	2.17	0.57
28:DF:106:ALA:HB1	28:DF:136:ILE:HG22	1.85	0.57
23:DB:1791:A:C2	23:DB:1829:A:C4'	2.88	0.57
23:DB:544:C:O2'	23:DB:545:U:O5'	2.23	0.57
23:DB:546:U:O2	23:DB:546:U:H5'	2.05	0.57
23:BB:2839:G:H2'	23:BB:2840:C:H6	1.70	0.57
23:BB:459:U:C5'	49:B2:41:ARG:HE	2.16	0.57
1:CA:619:U:H3	3:CD:130:ASN:HD21	1.53	0.57
2:CC:115:VAL:O	2:CC:119:ILE:HG22	2.05	0.57
23:BB:2213:U:C2'	23:BB:2213:U:O2	2.52	0.57
23:DB:962:G:N2	34:DM:81:ARG:HD3	2.20	0.57
1:CA:908:A:H2'	1:CA:909:A:H8	1.70	0.57
1:CA:1134:G:C6	1:CA:1135:U:H1'	2.40	0.57
25:DC:237:ARG:HH11	25:DC:238:ASN:HA	1.69	0.57
23:DB:2234:G:O2'	23:DB:2235:G:H5'	2.04	0.57
23:DB:765:C:H2'	23:DB:766:U:C6	2.40	0.57
2:CC:143:LEU:HD13	2:CC:143:LEU:H	1.70	0.57
1:AA:212:G:H2'	1:AA:213:G:H8	1.68	0.57
23:DB:1211:C:H4'	23:DB:1212:G:OP2	2.04	0.57
23:DB:1537:G:H2'	23:DB:1538:G:C4'	2.35	0.57
23:BB:2567:G:H2'	23:BB:2568:U:C6	2.40	0.57
2:AC:33:ASP:OD2	13:AN:64:ARG:HD3	2.05	0.57
23:BB:49:A:OP1	23:BB:51:G:H5'	2.05	0.57
23:BB:1400:U:H2'	23:BB:1401:G:H8	1.70	0.57
33:BL:129:LYS:O	33:BL:129:LYS:HD3	2.05	0.57
15:AP:25:ARG:HD3	15:AP:25:ARG:N	2.20	0.57
36:BO:60:GLU:HG3	36:BO:61:GLN:H	1.70	0.57
25:DC:163:ILE:HG12	25:DC:173:LEU:HD21	1.87	0.57
36:BO:43:ASN:HA	36:BO:46:GLU:OE2	2.04	0.57
23:BB:2617:U:C2'	23:BB:2618:G:H5'	2.35	0.57
1:AA:265:G:H2'	1:AA:267:C:H5	1.69	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:266:G:HO2'	1:AA:267:C:H3'	1.70	0.57
23:DB:2820:A:C6	26:DD:197:THR:HB	2.40	0.57
23:BB:1155:A:OP1	38:BQ:54:ARG:HD2	2.05	0.57
8:AI:44:ARG:N	8:AI:44:ARG:HH11	2.02	0.57
23:DB:632:A:H2'	23:DB:633:A:C8	2.40	0.57
9:CJ:52:LEU:HG	9:CJ:62:ARG:HE	1.70	0.57
8:CI:56:MET:SD	8:CI:57:VAL:N	2.78	0.57
23:BB:2371:G:O2'	48:B1:44:GLN:HA	2.04	0.57
23:BB:702:U:O2'	23:BB:703:U:H5'	2.05	0.57
52:DI:23:VAL:HG12	52:DI:27:LEU:HD21	1.87	0.57
42:BU:81:ARG:N	42:BU:81:ARG:HD2	2.19	0.57
49:B2:30:VAL:HA	49:B2:33:ARG:HD2	1.87	0.57
23:DB:997:G:C5'	38:DQ:92:LYS:HG3	2.35	0.57
1:AA:784:A:H2'	1:AA:785:G:H8	1.70	0.57
23:DB:796:C:H2'	23:DB:797:G:C8	2.40	0.57
35:DN:73:ASN:HA	35:DN:76:VAL:CG1	2.35	0.57
12:AM:21:ILE:HB	12:AM:24:VAL:HG22	1.87	0.57
2:AC:46:LEU:HD23	2:AC:75:VAL:HG13	1.86	0.57
23:BB:278:A:H2'	23:BB:278:A:N3	2.20	0.57
3:AD:99:ASN:CG	3:AD:103:ARG:HH21	2.07	0.57
31:DJ:117:ALA:C	31:DJ:121:LYS:HZ3	2.09	0.57
1:CA:674:G:H2'	1:CA:675:A:C8	2.40	0.57
8:AI:11:ARG:NH2	8:AI:12:LYS:HE3	2.20	0.57
43:BW:16:GLU:HG2	43:BW:37:VAL:HG22	1.85	0.57
33:DL:55:MET:CB	33:DL:56:PRO:HD3	2.35	0.57
23:BB:1790:C:H4'	25:BC:207:ALA:HB2	1.86	0.57
4:AE:155:LYS:HA	7:AH:65:PHE:CD1	2.40	0.57
23:BB:182:A:H2'	23:BB:183:C:H6	1.70	0.57
20:AB:165:ALA:HB2	20:AB:186:VAL:HG12	1.87	0.57
23:BB:609:A:H2'	23:BB:610:C:O4'	2.05	0.57
1:AA:1225:A:H4'	18:AS:77:ARG:NH2	2.20	0.57
13:AN:17:ASP:HA	13:AN:21:ALA:HB2	1.87	0.57
23:DB:2339:C:H2'	23:DB:2340:A:H8	1.68	0.57
47:B0:24:VAL:O	47:B0:25:THR:HG23	2.05	0.57
1:AA:600:A:OP1	7:AH:88:LYS:HG2	2.04	0.57
3:AD:170:LEU:HD12	3:AD:170:LEU:O	2.05	0.57
27:DE:91:ASP:O	27:DE:92:HIS:HB2	2.05	0.57
1:CA:51:A:O2'	1:CA:52:C:OP2	2.18	0.57
1:AA:993:G:H4'	1:AA:994:A:OP2	2.05	0.57
43:DW:45:HIS:HB2	43:DW:66:VAL:HG11	1.87	0.56
31:BJ:61:LYS:CA	31:BJ:61:LYS:HE2	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:43:LYS:HG2	43:BW:76:ARG:NH2	2.18	0.56
30:BH:2:GLN:N	30:BH:21:VAL:HG12	2.20	0.56
27:DE:149:ILE:HD13	27:DE:186:VAL:CG1	2.32	0.56
46:BZ:25:ARG:HG3	46:BZ:26:SER:H	1.70	0.56
34:BM:101:VAL:O	34:BM:102:LEU:HD12	2.05	0.56
34:BM:41:LEU:HB2	34:BM:93:VAL:CG2	2.35	0.56
16:AQ:56:ASP:HB3	16:AQ:79:GLU:O	2.05	0.56
34:DM:6:ARG:HD2	34:DM:71:LYS:HE3	1.86	0.56
31:BJ:10:THR:HG22	31:BJ:50:THR:N	2.20	0.56
1:CA:1101:A:H61	20:CB:101:THR:HG21	1.70	0.56
23:BB:2329:U:H2'	23:BB:2330:G:C8	2.40	0.56
24:BV:63:ILE:HD11	24:BV:72:VAL:HG21	1.87	0.56
26:DD:69:ALA:HB1	26:DD:92:VAL:CG1	2.33	0.56
27:DE:17:THR:HG23	27:DE:18:THR:H	1.67	0.56
23:DB:2025:C:OP1	26:DD:154:LYS:HE3	2.04	0.56
26:DD:29:VAL:HG22	26:DD:30:GLU:N	2.13	0.56
20:AB:202:ASN:C	20:AB:202:ASN:HD22	2.08	0.56
23:DB:1022:G:N2	23:DB:1142:A:N1	2.53	0.56
1:CA:1330:U:H2'	1:CA:1331:G:O4'	2.05	0.56
17:CR:72:ARG:NH1	17:CR:72:ARG:HB2	2.19	0.56
25:BC:21:PRO:C	25:BC:202:ARG:HD2	2.25	0.56
23:DB:2061:G:H5''	23:DB:2503:A:C2	2.40	0.56
14:CO:76:ARG:O	14:CO:79:ARG:HB2	2.05	0.56
1:CA:784:A:H2'	1:CA:785:G:H8	1.70	0.56
23:BB:1083:U:H1'	23:BB:1086:A:H61	1.70	0.56
23:BB:1754:A:OP1	37:BP:95:LYS:HB2	2.04	0.56
1:CA:673:A:H1'	17:CR:63:TYR:CD1	2.39	0.56
1:CA:940:C:H2'	1:CA:941:G:H8	1.70	0.56
4:AE:108:GLY:H	4:AE:110:MET:HE1	1.69	0.56
23:BB:2443:C:O2'	23:BB:2444:G:H5'	2.05	0.56
28:BF:108:PRO:HA	28:BF:113:PHE:CD1	2.40	0.56
23:BB:1441:G:H2'	23:BB:1442:U:C6	2.40	0.56
23:DB:479:A:H4'	23:DB:479:A:OP1	2.04	0.56
4:AE:92:ARG:HB3	4:AE:127:TYR:HB2	1.87	0.56
1:AA:1342:C:H5'	8:AI:127:SER:HA	1.86	0.56
9:AJ:52:LEU:HB2	13:AN:80:ARG:HD2	1.87	0.56
9:CJ:53:ILE:HG13	13:CN:84:ARG:CZ	2.35	0.56
35:DN:103:ARG:HG2	35:DN:106:ASP:OD2	2.05	0.56
1:AA:441:A:H61	1:AA:493:A:N6	2.03	0.56
23:DB:241:A:O3'	23:DB:242:G:H4'	2.05	0.56
8:AI:23:GLY:O	8:AI:24:ASN:HB2	2.04	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:84:ASN:ND2	3:CD:87:GLU:H	2.02	0.56
23:DB:552:U:O2'	23:DB:553:G:H5'	2.05	0.56
28:DF:163:GLU:HG2	28:DF:166:ARG:CZ	2.35	0.56
49:B2:25:LYS:HE3	49:B2:25:LYS:H	1.68	0.56
52:BI:85:ILE:CD1	52:BI:137:LEU:HD21	2.35	0.56
23:BB:2258:C:OP2	43:BW:3:LYS:HG3	2.05	0.56
48:D1:19:PHE:CE2	48:D1:41:VAL:HG13	2.39	0.56
36:DO:108:ASP:O	36:DO:112:GLU:HG3	2.05	0.56
6:AG:139:ASP:HA	6:AG:142:ARG:HH12	1.70	0.56
23:DB:467:G:O2'	23:DB:468:G:H5'	2.05	0.56
23:BB:1464:G:H2'	23:BB:1465:G:H8	1.68	0.56
23:DB:1560:G:H2'	23:DB:1561:C:H6	1.70	0.56
23:DB:175:G:H2'	23:DB:176:A:C8	2.40	0.56
1:CA:1034:G:H2'	1:CA:1035:A:C8	2.40	0.56
1:CA:1011:C:H2'	1:CA:1012:A:C8	2.40	0.56
2:CC:49:ALA:HB2	2:CC:74:ILE:CG2	2.34	0.56
23:BB:1771:C:H2'	23:BB:1772:A:H8	1.69	0.56
30:DH:37:VAL:O	30:DH:38:PRO:C	2.43	0.56
23:DB:2813:A:H2'	23:DB:2814:A:H8	1.70	0.56
31:BJ:128:ASN:CG	31:BJ:129:GLU:H	2.08	0.56
39:DR:76:LYS:HA	39:DR:91:GLN:H	1.70	0.56
41:DT:76:ARG:HG2	41:DT:77:ARG:N	2.20	0.56
35:BN:46:ARG:O	35:BN:50:PRO:HG2	2.06	0.56
12:AM:53:ASP:OD1	12:AM:56:ARG:HD2	2.05	0.56
27:BE:6:LYS:HG3	27:BE:9:GLN:HB2	1.86	0.56
26:DD:156:PHE:CD1	31:DJ:81:ILE:HG21	2.41	0.56
27:BE:74:LYS:O	27:BE:82:GLY:HA3	2.05	0.56
22:DA:75:G:H5''	24:DV:12:GLN:OE1	2.05	0.56
25:DC:208:GLY:HA2	25:DC:212:TRP:CB	2.35	0.56
13:CN:29:ILE:HG22	13:CN:30:ILE:N	2.20	0.56
1:CA:1329:A:O2'	1:CA:1330:U:H5'	2.05	0.56
23:BB:1081:U:C5'	52:BI:126:ARG:HD2	2.35	0.56
23:BB:2297:A:N6	23:BB:2319:G:C3'	2.59	0.56
23:DB:2285:C:H5	48:D1:7:LYS:HE3	1.70	0.56
23:BB:2813:A:H2'	23:BB:2814:A:H8	1.70	0.56
4:AE:96:GLN:HB3	4:AE:123:LEU:CD1	2.36	0.56
28:DF:4:HIS:O	28:DF:7:TYR:HB3	2.05	0.56
4:AE:104:ILE:HD11	4:AE:114:LEU:HB2	1.87	0.56
4:AE:114:LEU:HD13	4:AE:122:VAL:HG21	1.88	0.56
4:AE:45:VAL:O	4:AE:71:ILE:HG22	2.04	0.56
2:CC:39:ARG:NH2	13:CN:91:GLU:HB3	2.19	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:9:ARG:HB2	9:CJ:99:GLN:H	1.70	0.56
6:CG:29:LEU:HD23	6:CG:104:VAL:HG13	1.87	0.56
23:DB:2250:G:N2	23:DB:2496:C:H4'	2.20	0.56
23:BB:2590:A:H2'	23:BB:2591:C:C6	2.40	0.56
23:BB:1381:G:O2'	23:BB:1382:G:H5'	2.04	0.56
1:AA:21:G:H2'	1:AA:22:G:C8	2.40	0.56
32:BK:5:GLN:HA	32:BK:20:MET:SD	2.46	0.56
12:CM:15:VAL:O	12:CM:19:THR:HG23	2.05	0.56
23:DB:609:A:H2'	23:DB:610:C:O4'	2.05	0.56
27:DE:126:VAL:HG21	27:DE:132:LYS:NZ	2.19	0.56
1:AA:321:A:O2'	1:AA:322:C:H5'	2.05	0.56
1:AA:1452:C:H5'	1:AA:1453:G:C4	2.40	0.56
23:DB:69:C:H2'	23:DB:70:G:C8	2.40	0.56
23:DB:660:C:H2'	23:DB:661:A:C8	2.39	0.56
23:DB:2150:C:H2'	23:DB:2151:U:C6	2.39	0.56
23:DB:1061:U:O4'	23:DB:1070:A:H1'	2.04	0.56
29:DG:6:ALA:HB3	29:DG:7:PRO:HD3	1.87	0.56
5:CF:2:ARG:HH11	5:CF:2:ARG:HB3	1.71	0.56
9:CJ:30:LYS:O	9:CJ:30:LYS:HD3	2.04	0.56
50:B3:4:LYS:NZ	50:B3:59:ALA:H	2.03	0.56
37:DP:90:ALA:N	37:DP:112:ARG:HH21	2.01	0.56
34:BM:3:GLN:N	34:BM:4:PRO:CD	2.63	0.56
23:BB:2869:G:H2'	23:BB:2870:C:C6	2.40	0.56
25:BC:68:ARG:NH2	25:BC:190:THR:HG23	2.20	0.56
23:DB:2882:A:H2'	23:DB:2883:A:H5''	1.86	0.56
23:DB:2898:U:H2'	23:DB:2899:A:H8	1.70	0.56
23:DB:3:U:H2'	23:DB:4:U:H6	1.70	0.56
31:BJ:18:VAL:CG2	31:BJ:56:VAL:HA	2.35	0.56
23:DB:975:A:H5'	39:DR:83:TYR:OH	2.05	0.56
27:DE:190:ALA:HB3	27:DE:193:VAL:HG22	1.86	0.56
33:BL:63:LYS:N	50:B3:24:LYS:HZ2	2.02	0.56
50:B3:44:ARG:CG	50:B3:45:PRO:HD2	2.34	0.56
32:BK:71:ARG:O	32:BK:72:PRO:C	2.44	0.56
24:BV:9:ARG:HH12	24:BV:27:PRO:HA	1.69	0.56
35:DN:4:ARG:HG2	35:DN:5:LYS:N	2.19	0.56
13:AN:60:ARG:NH2	13:AN:62:ARG:HE	2.02	0.56
23:BB:1250:G:H5''	38:BQ:5:ARG:HG2	1.86	0.56
40:DS:46:LEU:O	40:DS:50:VAL:HG13	2.06	0.56
9:AJ:53:ILE:HG23	13:AN:84:ARG:CZ	2.36	0.56
38:BQ:65:ASN:O	38:BQ:69:ARG:HG2	2.06	0.56
5:AF:55:HIS:O	5:AF:56:LYS:HG3	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AM:13:HIS:HB2	12:AM:16:ILE:CG2	2.36	0.56
27:BE:120:VAL:N	27:BE:189:THR:HG22	2.20	0.56
27:BE:148:ILE:H	27:BE:183:PHE:HB3	1.70	0.56
26:DD:201:LEU:O	26:DD:202:ILE:HD12	2.05	0.56
26:DD:8:LYS:CE	37:DP:5:LYS:HG3	2.34	0.56
1:CA:266:G:O2'	1:CA:267:C:H3'	2.06	0.56
33:DL:92:LEU:HD13	33:DL:96:LYS:HG2	1.87	0.56
23:BB:125:A:H4'	49:B2:13:ASN:OD1	2.05	0.56
28:BF:170:ALA:HA	28:BF:173:ASP:OD1	2.04	0.56
1:AA:1506:U:H4'	10:AK:128:VAL:C	2.26	0.56
40:DS:28:LYS:HA	40:DS:31:GLN:NE2	2.19	0.56
21:AU:13:VAL:HG13	21:AU:14:ALA:N	2.12	0.56
26:BD:5:VAL:HB	26:BD:27:ILE:O	2.05	0.56
32:DK:113:MET:CE	32:DK:116:ILE:HD11	2.35	0.56
2:AC:146:LYS:HE3	2:AC:202:PHE:CE2	2.38	0.56
8:CI:78:ILE:O	8:CI:82:ILE:HG13	2.04	0.56
31:DJ:25:LEU:N	31:DJ:25:LEU:HD13	2.20	0.56
27:DE:6:LYS:CD	27:DE:7:ASP:H	2.16	0.56
23:BB:1082:U:C2	23:BB:1086:A:C6	2.93	0.56
23:BB:796:C:H2'	23:BB:797:G:C8	2.40	0.56
39:DR:67:GLY:H	39:DR:98:ILE:HA	1.69	0.56
23:DB:91:A:H1'	23:DB:92:U:C6	2.41	0.56
23:DB:877:A:N6	23:DB:898:C:H2'	2.19	0.56
3:CD:162:GLU:HG3	3:CD:163:GLN:HE21	1.70	0.56
12:CM:106:ARG:N	12:CM:106:ARG:HH11	2.04	0.56
23:BB:328:U:H4'	42:BU:65:GLN:CG	2.35	0.56
35:DN:86:ARG:NH2	35:DN:117:ASP:HA	2.20	0.56
1:AA:429:U:H1'	1:AA:430:A:H5''	1.87	0.56
23:DB:2626:C:O2'	23:DB:2627:G:H5'	2.05	0.56
23:DB:1826:G:H2'	23:DB:1827:U:H6	1.69	0.56
48:B1:9:LYS:HG2	50:B3:34:LYS:HZ3	1.70	0.56
41:BT:68:LYS:NZ	41:BT:73:ARG:HA	2.20	0.56
1:CA:586:C:C2'	1:CA:587:G:H5'	2.36	0.56
9:AJ:55:PRO:O	9:AJ:56:HIS:HB3	2.06	0.56
23:DB:155:A:H2'	23:DB:156:A:C8	2.41	0.56
25:DC:79:ARG:HD2	25:DC:110:LYS:HE2	1.87	0.56
23:DB:351:C:H2'	23:DB:352:A:H8	1.69	0.56
23:DB:171:U:H2'	23:DB:172:A:C8	2.40	0.56
23:DB:172:A:H2'	23:DB:173:A:H8	1.70	0.56
28:DF:163:GLU:HA	28:DF:166:ARG:HD2	1.87	0.56
1:AA:674:G:H2'	1:AA:675:A:C8	2.40	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:677:U:H2'	1:AA:678:U:H6	1.70	0.56
23:DB:234:U:O2'	23:DB:235:U:H5'	2.04	0.56
23:BB:1076:C:H4'	52:BI:94:LYS:HZ2	1.70	0.56
23:DB:1381:G:H2'	23:DB:1382:G:H5'	1.86	0.56
1:CA:981:U:H2'	1:CA:982:U:C5	2.40	0.56
23:DB:2233:U:H2'	23:DB:2234:G:H8	1.69	0.56
28:BF:116:LEU:HD12	28:BF:176:PHE:CD2	2.40	0.56
6:CG:55:LYS:HG3	6:CG:56:SER:H	1.70	0.56
1:AA:384:G:H2'	1:AA:385:C:H6	1.69	0.56
25:BC:174:ARG:HG3	25:BC:180:MET:SD	2.44	0.56
1:AA:1040:U:H2'	1:AA:1041:G:C8	2.40	0.56
23:DB:1917:U:O2'	23:DB:1918:A:H5'	2.06	0.56
17:AR:41:SER:HB2	17:AR:51:GLN:HG2	1.87	0.56
23:BB:1729:U:H2'	23:BB:1730:C:H4'	1.87	0.56
1:CA:477:C:H2'	1:CA:478:A:C8	2.41	0.56
1:AA:477:C:H2'	1:AA:478:A:C8	2.41	0.56
23:BB:1709:U:H2'	23:BB:1710:G:C8	2.41	0.56
23:DB:1709:U:H2'	23:DB:1710:G:C8	2.40	0.56
2:AC:33:ASP:HB2	13:AN:64:ARG:HD3	1.86	0.56
23:BB:1528:A:H2'	23:BB:1529:G:O4'	2.06	0.56
23:DB:131:A:H2'	23:DB:132:G:H8	1.70	0.56
23:BB:1695:G:H1'	25:BC:14:HIS:O	2.05	0.56
23:DB:1327:A:H2'	23:DB:1328:A:O4'	2.06	0.56
23:DB:17:G:H2'	23:DB:18:U:C6	2.40	0.56
1:AA:218:U:H2'	1:AA:219:U:C6	2.40	0.56
28:DF:79:ARG:HB2	28:DF:82:TYR:CE2	2.40	0.56
19:CT:57:VAL:HG12	19:CT:71:ALA:HB1	1.86	0.56
28:DF:3:LEU:O	28:DF:3:LEU:HD23	2.05	0.56
23:DB:527:C:O2	23:DB:527:C:O4'	2.21	0.56
23:DB:2872:A:O2'	23:DB:2873:A:H5''	2.05	0.56
23:DB:490:C:H3'	23:DB:491:G:H5''	1.87	0.56
10:AK:25:SER:HB3	10:AK:28:ASN:O	2.06	0.56
1:AA:930:C:H2'	1:AA:931:C:O4'	2.05	0.56
29:BG:132:LEU:HD11	29:BG:144:ALA:HB2	1.88	0.56
3:CD:192:ALA:HB3	3:CD:194:ILE:HG22	1.87	0.56
27:BE:28:VAL:O	27:BE:32:VAL:HG23	2.06	0.56
26:BD:201:LEU:N	26:BD:201:LEU:HD12	2.19	0.56
5:AF:100:SER:HA	17:AR:23:LYS:NZ	2.19	0.56
23:DB:1661:G:O2'	23:DB:1662:U:H5'	2.05	0.56
23:DB:2140:G:H2'	23:DB:2141:G:O4'	2.04	0.56
23:DB:1771:C:H2'	23:DB:1772:A:H8	1.69	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BH:80:ILE:HD12	30:BH:102:ALA:HB2	1.88	0.56
23:DB:2262:U:OP2	43:DW:13:ARG:HD3	2.04	0.56
43:DW:38:ARG:HG3	43:DW:39:GLN:N	2.21	0.56
25:DC:128:THR:HA	25:DC:190:THR:HA	1.86	0.56
31:BJ:16:TYR:O	31:BJ:55:ILE:HG22	2.04	0.56
31:BJ:58:ASN:HA	31:BJ:127:GLY:N	2.21	0.56
23:DB:323:C:C1'	27:DE:164:LEU:HB3	2.25	0.56
33:BL:119:PRO:O	33:BL:119:PRO:HD2	2.05	0.56
33:BL:80:SER:O	33:BL:116:VAL:HA	2.06	0.56
23:DB:2090:A:O2'	46:DZ:49:ARG:CD	2.53	0.56
34:BM:33:LEU:HB2	34:BM:101:VAL:CG2	2.35	0.56
23:BB:2022:U:O2'	23:BB:2617:U:H5'	2.06	0.56
23:BB:2053:G:H5''	26:BD:150:GLN:HA	1.86	0.56
38:BQ:34:ALA:O	38:BQ:38:VAL:HG12	2.06	0.56
39:BR:85:LYS:C	39:BR:87:GLN:H	2.09	0.56
23:DB:144:A:H8	23:DB:144:A:O5'	1.89	0.56
25:DC:179:GLU:HB3	25:DC:266:ILE:HA	1.88	0.56
38:BQ:79:ILE:HA	38:BQ:82:LEU:HD12	1.87	0.56
1:CA:1314:C:OP2	18:CS:5:LYS:HG2	2.05	0.56
23:BB:2147:A:H5'	23:BB:2148:G:H4'	1.87	0.56
21:AU:38:GLU:C	21:AU:40:PRO:HD2	2.26	0.56
52:DI:24:GLY:HA2	52:DI:34:ILE:HD12	1.86	0.56
28:DF:174:PHE:H	28:DF:175:PRO:CD	2.19	0.56
6:AG:114:SER:C	6:AG:118:ARG:HG3	2.26	0.56
28:BF:83:PRO:HG2	28:BF:84:ILE:H	1.71	0.56
42:DU:25:LYS:O	42:DU:34:ILE:HG12	2.06	0.56
23:DB:876:C:H3'	23:DB:877:A:O4'	2.06	0.56
20:CB:78:ALA:HB1	20:CB:213:LEU:HD13	1.87	0.56
1:AA:77:A:H2'	1:AA:78:A:C8	2.40	0.56
31:BJ:7:LYS:HZ3	31:BJ:48:VAL:HB	1.70	0.56
50:B3:34:LYS:C	50:B3:35:LYS:HD3	2.25	0.56
1:CA:815:A:H62	1:CA:1509:C:H1'	1.70	0.56
23:BB:458:G:H5''	49:B2:39:ARG:O	2.04	0.56
48:B1:53:ILE:HD13	48:B1:54:LYS:H	1.70	0.56
1:AA:499:A:H4'	1:AA:500:G:OP1	2.06	0.56
50:D3:4:LYS:HE3	50:D3:61:LEU:HD13	1.88	0.56
39:BR:66:HIS:H	39:BR:98:ILE:HD13	1.70	0.56
20:AB:76:SER:HA	20:AB:92:ASN:HB2	1.87	0.56
1:CA:474:G:H2'	1:CA:475:C:C6	2.40	0.56
50:B3:41:ARG:NH1	50:B3:42:HIS:HB3	2.20	0.56
23:BB:1459:G:C2'	23:BB:1460:U:H5'	2.35	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:962:G:H21	23:BB:2250:G:H1	1.53	0.56
23:BB:1351:C:O2'	23:BB:1571:A:H1'	2.06	0.56
23:BB:189:G:OP1	46:BZ:24:ILE:HD12	2.05	0.56
22:BA:26:C:H2'	22:BA:27:C:O4'	2.06	0.56
23:BB:1938:A:O2'	23:BB:1939:U:H5''	2.06	0.56
20:AB:195:VAL:HG12	20:AB:197:PHE:H	1.70	0.56
1:AA:301:G:H2'	1:AA:302:G:H8	1.71	0.56
26:DD:56:LYS:HB3	26:DD:56:LYS:HZ2	1.69	0.56
23:BB:1061:U:O4'	23:BB:1070:A:H1'	2.05	0.56
6:CG:49:LEU:C	6:CG:51:GLN:H	2.07	0.56
10:CK:22:ILE:HD13	10:CK:95:THR:HG23	1.87	0.56
15:CP:52:LEU:HD21	15:CP:74:LEU:HB2	1.87	0.56
23:BB:682:G:H5'	49:B2:26:ASN:CG	2.25	0.56
1:CA:1470:U:O2'	1:CA:1471:U:H5'	2.05	0.56
19:AT:82:ILE:HG13	19:AT:83:ASN:N	2.20	0.56
37:DP:28:LYS:HD3	37:DP:44:GLY:CA	2.33	0.56
20:AB:163:ILE:CG2	20:AB:164:ASP:H	1.96	0.56
23:DB:2527:C:H1'	51:D4:1:MET:HG3	1.87	0.56
23:BB:2729:G:H2'	23:BB:2730:C:C6	2.41	0.56
37:BP:47:ILE:HG23	37:BP:63:ILE:HG13	1.88	0.56
36:DO:15:ARG:NH1	43:DW:76:ARG:HE	2.03	0.56
25:DC:156:SER:O	25:DC:158:GLY:N	2.39	0.56
18:AS:48:ILE:N	18:AS:48:ILE:HD12	2.21	0.56
27:DE:184:ASP:CB	33:DL:13:LYS:HE3	2.36	0.56
33:BL:118:THR:N	33:BL:119:PRO:CD	2.66	0.56
34:BM:41:LEU:HG	34:BM:95:LEU:HD12	1.86	0.56
34:BM:96:ILE:HD13	34:BM:97:GLN:N	2.21	0.56
38:BQ:50:ARG:O	38:BQ:53:LYS:HD3	2.05	0.56
31:DJ:7:LYS:HD2	31:DJ:45:THR:CB	2.35	0.56
37:BP:80:VAL:O	37:BP:80:VAL:HG13	2.05	0.56
23:BB:535:G:O2'	38:BQ:52:ARG:HD3	2.05	0.56
23:DB:287:G:H2'	23:DB:288:U:C6	2.40	0.56
23:DB:2360:G:O2'	33:DL:61:LEU:HD21	2.06	0.56
1:CA:764:C:H2'	1:CA:765:G:H5'	1.88	0.56
26:DD:159:LYS:O	26:DD:160:LYS:HB2	2.05	0.56
1:CA:1313:U:P	18:CS:5:LYS:HA	2.46	0.56
23:DB:2729:G:H2'	23:DB:2730:C:C6	2.41	0.56
6:AG:22:LEU:O	6:AG:25:PHE:HB3	2.06	0.56
19:AT:61:ALA:HA	19:AT:66:ILE:O	2.05	0.56
14:AO:63:ARG:HA	14:AO:66:LEU:HD12	1.87	0.56
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DU:21:ARG:HG3	42:DU:21:ARG:HH11	1.70	0.56
36:BO:8:ILE:HG23	36:BO:9:ARG:N	2.20	0.56
41:DT:34:VAL:HG21	41:DT:43:ILE:CD1	2.33	0.56
23:BB:2:G:O2'	23:BB:3:U:H5'	2.05	0.56
23:DB:2798:U:H1'	23:DB:2800:A:N6	2.20	0.56
1:AA:1470:U:O2'	1:AA:1471:U:H5'	2.06	0.56
23:BB:597:G:H4'	33:BL:21:ARG:NE	2.18	0.56
3:AD:117:VAL:O	3:AD:130:ASN:HA	2.05	0.56
1:AA:1463:U:H2'	1:AA:1464:U:C6	2.40	0.56
46:DZ:41:HIS:ND1	46:DZ:42:PRO:HD2	2.20	0.56
23:BB:2840:C:H5''	35:BN:53:THR:CG2	2.36	0.56
1:CA:429:U:H1'	1:CA:430:A:H5''	1.87	0.56
38:BQ:22:GLY:O	38:BQ:24:TYR:N	2.39	0.56
23:BB:1826:G:H2'	23:BB:1827:U:H6	1.70	0.56
23:BB:1842:G:H2'	23:BB:1843:C:H6	1.70	0.56
29:BG:70:LEU:HD12	29:BG:74:MET:HE3	1.87	0.56
1:AA:474:G:H2'	1:AA:475:C:C6	2.40	0.56
9:CJ:9:ARG:HB3	9:CJ:99:GLN:HE21	1.70	0.56
1:AA:586:C:C2'	1:AA:587:G:H5'	2.35	0.56
6:CG:2:ARG:HH11	6:CG:2:ARG:CB	2.17	0.56
23:DB:2758:A:O2'	23:DB:2759:G:H5'	2.04	0.56
1:AA:1225:A:H3'	1:AA:1226:C:C6	2.40	0.56
23:BB:851:C:O2'	45:BY:45:GLY:HA3	2.05	0.56
52:BI:10:LEU:HD12	52:BI:10:LEU:O	2.05	0.56
1:CA:1228:C:H5'	12:CM:112:ARG:HB3	1.87	0.56
23:DB:1316:U:O2'	23:DB:1317:G:H5'	2.05	0.56
23:BB:2747:G:O6	23:BB:2755:C:H5''	2.05	0.56
6:AG:91:ARG:HB3	6:AG:92:PRO:HD2	1.88	0.56
23:BB:1661:G:O2'	23:BB:1662:U:H5'	2.05	0.56
1:CA:218:U:H2'	1:CA:219:U:C6	2.40	0.56
23:DB:818:G:H5'	23:DB:839:U:OP1	2.06	0.56
41:BT:96:VAL:HG22	41:BT:97:GLY:N	2.21	0.56
23:BB:1889:A:H2'	23:BB:1890:A:C8	2.41	0.56
23:DB:2600:A:O2'	23:DB:2601:C:H5'	2.05	0.56
27:DE:85:PHE:O	27:DE:86:ALA:HB2	2.06	0.56
31:BJ:102:GLU:HG3	31:BJ:124:VAL:HG11	1.87	0.56
27:BE:128:ALA:O	27:BE:157:LEU:HB2	2.05	0.56
20:AB:53:LEU:HD21	20:AB:212:TYR:HE2	1.70	0.56
27:DE:195:GLN:HB2	27:DE:198:GLU:O	2.06	0.56
23:BB:2052:A:H5'	26:BD:148:GLN:O	2.05	0.56
23:DB:1796:U:OP1	25:DC:269:ARG:HD3	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:9:HIS:O	40:BS:100:THR:HB	2.04	0.56
40:BS:8:ARG:CZ	40:BS:102:HIS:NE2	2.69	0.56
40:BS:47:VAL:O	40:BS:51:LEU:HB2	2.05	0.56
23:BB:988:A:H4'	23:BB:1155:A:N1	2.21	0.56
39:BR:90:ARG:HH22	39:BR:92:TRP:HB3	1.69	0.56
8:AI:38:PHE:O	8:AI:41:GLU:HB2	2.06	0.56
23:BB:1133:A:H4'	23:BB:1134:A:H5''	1.87	0.56
10:CK:78:ILE:CD1	10:CK:78:ILE:H	2.06	0.56
3:CD:106:PHE:CD1	3:CD:158:LEU:HD21	2.41	0.56
10:AK:92:ARG:HH11	10:AK:92:ARG:CB	2.19	0.56
30:DH:82:SER:O	30:DH:83:LYS:HD2	2.05	0.56
33:DL:78:ARG:CZ	33:DL:113:ALA:HB1	2.36	0.56
33:DL:132:ARG:NH1	33:DL:140:GLY:HA2	2.21	0.56
41:BT:40:LYS:HB3	41:BT:58:VAL:HB	1.88	0.56
41:BT:30:ILE:HG22	41:BT:84:TYR:O	2.06	0.56
27:DE:17:THR:HG23	27:DE:18:THR:N	2.21	0.56
24:DV:9:ARG:NH2	24:DV:20:LEU:HD11	2.20	0.56
45:DY:4:ILE:HG12	45:DY:5:LYS:HG3	1.87	0.56
23:DB:1018:U:O2'	23:DB:1019:U:H5'	2.05	0.56
1:CA:1250:A:H5''	8:CI:69:GLY:N	2.21	0.56
23:BB:1754:A:P	37:BP:94:ALA:HB1	2.46	0.56
1:AA:1432:G:H5''	37:BP:106:ALA:HB2	1.88	0.56
1:AA:1468:A:O2'	1:AA:1469:C:H5'	2.05	0.56
23:BB:2798:U:H1'	23:BB:2800:A:N6	2.20	0.56
23:BB:2239:G:H5'	25:BC:246:PRO:HD2	1.87	0.56
29:BG:159:LYS:HG3	29:BG:159:LYS:O	2.05	0.56
1:AA:1310:G:H2'	1:AA:1311:A:O4'	2.06	0.56
3:AD:10:LEU:HD21	3:AD:62:ARG:CD	2.36	0.56
39:BR:66:HIS:HA	39:BR:98:ILE:HD13	1.86	0.56
23:DB:171:U:H2'	23:DB:172:A:H8	1.71	0.56
1:CA:642:A:C5	7:CH:106:SER:HA	2.41	0.56
30:DH:58:LEU:O	30:DH:61:VAL:HG22	2.05	0.56
20:AB:144:GLU:O	20:AB:148:GLY:HA3	2.05	0.56
1:AA:956:U:O2'	1:AA:957:U:H5'	2.06	0.56
25:DC:136:VAL:C	25:DC:138:SER:H	2.09	0.56
23:DB:659:G:H21	27:DE:30:GLN:NE2	2.03	0.56
23:BB:2665:A:O2'	23:BB:2666:C:H5'	2.06	0.56
1:CA:1262:C:H2'	1:CA:1263:C:H6	1.70	0.56
22:BA:90:C:H2'	22:BA:91:C:O4'	2.05	0.56
23:DB:1528:A:H2'	23:DB:1529:G:O4'	2.06	0.56
23:BB:1750:G:O2'	23:BB:1751:U:H5'	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:99:LYS:C	8:AI:99:LYS:HD3	2.26	0.56
1:AA:327:A:H1'	1:AA:329:A:O4'	2.06	0.56
45:BY:13:ILE:HG23	45:BY:19:HIS:HE1	1.70	0.56
23:BB:2586:U:H2'	23:BB:2587:A:C8	2.41	0.56
23:DB:1750:G:O2'	23:DB:1751:U:H5'	2.06	0.56
23:DB:388:G:N7	23:DB:390:U:H2'	2.20	0.56
26:BD:8:LYS:HA	26:BD:197:THR:HG23	1.88	0.56
43:DW:35:ILE:HB	43:DW:67:LYS:NZ	2.20	0.56
23:DB:4:U:O2'	23:DB:5:A:H5'	2.05	0.56
1:AA:449:G:H2'	1:AA:450:G:C8	2.40	0.56
23:BB:2484:G:H1'	34:BM:119:LEU:HD12	1.87	0.56
34:BM:8:LYS:HB2	34:BM:12:MET:HE3	1.87	0.56
25:DC:254:LYS:HD2	25:DC:254:LYS:N	2.21	0.56
35:BN:32:GLU:HB3	35:BN:33:ILE:HD13	1.88	0.56
39:BR:42:ALA:HB1	39:BR:45:GLU:OE2	2.05	0.56
23:BB:2262:U:H2'	23:BB:2263:C:H6	1.71	0.56
43:BW:39:GLN:HG2	43:BW:68:PHE:HB2	1.86	0.56
26:DD:35:THR:HB	26:DD:48:ILE:HG13	1.87	0.56
41:BT:30:ILE:HG23	41:BT:32:LEU:HD13	1.87	0.56
25:DC:224:MET:HA	25:DC:233:GLY:N	2.13	0.56
23:DB:2839:G:H2'	23:DB:2840:C:H6	1.69	0.56
13:CN:41:TRP:O	13:CN:45:LEU:HG	2.06	0.56
35:BN:73:ASN:N	35:BN:73:ASN:HD22	2.03	0.56
26:DD:25:THR:HG22	26:DD:188:LEU:HG	1.88	0.56
32:DK:69:VAL:HG11	32:DK:106:GLU:CD	2.26	0.56
39:DR:6:GLN:HB3	39:DR:41:ILE:CD1	2.36	0.56
28:BF:66:ILE:HA	28:BF:85:GLY:O	2.06	0.56
5:CF:47:LEU:HD22	17:CR:65:SER:OG	2.05	0.56
23:BB:2065:C:H2'	23:BB:2066:C:H6	1.71	0.56
4:AE:87:VAL:HG11	4:AE:92:ARG:HD3	1.87	0.56
6:CG:24:LYS:O	6:CG:28:ILE:HG12	2.06	0.56
23:BB:1971:U:H1'	25:BC:238:ASN:ND2	2.20	0.56
29:DG:125:PRO:HG2	29:DG:129:GLU:HB2	1.88	0.56
29:BG:84:LYS:HA	29:BG:84:LYS:HZ3	1.70	0.56
23:DB:2405:G:H5''	33:DL:70:LYS:HG3	1.86	0.56
11:AL:106:VAL:HG21	11:AL:109:ARG:HG3	1.88	0.56
1:CA:591:U:H2'	1:CA:592:G:H8	1.70	0.56
30:BH:69:ALA:HB2	30:BH:140:ALA:HA	1.86	0.56
23:DB:374:A:H61	23:DB:400:G:H1'	1.68	0.56
23:DB:1878:G:H2'	23:DB:1879:C:H6	1.69	0.56
1:CA:321:A:O2'	1:CA:322:C:H5'	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:552:U:H2'	1:AA:553:A:C8	2.41	0.56
23:DB:1862:G:O2'	23:DB:1863:G:H5'	2.06	0.56
23:BB:1996:C:H5	32:BK:32:TYR:HH	1.53	0.56
23:DB:2639:A:H2'	23:DB:2640:G:O4'	2.06	0.56
28:DF:103:ILE:HD12	28:DF:104:THR:N	2.21	0.56
11:CL:107:LYS:O	11:CL:108:ASP:HB2	2.06	0.56
28:BF:7:TYR:O	28:BF:11:VAL:HB	2.05	0.56
1:CA:327:A:H1'	1:CA:329:A:O4'	2.06	0.56
23:DB:1098:A:C3'	52:DI:3:LYS:HA	2.24	0.56
23:DB:458:G:H22	23:DB:469:G:H2'	1.68	0.56
23:BB:100:U:O3'	42:BU:90:LYS:HG2	2.06	0.56
47:D0:47:TYR:HB2	47:D0:50:GLY:O	2.06	0.56
25:DC:145:MET:HG2	25:DC:152:GLN:HG2	1.88	0.56
25:DC:68:ARG:HD3	25:DC:103:ILE:HD12	1.88	0.56
38:DQ:47:ARG:O	38:DQ:51:GLN:HG3	2.06	0.56
27:DE:163:ASN:HB2	27:DE:167:VAL:O	2.05	0.56
33:BL:110:VAL:HB	33:BL:126:ARG:CZ	2.35	0.56
38:BQ:35:PHE:HE1	39:BR:85:LYS:HZ2	1.53	0.56
13:AN:60:ARG:HE	13:AN:62:ARG:HE	1.53	0.56
23:BB:974:G:O4'	23:BB:990:A:N6	2.39	0.56
23:BB:2771:C:H2'	23:BB:2772:C:C6	2.41	0.56
23:DB:871:U:H2'	23:DB:872:U:H6	1.70	0.56
27:BE:149:ILE:CG1	27:BE:186:VAL:HG13	2.36	0.56
26:DD:33:ARG:HB2	26:DD:33:ARG:NH1	2.18	0.56
26:DD:50:VAL:HG11	26:DD:75:ALA:HB3	1.87	0.56
18:CS:11:ASP:O	18:CS:14:LEU:HG	2.06	0.56
13:CN:12:ARG:HG3	13:CN:53:ASP:O	2.05	0.56
40:BS:27:LYS:CD	40:BS:27:LYS:H	2.11	0.56
37:DP:59:THR:HG22	37:DP:74:GLN:HB3	1.88	0.56
39:DR:40:MET:O	39:DR:54:VAL:HG22	2.06	0.56
31:DJ:100:VAL:HG22	31:DJ:101:ILE:N	2.21	0.56
48:B1:42:VAL:HG12	48:B1:43:ARG:HE	1.71	0.56
23:DB:1082:U:N3	23:DB:1086:A:C2	2.73	0.56
1:CA:617:G:H5'	15:CP:46:LYS:HD3	1.87	0.56
1:AA:1329:A:OP1	12:AM:28:ARG:HB2	2.05	0.56
40:BS:89:ALA:C	40:BS:90:LYS:HZ2	2.08	0.56
30:BH:128:HIS:CB	30:BH:144:VAL:HB	2.35	0.56
1:CA:235:C:H2'	1:CA:236:A:H8	1.70	0.56
16:CQ:10:ARG:NH1	16:CQ:55:GLY:H	2.04	0.56
23:DB:581:C:OP1	38:DQ:31:TYR:HB3	2.06	0.56
1:CA:552:U:H2'	1:CA:553:A:C8	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:45:GLN:N	44:BX:45:GLN:NE2	2.53	0.56
23:DB:2443:C:O2'	23:DB:2444:G:H5'	2.05	0.56
7:CH:100:ILE:HG13	7:CH:128:VAL:CG2	2.36	0.56
23:BB:2239:G:H5'	25:BC:246:PRO:CG	2.35	0.56
23:DB:1438:U:N3	23:DB:1552:A:N6	2.53	0.56
15:AP:20:VAL:HG22	15:AP:21:VAL:N	2.21	0.56
7:CH:35:ILE:HG22	7:CH:39:LEU:HD23	1.88	0.56
2:CC:35:ASP:O	2:CC:39:ARG:HG3	2.06	0.56
4:CE:67:ARG:NH1	4:CE:67:ARG:HB2	2.20	0.56
1:CA:93:U:C2'	1:CA:94:G:H5'	2.36	0.56
23:DB:1854:A:N6	23:DB:1888:G:H1'	2.21	0.56
27:DE:191:ASP:O	27:DE:194:LYS:HG2	2.06	0.56
29:DG:94:ARG:HB2	29:DG:105:SER:CB	2.35	0.56
23:BB:198:C:C2'	23:BB:199:A:H5''	2.35	0.56
30:BH:140:ALA:C	30:BH:141:LYS:HD3	2.26	0.56
1:CA:1292:G:H2'	1:CA:1293:C:H6	1.71	0.56
23:BB:765:C:H2'	23:BB:766:U:C6	2.39	0.56
1:AA:529:G:H22	11:AL:47:ALA:CB	2.18	0.56
3:CD:22:SER:H	3:CD:109:THR:CG2	2.19	0.56
32:BK:10:VAL:HG11	32:BK:15:GLY:O	2.04	0.56
23:DB:1889:A:H2'	23:DB:1890:A:C8	2.41	0.56
1:AA:332:G:OP2	19:AT:2:ASN:HB3	2.06	0.56
23:DB:2771:C:H2'	23:DB:2772:C:C6	2.41	0.56
23:BB:1923:U:H2'	23:BB:1924:C:C6	2.41	0.56
29:BG:88:LEU:HD11	29:BG:95:ALA:HB2	1.88	0.56
23:BB:1739:A:H2'	23:BB:1740:G:C8	2.40	0.56
33:DL:76:GLU:OE1	33:DL:76:GLU:HA	2.05	0.56
4:CE:55:VAL:N	4:CE:56:PRO:HD2	2.21	0.56
23:BB:758:C:O2	23:BB:1981:A:H2	1.86	0.56
42:BU:23:LYS:NZ	42:BU:24:VAL:HG22	2.21	0.56
20:CB:31:PHE:HB2	20:CB:41:ASN:HA	1.88	0.56
43:DW:42:THR:N	43:DW:65:LYS:HA	2.20	0.56
43:BW:42:THR:CB	43:BW:66:VAL:H	2.19	0.56
23:DB:324:A:H2'	23:DB:325:G:O4'	2.06	0.56
46:BZ:15:SER:HB2	46:BZ:25:ARG:HH12	1.71	0.56
46:BZ:48:GLN:H	46:BZ:51:VAL:HB	1.69	0.56
23:BB:943:A:OP1	33:BL:42:SER:HB3	2.06	0.56
40:BS:7:HIS:CG	40:BS:8:ARG:H	2.23	0.56
8:AI:18:VAL:HG21	8:AI:82:ILE:HG13	1.88	0.56
8:AI:64:ILE:HD13	8:AI:78:ILE:HG21	1.87	0.56
1:CA:1002:G:H2'	1:CA:1003:G:O4'	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:10:THR:HG22	31:BJ:50:THR:CA	2.35	0.56
31:BJ:35:ARG:HH21	31:BJ:40:HIS:N	2.04	0.56
27:BE:122:GLU:HB3	27:BE:152:GLU:CB	2.35	0.56
26:DD:146:ILE:CD1	26:DD:155:VAL:HG13	2.36	0.56
44:DX:25:GLN:HG2	44:DX:26:PHE:N	2.20	0.56
13:CN:42:ASN:HB3	13:CN:46:LYS:HE2	1.86	0.56
1:CA:923:A:OP1	4:CE:25:LYS:HB3	2.05	0.56
7:AH:111:THR:HG23	7:AH:114:ALA:HB2	1.87	0.56
17:AR:49:LYS:HA	17:AR:52:ARG:HD2	1.88	0.56
28:DF:107:VAL:HG12	28:DF:108:PRO:CD	2.32	0.56
1:CA:875:U:O2'	7:CH:14:ARG:HD2	2.05	0.56
35:DN:72:ASP:OD1	35:DN:74:GLU:HB3	2.05	0.56
23:DB:2562:U:H1'	32:DK:23:LYS:HE2	1.88	0.56
48:D1:24:LYS:HZ2	48:D1:25:ASN:N	2.04	0.56
1:CA:948:C:O2'	1:CA:949:A:H5'	2.05	0.56
34:BM:108:VAL:N	34:BM:109:PRO:CD	2.69	0.56
35:DN:87:PHE:HB2	35:DN:94:TYR:CE2	2.40	0.56
23:DB:703:U:H2'	23:DB:704:G:O4'	2.05	0.56
24:DV:6:ALA:O	24:DV:65:VAL:HA	2.06	0.56
2:AC:26:LYS:HD3	2:AC:26:LYS:C	2.25	0.56
48:B1:31:GLU:HB3	48:B1:32:LYS:HE3	1.86	0.56
6:AG:45:ALA:HB2	6:AG:116:ALA:O	2.05	0.56
18:CS:62:THR:HG21	18:CS:64:GLU:OE1	2.05	0.56
12:CM:78:ARG:NH1	12:CM:79:LEU:HD23	2.19	0.56
1:AA:69:G:H2'	1:AA:70:U:C6	2.40	0.56
1:AA:97:G:H2'	1:AA:98:A:O4'	2.05	0.56
23:BB:1460:U:H5''	23:BB:1461:C:C5	2.41	0.56
3:CD:151:GLN:NE2	3:CD:153:ARG:HD2	2.20	0.56
23:DB:1459:G:C2'	23:DB:1460:U:H5'	2.35	0.56
23:DB:2888:C:H2'	23:DB:2889:C:H6	1.69	0.56
23:BB:170:U:H2'	23:BB:171:U:H6	1.71	0.56
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.40	0.56
23:BB:2825:G:H2'	23:BB:2826:A:H5'	1.88	0.56
1:CA:1063:C:H3'	1:CA:1064:G:H2'	1.87	0.56
1:AA:824:G:H2'	1:AA:825:A:H8	1.71	0.56
23:DB:675:A:OP1	27:DE:58:LYS:HE2	2.06	0.56
1:CA:272:C:H2'	1:CA:273:U:H6	1.70	0.56
23:DB:621:A:H2'	23:DB:622:G:O4'	2.06	0.56
23:DB:2665:A:O2'	23:DB:2666:C:H5'	2.05	0.56
10:AK:12:ARG:HD2	10:AK:12:ARG:N	2.21	0.56
23:BB:1862:G:O2'	23:BB:1863:G:H5'	2.06	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:3:GLN:OE1	34:BM:47:GLU:HB2	2.05	0.56
37:BP:29:VAL:CG2	37:BP:47:ILE:HD11	2.36	0.56
25:DC:63:ILE:HG22	25:DC:64:VAL:N	2.21	0.56
39:DR:79:ARG:HD2	39:DR:80:ARG:N	2.21	0.56
33:BL:63:LYS:HA	50:B3:24:LYS:HD3	1.87	0.56
23:BB:639:U:H2'	23:BB:640:C:H6	1.69	0.56
32:BK:40:LYS:HE3	32:BK:57:VAL:HG12	1.88	0.56
23:DB:2091:C:H5'	46:DZ:49:ARG:HG3	1.88	0.56
23:BB:2484:G:OP1	34:BM:44:ARG:HD2	2.06	0.56
23:BB:581:C:H2'	23:BB:582:A:H8	1.70	0.56
1:AA:266:G:O2'	1:AA:267:C:H3'	2.06	0.56
23:BB:663:G:OP1	33:BL:27:LEU:HD21	2.06	0.56
23:BB:527:C:H5''	23:BB:2779:U:C2	2.41	0.56
23:BB:996:A:O3'	38:BQ:92:LYS:HE2	2.06	0.56
23:DB:2636:C:C5'	26:DD:80:TRP:HE1	2.19	0.56
18:CS:15:LEU:HA	18:CS:18:VAL:CG1	2.34	0.56
23:BB:140:C:H4'	23:BB:141:G:H21	1.71	0.56
28:DF:16:MET:O	28:DF:20:ASN:HA	2.06	0.56
12:CM:3:ILE:HA	12:CM:56:ARG:NH1	2.21	0.56
26:BD:119:ALA:HA	26:BD:123:LYS:HZ1	1.69	0.56
23:BB:1656:C:P	26:BD:141:ARG:HD3	2.45	0.56
50:D3:12:ARG:O	50:D3:13:PHE:HB2	2.06	0.56
1:AA:1422:G:OP1	32:BK:48:PRO:HA	2.06	0.56
33:DL:90:VAL:HG13	33:DL:90:VAL:O	2.06	0.56
19:CT:61:ALA:HA	19:CT:67:HIS:N	2.17	0.56
28:DF:107:VAL:N	28:DF:108:PRO:CD	2.69	0.56
23:BB:1080:A:H2'	23:BB:1081:U:H6	1.71	0.56
42:DU:25:LYS:HA	42:DU:34:ILE:H	1.71	0.56
23:DB:1666:G:O3'	32:DK:6:THR:HG23	2.06	0.56
48:D1:7:LYS:HB3	48:D1:24:LYS:NZ	2.21	0.56
48:D1:9:LYS:HA	48:D1:24:LYS:CB	2.36	0.56
1:CA:673:A:H1'	17:CR:63:TYR:CE1	2.40	0.56
18:AS:68:HIS:NE2	18:AS:72:GLU:HG3	2.21	0.56
23:DB:2074:U:H2'	23:DB:2075:U:C6	2.41	0.56
23:DB:581:C:H2'	23:DB:582:A:H8	1.70	0.56
34:DM:19:GLY:C	34:DM:20:LEU:HD12	2.25	0.56
11:CL:30:ARG:O	11:CL:56:LEU:HA	2.06	0.56
23:BB:1550:C:H2'	23:BB:1551:A:C8	2.40	0.56
46:DZ:11:GLU:H	46:DZ:27:THR:HG22	1.71	0.56
1:CA:576:C:OP2	1:CA:576:C:H3'	2.06	0.56
7:AH:65:PHE:CD2	7:AH:66:GLN:HG3	2.41	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:104:ILE:HG23	4:AE:111:ARG:NH1	2.21	0.56
6:AG:61:PHE:O	6:AG:65:LEU:HD13	2.06	0.56
23:DB:1534:U:H2'	23:DB:1536:C:N3	2.21	0.56
1:CA:676:A:H5''	10:CK:114:PRO:HB2	1.87	0.56
23:DB:566:U:O2'	23:DB:567:U:H5'	2.06	0.56
23:BB:1534:U:H2'	23:BB:1536:C:N3	2.21	0.56
23:DB:1360:G:C2'	23:DB:1361:G:H5'	2.36	0.56
1:CA:1234:C:H1'	1:CA:1364:U:O2	2.06	0.56
16:CQ:24:ILE:HD12	16:CQ:24:ILE:N	2.21	0.56
23:DB:30:G:H2'	23:DB:31:C:H6	1.71	0.56
23:BB:2626:C:O2'	23:BB:2627:G:H5'	2.06	0.56
23:BB:1710:G:H4'	23:BB:2858:C:O2	2.06	0.56
50:B3:53:ASP:O	50:B3:56:LEU:HB3	2.06	0.56
1:CA:426:U:H2'	1:CA:427:U:C6	2.41	0.56
47:B0:16:ARG:HA	47:B0:19:ASP:OD2	2.05	0.56
1:AA:129:A:H1'	1:AA:130:A:C8	2.41	0.56
6:AG:24:LYS:O	6:AG:28:ILE:HG13	2.06	0.56
23:BB:1064:C:H4'	52:BI:90:GLY:HA2	1.88	0.56
23:BB:1316:U:O2'	23:BB:1317:G:H5'	2.05	0.56
23:BB:315:G:H2'	23:BB:316:C:C6	2.41	0.56
48:D1:42:VAL:O	48:D1:43:ARG:HB2	2.06	0.56
43:DW:21:GLY:HA3	43:DW:32:ALA:HA	1.86	0.56
34:BM:53:MET:O	34:BM:54:THR:HG23	2.06	0.56
52:DI:2:LYS:NZ	52:DI:2:LYS:HB3	2.21	0.55
27:DE:48:THR:HG23	27:DE:84:THR:HA	1.88	0.55
23:BB:1241:A:C2'	23:BB:1242:U:H5'	2.36	0.55
25:DC:153:LEU:HD23	25:DC:153:LEU:H	1.71	0.55
1:AA:958:A:N1	18:AS:53:GLY:HA3	2.21	0.55
1:AA:450:G:H4'	15:AP:41:PRO:HB2	1.87	0.55
24:BV:21:ARG:NH2	24:BV:27:PRO:HG3	2.21	0.55
23:BB:2053:G:O2'	23:BB:2054:A:H5'	2.06	0.55
16:AQ:8:GLN:HB3	16:AQ:57:VAL:HG13	1.88	0.55
36:DO:49:VAL:HG22	36:DO:50:ALA:N	2.21	0.55
38:BQ:3:VAL:HG12	38:BQ:5:ARG:HG3	1.87	0.55
39:BR:5:PHE:HA	39:BR:40:MET:HG3	1.86	0.55
39:BR:4:VAL:HG22	39:BR:5:PHE:H	1.71	0.55
1:CA:1014:A:C2	1:CA:1219:A:H1'	2.41	0.55
23:BB:543:G:C3'	23:BB:544:C:H5''	2.36	0.55
28:BF:121:PHE:HE2	28:BF:166:ARG:H	1.54	0.55
26:DD:11:MET:O	26:DD:22:ILE:HA	2.06	0.55
32:DK:64:ARG:N	32:DK:83:ALA:HB3	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:42:ALA:HB1	39:DR:53:PHE:CD1	2.40	0.55
19:AT:62:ALA:O	19:AT:63:LYS:HG3	2.05	0.55
35:BN:9:GLN:HB2	35:BN:17:ARG:CZ	2.36	0.55
35:DN:26:GLY:HA2	35:DN:75:ILE:HD13	1.87	0.55
2:AC:181:ILE:N	2:AC:181:ILE:HD12	2.20	0.55
10:CK:13:LYS:HD2	10:CK:13:LYS:N	2.21	0.55
20:AB:125:PHE:HD2	20:AB:125:PHE:H	1.53	0.55
23:BB:1168:G:H2'	23:BB:1169:A:O4'	2.06	0.55
23:DB:245:G:O2'	23:DB:246:C:H5'	2.07	0.55
3:AD:58:GLN:OE1	3:AD:62:ARG:HG3	2.07	0.55
23:DB:2538:C:O2'	23:DB:2539:C:H5'	2.06	0.55
23:BB:419:U:H2'	23:BB:420:C:C6	2.41	0.55
23:DB:1460:U:H5''	23:DB:1461:C:C5	2.41	0.55
1:AA:383:A:H2'	1:AA:384:G:O4'	2.05	0.55
23:DB:1938:A:O2'	23:DB:1939:U:H5''	2.06	0.55
16:AQ:4:ILE:CD1	16:AQ:5:ARG:H	2.20	0.55
1:CA:301:G:H2'	1:CA:302:G:H8	1.71	0.55
6:AG:72:VAL:HA	6:AG:89:GLU:HA	1.86	0.55
1:AA:272:C:H2'	1:AA:273:U:H6	1.71	0.55
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.41	0.55
23:BB:1244:A:O2'	23:BB:1245:G:H5'	2.05	0.55
23:BB:442:G:H22	27:BE:46:GLN:NE2	2.03	0.55
37:BP:83:ILE:HB	37:BP:85:VAL:HG23	1.88	0.55
25:BC:130:PRO:HB2	25:BC:133:ASN:ND2	2.21	0.55
18:AS:32:THR:HB	18:AS:49:ALA:O	2.05	0.55
8:AI:30:ASN:HD21	8:AI:65:THR:HA	1.71	0.55
34:DM:41:LEU:HB2	34:DM:95:LEU:HD22	1.87	0.55
39:BR:53:PHE:CG	39:BR:54:VAL:N	2.73	0.55
12:AM:11:HIS:O	12:AM:12:LYS:HG2	2.06	0.55
23:DB:918:A:C2'	23:DB:919:U:H5'	2.30	0.55
10:AK:85:VAL:HG21	10:AK:96:ILE:HD11	1.88	0.55
37:DP:1:SER:HB2	37:DP:5:LYS:HG2	1.88	0.55
26:BD:122:VAL:HG22	26:BD:128:ARG:HB2	1.89	0.55
13:CN:56:PRO:O	13:CN:59:GLN:HG3	2.05	0.55
50:D3:12:ARG:CB	50:D3:23:HIS:HB2	2.31	0.55
23:DB:1657:U:OP2	26:DD:141:ARG:HG3	2.07	0.55
11:AL:48:LEU:H	11:AL:48:LEU:CD2	2.13	0.55
34:DM:114:ARG:O	34:DM:117:PHE:HD1	1.89	0.55
1:CA:922:G:N3	1:CA:1398:A:H2	2.05	0.55
1:AA:196:A:O5'	19:AT:63:LYS:HE2	2.05	0.55
1:AA:235:C:H2'	1:AA:236:A:H8	1.70	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1202:U:H2'	1:AA:1203:C:H5'	1.87	0.55
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.05	0.55
1:CA:1509:C:O2'	1:CA:1510:C:H5'	2.05	0.55
25:DC:67:LYS:HG2	25:DC:149:LYS:O	2.05	0.55
23:BB:2600:A:O2'	23:BB:2601:C:H5'	2.05	0.55
23:BB:533:G:H2'	23:BB:534:U:C6	2.40	0.55
1:AA:1397:C:H4'	1:AA:1398:A:OP2	2.04	0.55
25:BC:209:ALA:HA	25:BC:213:ARG:NE	2.21	0.55
23:DB:2467:C:O4'	34:DM:118:LYS:HD2	2.07	0.55
1:AA:9:G:H5'	4:AE:107:GLY:HA3	1.86	0.55
29:BG:71:LEU:HA	29:BG:74:MET:CG	2.36	0.55
23:BB:2538:C:O2'	23:BB:2539:C:H5'	2.06	0.55
29:BG:119:GLY:C	29:BG:120:ILE:HD12	2.27	0.55
1:CA:123:U:OP1	1:CA:312:C:H5'	2.07	0.55
1:CA:1348:U:H4'	8:CI:121:ARG:HG3	1.88	0.55
1:AA:983:A:H5'	1:AA:984:C:OP2	2.06	0.55
1:CA:21:G:H2'	1:CA:22:G:C8	2.40	0.55
23:DB:1559:U:H3'	23:DB:1560:G:H5'	1.88	0.55
1:AA:720:C:H5''	17:AR:40:PRO:HA	1.87	0.55
23:DB:2586:U:H2'	23:DB:2587:A:C8	2.41	0.55
19:AT:74:HIS:O	19:AT:78:LEU:HD12	2.05	0.55
23:BB:2398:U:H2'	23:BB:2399:G:H8	1.71	0.55
23:DB:1923:U:H2'	23:DB:1924:C:C6	2.41	0.55
30:DH:80:ILE:N	30:DH:80:ILE:HD12	2.21	0.55
3:CD:55:ARG:HG3	3:CD:55:ARG:HH11	1.71	0.55
37:BP:88:ARG:HA	37:BP:88:ARG:HE	1.70	0.55
10:CK:81:LEU:HD23	10:CK:99:LEU:HD21	1.87	0.55
23:DB:1098:A:C3'	52:DI:3:LYS:HB3	2.36	0.55
23:DB:1099:G:O5'	52:DI:3:LYS:C	2.39	0.55
37:DP:29:VAL:O	37:DP:31:VAL:HG23	2.06	0.55
27:DE:45:ALA:O	27:DE:46:GLN:HB3	2.05	0.55
37:BP:5:LYS:C	37:BP:7:LEU:H	2.09	0.55
43:BW:56:HIS:CE1	43:BW:58:LEU:HB2	2.41	0.55
30:BH:4:ILE:H	30:BH:37:VAL:CB	2.17	0.55
33:BL:63:LYS:CG	50:B3:11:LYS:HA	2.37	0.55
23:BB:650:C:H5''	50:B3:22:LYS:HZ3	1.71	0.55
36:DO:26:LEU:O	36:DO:27:VAL:HG13	2.06	0.55
35:BN:34:ILE:HG12	35:BN:34:ILE:O	2.07	0.55
34:DM:73:ILE:HG21	34:DM:90:GLU:CD	2.27	0.55
38:BQ:88:GLU:HA	39:BR:53:PHE:CD2	2.41	0.55
12:AM:15:VAL:CG2	12:AM:33:LEU:HD12	2.35	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:147:LEU:HD13	27:BE:182:ALA:O	2.07	0.55
27:BE:187:VAL:HG23	27:BE:187:VAL:O	2.06	0.55
1:CA:1217:C:H2'	1:CA:1218:C:H6	1.71	0.55
49:B2:34:ARG:NE	49:B2:42:LEU:HD13	2.21	0.55
36:DO:67:ASN:HD22	36:DO:68:LYS:N	2.04	0.55
52:DI:79:LEU:HD11	52:DI:131:THR:OG1	2.06	0.55
23:DB:1022:G:H8	31:DJ:68:LYS:HE3	1.69	0.55
23:BB:2143:C:O3'	23:BB:2144:G:H4'	2.06	0.55
32:BK:47:ILE:HG23	32:BK:48:PRO:HD2	1.87	0.55
1:AA:1241:G:H2'	1:AA:1242:G:C8	2.38	0.55
35:DN:66:ALA:O	35:DN:70:THR:HB	2.06	0.55
45:BY:6:ILE:HD13	45:BY:35:VAL:O	2.06	0.55
20:CB:209:VAL:O	20:CB:213:LEU:HD12	2.05	0.55
23:BB:1199:U:H2'	23:BB:1200:C:C6	2.41	0.55
5:CF:86:ARG:HD3	17:CR:63:TYR:O	2.06	0.55
25:DC:205:GLY:C	25:DC:206:LYS:HG2	2.27	0.55
23:DB:2103:C:H2'	23:DB:2104:C:O4'	2.07	0.55
19:CT:73:ARG:HG3	19:CT:74:HIS:N	2.21	0.55
23:BB:729:G:H4'	23:BB:763:G:C5'	2.36	0.55
1:AA:1308:U:OP1	12:AM:95:PRO:HA	2.07	0.55
28:BF:33:ILE:HA	28:BF:155:ILE:HA	1.88	0.55
23:BB:214:G:H2'	23:BB:215:G:C8	2.41	0.55
23:BB:1381:G:H2'	23:BB:1382:G:H5'	1.86	0.55
44:BX:7:ARG:NH1	44:BX:7:ARG:HA	2.21	0.55
25:BC:179:GLU:HG3	25:BC:266:ILE:HG22	1.87	0.55
15:AP:23:ASP:O	15:AP:26:ASN:HB2	2.06	0.55
1:CA:449:G:H2'	1:CA:450:G:C8	2.40	0.55
26:DD:56:LYS:NZ	26:DD:56:LYS:HB3	2.21	0.55
1:CA:220:G:O2'	1:CA:221:C:H5'	2.06	0.55
1:AA:366:A:O2'	1:AA:367:U:OP1	2.24	0.55
23:BB:1291:C:O2'	23:BB:1292:G:H5'	2.07	0.55
23:DB:192:C:H2'	23:DB:193:U:H5'	1.88	0.55
23:BB:2400:G:O2'	23:BB:2401:U:H5'	2.07	0.55
34:BM:58:LYS:C	34:BM:60:GLN:H	2.07	0.55
23:DB:1099:G:OP2	52:DI:2:LYS:O	2.23	0.55
37:DP:23:ASP:HB2	37:DP:93:LYS:HE2	1.89	0.55
37:DP:25:VAL:C	37:DP:27:VAL:H	2.10	0.55
37:DP:86:LYS:HE3	37:DP:88:ARG:HB2	1.89	0.55
23:BB:84:A:O5'	42:BU:91:LYS:HD3	2.07	0.55
42:BU:23:LYS:O	42:BU:25:LYS:N	2.40	0.55
42:BU:78:LYS:CE	42:BU:96:LYS:HB2	2.37	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1113:U:H5''	29:BG:2:ARG:N	2.22	0.55
25:DC:33:LEU:CD2	25:DC:34:GLU:HG3	2.25	0.55
23:BB:2729:G:H2'	23:BB:2730:C:H6	1.71	0.55
43:DW:23:LYS:HD3	43:DW:24:ARG:HD2	1.88	0.55
43:DW:35:ILE:HD12	43:DW:35:ILE:N	2.14	0.55
30:DH:26:ALA:C	30:DH:28:ASN:N	2.60	0.55
30:DH:3:VAL:HB	30:DH:37:VAL:HG11	1.87	0.55
1:AA:1320:C:H41	18:AS:36:ARG:HG2	1.71	0.55
42:DU:28:LEU:HD21	42:DU:31:GLY:HA3	1.89	0.55
1:AA:981:U:H4'	13:AN:60:ARG:HG3	1.88	0.55
40:BS:17:VAL:HG23	40:BS:76:VAL:HG11	1.88	0.55
39:DR:63:VAL:CG2	39:DR:64:VAL:H	2.09	0.55
34:DM:2:LEU:HB2	34:DM:47:GLU:HG2	1.88	0.55
23:DB:1197:G:H2'	23:DB:1198:U:C6	2.41	0.55
26:DD:4:LEU:HD23	26:DD:77:ARG:HD3	1.88	0.55
48:D1:22:THR:HG21	50:D3:34:LYS:NZ	2.21	0.55
23:DB:2839:G:H2'	23:DB:2840:C:C6	2.41	0.55
45:DY:36:GLU:O	45:DY:37:ARG:HG2	2.06	0.55
5:AF:64:VAL:CG1	5:AF:65:GLU:H	2.13	0.55
17:CR:72:ARG:CZ	17:CR:72:ARG:HB2	2.36	0.55
1:AA:34:C:H2'	1:AA:35:G:C8	2.41	0.55
47:D0:26:SER:HB2	47:D0:38:LEU:CD2	2.37	0.55
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.42	0.55
23:BB:78:U:H2'	23:BB:79:C:H6	1.70	0.55
23:DB:1550:C:H2'	23:DB:1551:A:C8	2.41	0.55
23:DB:1551:A:H3'	23:DB:1552:A:H5''	1.87	0.55
23:DB:1251:C:O2'	23:DB:1252:G:H3'	2.07	0.55
6:AG:41:ILE:HD11	6:AG:116:ALA:HB2	1.88	0.55
23:DB:2250:G:H21	23:DB:2496:C:H4'	1.71	0.55
9:CJ:36:VAL:HA	9:CJ:76:ILE:CG2	2.37	0.55
28:BF:15:LEU:HA	28:BF:18:GLU:HB3	1.88	0.55
23:DB:935:C:H2'	23:DB:936:A:H8	1.71	0.55
23:BB:1854:A:N6	23:BB:1888:G:H1'	2.21	0.55
23:DB:2398:U:H2'	23:DB:2399:G:H8	1.70	0.55
23:BB:2888:C:H2'	23:BB:2889:C:H6	1.70	0.55
23:BB:1444:G:H2'	23:BB:1445:G:C8	2.40	0.55
23:DB:78:U:H2'	23:DB:79:C:C6	2.41	0.55
23:BB:295:G:O2'	23:BB:296:U:H5'	2.07	0.55
27:DE:59:PRO:HB2	27:DE:60:TRP:CD1	2.41	0.55
1:AA:462:G:H3'	1:AA:463:U:H5''	1.88	0.55
23:BB:2657:A:H2'	23:BB:2658:C:O4'	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:621:A:H2'	23:BB:622:G:O4'	2.06	0.55
37:BP:24:THR:HG21	37:BP:111:GLU:HG2	1.88	0.55
23:BB:667:U:H2'	23:BB:668:A:O4'	2.07	0.55
23:BB:397:U:OP1	46:BZ:29:GLY:HA2	2.07	0.55
6:CG:91:ARG:HB3	6:CG:92:PRO:HD2	1.88	0.55
13:AN:9:GLU:O	13:AN:13:VAL:HG23	2.07	0.55
4:CE:65:LYS:HB3	4:CE:65:LYS:NZ	2.21	0.55
27:BE:48:THR:HG23	27:BE:87:ALA:H	1.72	0.55
51:D4:26:ILE:HD11	51:D4:34:LYS:HA	1.88	0.55
23:BB:2849:U:H4'	23:BB:2850:A:C5'	2.37	0.55
23:BB:2848:G:O2'	37:BP:96:LEU:HD22	2.06	0.55
23:DB:2262:U:OP1	23:DB:2387:U:O2'	2.23	0.55
35:DN:110:MET:O	35:DN:111:ALA:HB3	2.07	0.55
23:BB:338:G:C2	23:BB:339:U:H1'	2.41	0.55
42:DU:27:VAL:HG12	42:DU:33:VAL:HG13	1.87	0.55
46:BZ:33:ASN:CB	46:BZ:44:PHE:HB2	2.29	0.55
23:DB:1803:A:H5'	25:DC:255:LYS:HD3	1.88	0.55
33:BL:30:THR:HG22	33:BL:36:LYS:HZ1	1.72	0.55
38:BQ:5:ARG:HH11	38:BQ:5:ARG:CB	2.13	0.55
40:BS:29:VAL:HG11	40:BS:69:LEU:HB2	1.88	0.55
43:DW:18:LYS:HB2	43:DW:18:LYS:HZ2	1.69	0.55
10:CK:19:VAL:CG2	10:CK:34:THR:HG22	2.31	0.55
26:DD:5:VAL:HG12	26:DD:6:GLY:N	2.21	0.55
23:DB:639:U:H2'	23:DB:640:C:H6	1.69	0.55
48:D1:22:THR:O	48:D1:23:THR:C	2.44	0.55
23:BB:654:A:H2'	23:BB:655:A:C5'	2.33	0.55
39:DR:66:HIS:HA	39:DR:98:ILE:HA	1.89	0.55
22:DA:51:G:O2'	22:DA:52:A:H5''	2.06	0.55
42:DU:11:ILE:HB	42:DU:69:VAL:CG2	2.35	0.55
1:AA:87:C:H2'	1:AA:88:U:C4'	2.36	0.55
23:DB:947:A:O2'	23:DB:984:A:H2	1.90	0.55
1:CA:806:C:H2'	1:CA:807:A:H8	1.71	0.55
25:DC:19:VAL:HG12	25:DC:20:ASN:H	1.70	0.55
11:CL:73:LEU:HD21	11:CL:103:CYS:HA	1.89	0.55
29:BG:5:LYS:HB3	29:BG:68:ARG:CZ	2.36	0.55
47:B0:9:ARG:NH1	47:B0:9:ARG:HB3	2.22	0.55
23:DB:2756:U:H4'	23:DB:2757:A:OP1	2.06	0.55
49:B2:35:ARG:O	49:B2:39:ARG:HA	2.06	0.55
1:CA:279:A:H4'	1:CA:280:C:OP2	2.07	0.55
25:BC:254:LYS:N	25:BC:254:LYS:HD2	2.22	0.55
4:AE:13:LYS:HD2	4:AE:112:ALA:HB1	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:138:LEU:CD1	26:DD:142:VAL:HB	2.37	0.55
1:CA:399:G:H2'	1:CA:400:C:C6	2.42	0.55
1:CA:1526:G:H5''	21:CU:38:GLU:HG2	1.89	0.55
23:BB:1360:G:C2'	23:BB:1361:G:H5'	2.37	0.55
23:BB:363:G:H2'	23:BB:364:C:C6	2.42	0.55
41:BT:35:ALA:O	41:BT:81:LYS:HD3	2.06	0.55
28:BF:174:PHE:N	28:BF:175:PRO:HD2	2.22	0.55
15:AP:1:MET:N	15:AP:24:SER:HB3	2.22	0.55
23:BB:1564:C:O2'	23:BB:1565:C:H5'	2.06	0.55
1:CA:214:C:H2'	1:CA:215:C:H6	1.72	0.55
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.41	0.55
1:AA:335:C:H2'	1:AA:336:A:H8	1.72	0.55
23:DB:1061:U:H4'	23:DB:1070:A:O3'	2.07	0.55
24:BV:2:PHE:O	24:BV:3:THR:HG23	2.07	0.55
26:DD:18:ASP:C	26:DD:20:VAL:H	2.10	0.55
23:DB:2825:G:H2'	23:DB:2826:A:H5'	1.89	0.55
3:CD:44:LYS:O	3:CD:44:LYS:HD3	2.07	0.55
23:BB:2639:A:H2'	23:BB:2640:G:O4'	2.06	0.55
1:AA:19:A:OP1	4:AE:134:ASN:ND2	2.39	0.55
23:DB:1099:G:P	52:DI:4:VAL:N	2.65	0.55
42:BU:5:ARG:HG2	42:BU:6:ARG:N	2.20	0.55
36:BO:56:LYS:HE3	36:BO:57:ALA:N	2.22	0.55
47:D0:41:HIS:CG	47:D0:42:ILE:N	2.70	0.55
31:DJ:135:GLN:NE2	31:DJ:137:PRO:HB2	2.19	0.55
43:BW:45:HIS:HB2	43:BW:67:LYS:CE	2.37	0.55
38:DQ:23:TYR:HB2	38:DQ:28:SER:HB3	1.89	0.55
18:AS:49:ALA:HB1	18:AS:56:HIS:CB	2.31	0.55
27:DE:149:ILE:HD11	27:DE:187:VAL:H	1.72	0.55
23:BB:2393:U:H5'	33:BL:62:PRO:CD	2.36	0.55
23:BB:395:U:H2'	23:BB:396:G:N7	2.21	0.55
34:BM:7:THR:HG22	34:BM:8:LYS:N	2.17	0.55
16:AQ:63:CYS:SG	16:AQ:73:THR:HG23	2.47	0.55
33:BL:27:LEU:C	33:BL:29:LYS:H	2.10	0.55
31:DJ:44:TYR:HE2	31:DJ:50:THR:HB	1.71	0.55
1:CA:1221:G:O3'	18:CS:76:THR:HG21	2.06	0.55
34:DM:71:LYS:O	34:DM:73:ILE:HG12	2.07	0.55
23:DB:2642:G:OP1	31:DJ:84:ILE:HG21	2.06	0.55
40:BS:70:LYS:HD2	40:BS:110:ARG:HG3	1.88	0.55
18:CS:11:ASP:HB3	18:CS:13:HIS:CE1	2.42	0.55
33:DL:108:ALA:HB3	33:DL:125:LEU:CB	2.37	0.55
23:BB:142:A:O2'	23:BB:143:C:H5'	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:23:ARG:HA	44:DX:26:PHE:CD1	2.42	0.55
26:BD:31:ALA:HA	26:BD:51:THR:OG1	2.07	0.55
26:BD:93:GLY:O	26:BD:94:GLN:HG3	2.06	0.55
8:CI:49:GLN:N	8:CI:50:PRO:HD2	2.22	0.55
23:BB:1754:A:OP2	37:BP:94:ALA:HB1	2.06	0.55
1:CA:1335:U:H5''	1:CA:1337:G:N2	2.21	0.55
29:DG:10:VAL:HG12	29:DG:10:VAL:O	2.05	0.55
5:CF:81:ASN:O	5:CF:84:VAL:HG12	2.06	0.55
34:DM:133:LYS:HD2	34:DM:134:THR:H	1.71	0.55
24:DV:8:VAL:HG12	24:DV:38:LEU:HD11	1.89	0.55
1:CA:1226:C:O2'	1:CA:1227:A:H5'	2.07	0.55
23:BB:1551:A:H3'	23:BB:1552:A:H5''	1.87	0.55
23:DB:1824:G:O2'	25:DC:244:VAL:HG21	2.06	0.55
23:DB:705:A:N6	23:DB:726:G:O2'	2.39	0.55
23:DB:2230:G:H2'	23:DB:2231:U:C6	2.42	0.55
23:BB:2471:A:O2'	23:BB:2472:G:C8	2.54	0.55
3:CD:117:VAL:HG12	3:CD:130:ASN:CA	2.37	0.55
16:CQ:6:THR:HG23	16:CQ:59:GLU:OE1	2.06	0.55
29:BG:89:VAL:HG12	29:BG:159:LYS:HA	1.89	0.55
23:DB:1405:U:H2'	23:DB:1406:U:H6	1.72	0.55
1:CA:389:A:H2'	1:CA:389:A:N3	2.22	0.55
23:BB:2557:G:H2'	23:BB:2558:C:H6	1.71	0.55
1:CA:412:A:N1	3:CD:30:LYS:HG3	2.20	0.55
23:DB:2080:A:H5'	46:DZ:17:SER:CB	2.37	0.55
42:DU:94:PHE:CD2	42:DU:100:GLU:HG2	2.42	0.55
23:BB:566:U:O2'	23:BB:567:U:H5'	2.06	0.55
12:CM:44:ILE:HA	12:CM:47:LEU:HD21	1.89	0.55
1:AA:913:A:H1'	1:AA:914:A:O4'	2.06	0.55
23:BB:2047:C:H2'	23:BB:2048:G:C8	2.42	0.55
50:D3:2:LYS:HB2	50:D3:2:LYS:HZ2	1.72	0.55
1:CA:219:U:H2'	1:CA:220:G:C8	2.42	0.55
2:AC:166:TRP:HA	2:AC:166:TRP:CE3	2.41	0.55
23:DB:1219:U:H2'	23:DB:1220:G:C8	2.41	0.55
23:DB:2078:C:O2'	23:DB:2079:U:H5'	2.06	0.55
1:CA:824:G:H2'	1:CA:825:A:H8	1.71	0.55
1:CA:462:G:H3'	1:CA:463:U:H5''	1.88	0.55
40:DS:34:ASP:HA	40:DS:37:THR:HG22	1.88	0.55
31:BJ:112:GLY:O	31:BJ:116:ARG:HB2	2.06	0.55
1:CA:129:A:H1'	1:CA:130:A:C8	2.41	0.55
23:BB:36:G:N2	23:BB:37:C:H1'	2.22	0.55
47:D0:41:HIS:NE2	47:D0:42:ILE:HG22	2.22	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:D0:42:ILE:O	47:D0:46:GLY:N	2.39	0.55
23:DB:1651:G:H4'	35:DN:39:PRO:HG2	1.89	0.55
23:BB:921:C:O2'	23:BB:922:C:H5'	2.06	0.55
32:BK:97:THR:OG1	32:BK:98:ARG:HD2	2.06	0.55
16:AQ:58:VAL:HB	16:AQ:74:LEU:HD23	1.88	0.55
26:DD:118:PHE:HA	26:DD:164:GLN:HA	1.89	0.55
35:DN:4:ARG:NH2	35:DN:4:ARG:H	2.05	0.55
8:AI:56:MET:SD	8:AI:57:VAL:N	2.80	0.55
27:BE:118:LEU:C	27:BE:119:ILE:HD12	2.27	0.55
23:DB:2282:G:O2'	23:DB:2283:C:P	2.64	0.55
25:DC:216:ARG:HB3	25:DC:217:PRO:CD	2.37	0.55
37:DP:52:ARG:HD2	37:DP:60:VAL:HG13	1.88	0.55
8:CI:50:PRO:O	8:CI:54:VAL:HG22	2.06	0.55
23:DB:90:U:OP2	23:DB:91:A:H3'	2.07	0.55
23:BB:589:U:H2'	23:BB:590:A:H8	1.72	0.55
52:DI:92:PRO:O	52:DI:93:ASN:HB2	2.07	0.55
28:DF:98:PHE:HA	28:DF:101:ARG:NE	2.18	0.55
1:AA:806:C:H2'	1:AA:807:A:H8	1.72	0.55
30:BH:75:LEU:HD23	30:BH:76:GLU:H	1.71	0.55
11:CL:54:VAL:CG1	11:CL:79:ILE:HD11	2.37	0.55
36:BO:76:LYS:HB2	36:BO:106:LEU:HD22	1.88	0.55
23:BB:1515:A:H5'	23:BB:1557:C:H5'	1.88	0.55
23:BB:458:G:P	49:B2:39:ARG:HH22	2.29	0.55
23:DB:321:U:OP2	27:DE:130:LYS:HA	2.07	0.55
3:AD:152:SER:O	3:AD:155:LYS:HG3	2.07	0.55
40:DS:72:THR:HB	40:DS:109:ASP:HB2	1.88	0.55
1:AA:1289:A:C2'	1:AA:1290:G:H5'	2.35	0.55
18:CS:30:LEU:HD12	18:CS:48:ILE:HG12	1.88	0.55
24:BV:77:VAL:HG12	34:BM:133:LYS:NZ	2.21	0.55
22:BA:6:G:H2'	22:BA:7:G:H8	1.69	0.55
23:DB:2213:U:O2	23:DB:2213:U:H2'	2.07	0.55
1:AA:70:U:H1'	1:AA:71:A:N7	2.22	0.55
1:AA:801:U:H2'	1:AA:802:A:C8	2.42	0.55
23:DB:1444:G:H2'	23:DB:1445:G:C8	2.40	0.55
6:AG:71:THR:O	6:AG:72:VAL:HG13	2.06	0.55
1:AA:220:G:O2'	1:AA:221:C:H5'	2.06	0.55
1:CA:230:G:O2'	1:CA:231:U:H5'	2.07	0.55
1:CA:1157:A:H5'	1:CA:1158:C:C6	2.42	0.55
29:BG:77:GLY:HA3	29:BG:135:ALA:O	2.07	0.55
6:CG:106:ALA:HB1	6:CG:132:THR:OG1	2.07	0.55
10:CK:17:ASP:OD1	10:CK:36:ARG:HG3	2.06	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2138:G:H2'	23:BB:2139:U:C6	2.42	0.55
23:DB:278:A:N3	23:DB:278:A:H2'	2.20	0.55
23:DB:845:A:C6	23:DB:847:U:H1'	2.42	0.55
23:DB:667:U:H2'	23:DB:668:A:O4'	2.07	0.55
1:AA:173:U:H5'	1:AA:197:A:O4'	2.07	0.55
4:AE:80:LEU:HB2	4:AE:97:PRO:HB3	1.87	0.55
37:DP:93:LYS:CG	37:DP:96:LEU:HA	2.26	0.55
27:DE:49:ARG:C	27:DE:51:GLU:H	2.09	0.55
43:DW:20:LEU:HD11	43:DW:31:LEU:HD12	1.88	0.55
25:BC:42:ARG:CG	25:BC:43:ASN:N	2.62	0.55
23:BB:856:G:H21	43:BW:22:VAL:HG11	1.72	0.55
33:BL:63:LYS:HB2	50:B3:11:LYS:HG3	1.87	0.55
23:BB:635:C:H3'	33:BL:109:LYS:HZ1	1.70	0.55
33:BL:77:ILE:CB	33:BL:110:VAL:HG22	2.31	0.55
23:BB:2265:U:H3'	23:BB:2266:A:C5'	2.36	0.55
32:BK:87:LEU:HA	32:BK:95:ILE:H	1.72	0.55
46:DZ:3:LYS:HD2	46:DZ:3:LYS:H	1.72	0.55
34:BM:42:THR:O	34:BM:44:ARG:N	2.39	0.55
16:AQ:18:LYS:HA	16:AQ:47:ASP:O	2.07	0.55
8:AI:56:MET:HA	8:AI:59:LYS:NZ	2.22	0.55
39:BR:22:LEU:O	39:BR:96:VAL:HG22	2.06	0.55
3:AD:115:GLN:HG3	3:AD:119:HIS:CE1	2.41	0.55
13:CN:68:ARG:NH2	13:CN:80:ARG:HH12	2.05	0.55
26:BD:48:ILE:HG13	26:BD:80:TRP:CD1	2.41	0.55
37:DP:59:THR:HA	37:DP:76:HIS:HA	1.89	0.55
32:DK:108:ARG:NH2	37:DP:36:LYS:H	2.04	0.55
39:DR:41:ILE:O	39:DR:43:ASN:N	2.39	0.55
1:CA:16:A:N1	1:CA:919:A:H2	2.04	0.55
14:AO:78:THR:HA	14:AO:81:ILE:HG12	1.89	0.55
20:AB:30:ILE:HA	20:AB:39:ILE:O	2.07	0.55
23:DB:741:U:H2'	23:DB:742:A:C8	2.41	0.55
23:BB:2335:A:OP2	36:BO:9:ARG:HG3	2.07	0.55
1:CA:254:G:O2'	1:CA:255:G:H5'	2.07	0.55
41:BT:68:LYS:C	41:BT:68:LYS:HD3	2.28	0.55
23:BB:2839:G:H2'	23:BB:2840:C:C6	2.41	0.55
11:CL:120:ARG:HD3	11:CL:121:PRO:HD2	1.88	0.55
23:DB:2895:G:H2'	23:DB:2896:C:H6	1.66	0.55
1:AA:279:A:H4'	1:AA:280:C:OP2	2.06	0.55
1:AA:389:A:H2'	1:AA:389:A:N3	2.22	0.55
23:BB:1405:U:H2'	23:BB:1406:U:H6	1.71	0.55
48:B1:31:GLU:CG	48:B1:32:LYS:H	2.19	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1591:A:H2'	23:BB:1592:C:C6	2.42	0.55
29:DG:79:THR:HG23	29:DG:80:GLU:N	2.22	0.55
20:CB:205:ALA:HB3	20:CB:208:ALA:HB3	1.88	0.55
23:BB:280:U:H2'	23:BB:281:C:C6	2.42	0.55
23:BB:329:G:O6	42:BU:16:LYS:HE2	2.07	0.55
12:CM:44:ILE:C	12:CM:44:ILE:HD12	2.27	0.55
1:CA:1386:G:H2'	1:CA:1387:G:C8	2.42	0.55
23:BB:2307:G:H4'	23:BB:2311:A:N6	2.22	0.55
1:AA:521:G:OP2	11:AL:50:LYS:HE3	2.07	0.55
23:DB:1564:C:O2'	23:DB:1565:C:H5'	2.06	0.55
1:AA:219:U:H2'	1:AA:220:G:C8	2.42	0.55
17:AR:21:ASP:OD2	17:AR:23:LYS:HG3	2.06	0.55
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.42	0.55
1:CA:1248:A:H2	8:CI:71:ILE:HD11	1.70	0.55
3:CD:78:ALA:HB1	3:CD:85:THR:HA	1.88	0.55
52:BI:49:GLU:CG	52:BI:54:ILE:HD11	2.37	0.55
23:DB:2216:G:H2'	23:DB:2217:G:H8	1.72	0.55
23:BB:1904:G:O2'	23:BB:1905:C:H5'	2.06	0.55
23:DB:1432:G:O2'	23:DB:1433:A:H5'	2.07	0.55
23:BB:2236:U:H2'	23:BB:2237:G:O4'	2.07	0.55
1:AA:426:U:H2'	1:AA:427:U:C6	2.41	0.55
10:AK:15:VAL:HG11	10:AK:35:ASP:HB2	1.88	0.55
23:DB:2848:G:H1'	23:DB:2868:A:H61	1.72	0.55
42:BU:11:ILE:HG23	42:BU:20:LYS:O	2.07	0.55
37:BP:1:SER:HA	37:BP:4:ILE:HD12	1.88	0.55
37:BP:23:ASP:N	37:BP:93:LYS:HE2	2.22	0.55
43:DW:47:GLY:CA	43:DW:71:LYS:HB3	2.34	0.55
30:DH:4:ILE:HD13	30:DH:4:ILE:H	1.71	0.55
43:BW:21:GLY:HA3	43:BW:32:ALA:CB	2.36	0.55
39:DR:86:GLN:HG3	39:DR:87:GLN:HG2	1.89	0.55
20:AB:53:LEU:HD11	20:AB:216:VAL:HA	1.87	0.55
42:DU:27:VAL:HG12	42:DU:33:VAL:HG22	1.87	0.55
30:BH:11:ASN:ND2	30:BH:12:LEU:N	2.55	0.55
27:DE:112:LEU:HD12	27:DE:115:GLN:NE2	2.22	0.55
23:DB:2239:G:OP1	25:DC:246:PRO:HG3	2.07	0.55
13:AN:61:ASN:O	13:AN:62:ARG:HB2	2.07	0.55
41:DT:48:GLN:HG3	41:DT:49:LYS:N	2.21	0.55
41:DT:53:VAL:HA	41:DT:93:LEU:HG	1.88	0.55
8:AI:64:ILE:HD13	8:AI:78:ILE:CG2	2.37	0.55
31:DJ:44:TYR:CD1	31:DJ:45:THR:N	2.71	0.55
23:BB:1131:G:C4'	31:BJ:85:LYS:HZ2	2.20	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:165:GLY:HA2	28:BF:168:LEU:HD21	1.88	0.55
22:DA:103:U:O2'	22:DA:104:A:H5'	2.07	0.55
9:CJ:40:ILE:HG13	9:CJ:73:LEU:HB3	1.89	0.55
16:CQ:68:LYS:O	16:CQ:70:LYS:N	2.40	0.55
23:BB:64:A:H2'	23:BB:65:U:C6	2.42	0.55
3:CD:118:SER:HA	3:CD:130:ASN:HB2	1.87	0.55
16:CQ:74:LEU:HD22	16:CQ:75:VAL:N	2.22	0.55
11:CL:17:LYS:HZ2	11:CL:17:LYS:HB2	1.71	0.55
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.42	0.55
22:DA:76:G:H2'	22:DA:77:U:C6	2.38	0.55
23:BB:1843:C:H5''	25:BC:252:LYS:HZ3	1.72	0.55
40:DS:58:ALA:O	40:DS:62:ASP:HB3	2.06	0.55
23:BB:2093:G:O2'	23:BB:2094:A:H5'	2.07	0.55
25:BC:260:LYS:HB2	25:BC:261:ARG:HE	1.71	0.55
29:DG:34:ARG:NH1	29:DG:70:LEU:HG	2.22	0.55
1:CA:985:C:H2'	1:CA:986:U:H6	1.71	0.55
23:DB:1351:C:O2'	23:DB:1571:A:H1'	2.06	0.55
42:DU:96:LYS:HD3	42:DU:97:SER:N	2.21	0.55
16:CQ:23:ALA:C	16:CQ:24:ILE:HD12	2.27	0.55
40:DS:85:ILE:HD13	40:DS:86:MET:N	2.21	0.55
24:DV:26:PHE:HE2	24:DV:44:HIS:HA	1.72	0.55
1:CA:1068:G:N7	1:CA:1094:G:H2'	2.22	0.55
23:DB:1921:G:O2'	23:DB:1922:G:H5'	2.07	0.55
1:CA:454:G:O2'	1:CA:455:G:H5'	2.07	0.55
23:BB:866:A:H61	23:BB:913:U:C4'	2.19	0.55
1:CA:118:U:O4	1:CA:288:A:H2'	2.07	0.55
23:BB:62:U:H3'	23:BB:63:A:H8	1.72	0.55
1:AA:415:A:H3'	1:AA:416:G:H8	1.72	0.55
37:BP:112:ARG:HH11	37:BP:112:ARG:CA	2.20	0.55
23:DB:2400:G:O2'	23:DB:2401:U:H5'	2.07	0.55
23:BB:1327:A:H2'	23:BB:1328:A:O4'	2.06	0.55
23:BB:235:U:H2'	23:BB:236:C:C6	2.42	0.55
6:AG:99:ALA:O	6:AG:103:ILE:HG13	2.07	0.55
3:AD:98:ASP:HB2	3:AD:132:ALA:HB1	1.88	0.55
25:BC:68:ARG:HH22	25:BC:190:THR:HG23	1.72	0.55
30:DH:5:LEU:HD13	30:DH:35:LYS:CE	2.37	0.55
33:BL:77:ILE:HD12	33:BL:110:VAL:CG2	2.37	0.55
33:BL:77:ILE:CD1	33:BL:92:LEU:HD13	2.32	0.55
16:AQ:20:ILE:HG21	16:AQ:52:CYS:SG	2.47	0.55
33:BL:39:LYS:CB	33:BL:46:VAL:HG13	2.37	0.55
23:BB:994:C:H3'	38:BQ:53:LYS:HE2	1.88	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:31:VAL:HG13	41:DT:32:LEU:N	2.16	0.55
31:DJ:41:LYS:NZ	31:DJ:45:THR:HA	2.22	0.55
28:BF:35:LEU:HD22	28:BF:56:LEU:HD21	1.88	0.55
25:BC:80:LEU:HA	25:BC:91:ALA:HA	1.89	0.55
20:CB:101:THR:HG22	20:CB:174:GLU:OE1	2.06	0.55
1:AA:132:C:H5''	19:AT:68:LYS:CE	2.37	0.55
33:DL:109:LYS:O	33:DL:110:VAL:HG13	2.07	0.55
26:BD:35:THR:CG2	26:BD:46:ARG:HH22	2.20	0.55
23:DB:2729:G:H2'	23:DB:2730:C:H6	1.72	0.55
32:DK:64:ARG:HD3	32:DK:83:ALA:HB2	1.89	0.55
19:CT:66:ILE:HG23	19:CT:70:LYS:HG3	1.87	0.55
1:CA:1297:G:H4'	1:CA:1298:U:H5'	1.88	0.55
44:BX:38:GLN:O	44:BX:39:GLN:HG3	2.07	0.55
45:BY:6:ILE:HD13	45:BY:6:ILE:N	2.22	0.55
30:BH:121:VAL:HG21	30:BH:128:HIS:HE2	1.72	0.55
36:BO:12:THR:OG1	36:BO:13:ARG:HD2	2.07	0.55
48:B1:10:LEU:HD13	48:B1:25:ASN:HD22	1.71	0.55
23:DB:1300:G:H5'	23:DB:1301:A:N3	2.22	0.55
23:BB:1439:A:C6	23:BB:1552:A:C5	2.95	0.55
23:DB:2228:G:H2'	23:DB:2229:U:C6	2.42	0.55
1:CA:500:G:H5''	11:CL:120:ARG:HH21	1.71	0.55
23:BB:1300:G:H5'	23:BB:1301:A:N3	2.22	0.55
1:AA:921:U:H2'	1:AA:922:G:O4'	2.07	0.55
13:CN:82:LYS:O	13:CN:85:GLU:HB2	2.07	0.55
23:BB:607:U:O4	23:BB:620:G:H5''	2.07	0.55
15:AP:18:GLN:NE2	15:AP:35:ARG:HD2	2.22	0.55
22:DA:66:A:O2'	22:DA:67:G:H8	1.90	0.55
29:DG:126:THR:HG23	29:DG:129:GLU:H	1.72	0.55
12:CM:80:MET:HA	12:CM:87:GLY:CA	2.37	0.55
23:DB:1934:C:O2'	23:DB:1935:G:H5'	2.07	0.55
23:BB:2104:C:H2'	23:BB:2105:U:H5	1.72	0.55
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.41	0.55
23:DB:106:C:H2'	23:DB:107:G:H8	1.71	0.55
40:DS:86:MET:HG3	40:DS:87:PRO:HD2	1.89	0.55
2:CC:58:ARG:HA	2:CC:63:ILE:HA	1.88	0.55
23:DB:2553:G:H2'	23:DB:2554:U:H4'	1.89	0.55
22:BA:91:C:O2'	22:BA:92:C:H5'	2.07	0.55
6:CG:91:ARG:O	6:CG:95:ARG:HG3	2.07	0.55
52:DI:102:ARG:HG3	52:DI:141:ASP:HB2	1.89	0.55
23:BB:1001:A:H2'	23:BB:1002:G:O4'	2.07	0.55
23:DB:1059:G:H4'	52:DI:116:MET:HE2	1.89	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1494:G:O2'	1:AA:1495:U:H5'	2.06	0.55
24:DV:24:ASN:HB3	24:DV:45:ASP:OD1	2.06	0.55
1:AA:1033:G:H2'	1:AA:1034:G:O4'	2.07	0.55
3:CD:16:THR:HG22	3:CD:17:ASP:H	1.71	0.55
23:DB:2843:G:O2'	23:DB:2844:G:H5'	2.07	0.55
1:CA:610:U:O4'	1:CA:610:U:O2	2.25	0.55
7:AH:31:LEU:O	7:AH:35:ILE:HG13	2.07	0.55
10:CK:106:ILE:HD11	10:CK:109:ILE:HG13	1.87	0.55
37:DP:47:ILE:HD13	37:DP:63:ILE:HG12	1.89	0.54
27:BE:49:ARG:NH1	27:BE:49:ARG:HB2	2.23	0.54
43:DW:36:ILE:HG21	43:DW:68:PHE:CE1	2.42	0.54
23:BB:1821:A:H5'	25:BC:155:ARG:HD2	1.89	0.54
25:DC:37:SER:H	25:DC:62:ARG:HB3	1.71	0.54
27:DE:164:LEU:HD22	27:DE:164:LEU:O	2.06	0.54
23:BB:2575:C:H5''	26:BD:149:ASN:N	2.22	0.54
35:DN:4:ARG:H	35:DN:4:ARG:CZ	2.19	0.54
3:AD:111:ALA:O	3:AD:114:ARG:HB3	2.07	0.54
41:DT:92:ASN:O	41:DT:93:LEU:HD12	2.06	0.54
23:BB:528:A:C2	23:BB:2043:C:H4'	2.42	0.54
1:CA:1320:C:H41	18:CS:36:ARG:HG3	1.72	0.54
31:BJ:37:ARG:NH2	31:BJ:110:PRO:HG3	2.22	0.54
12:AM:3:ILE:HG23	12:AM:56:ARG:HG2	1.87	0.54
23:DB:635:C:H3'	33:DL:126:ARG:HH21	1.73	0.54
33:DL:123:ARG:HA	33:DL:142:ILE:HA	1.88	0.54
22:DA:49:C:H2'	22:DA:50:A:C8	2.42	0.54
21:CU:24:LYS:HB3	21:CU:24:LYS:NZ	2.22	0.54
26:BD:167:ASN:N	26:BD:167:ASN:HD22	2.04	0.54
50:D3:5:THR:O	50:D3:5:THR:HG23	2.06	0.54
23:DB:2646:C:H2'	23:DB:2647:U:O4'	2.07	0.54
28:DF:140:ILE:N	28:DF:140:ILE:HD12	2.17	0.54
52:BI:74:PRO:O	52:BI:77:VAL:HG22	2.07	0.54
34:DM:101:VAL:HG12	34:DM:102:LEU:N	2.21	0.54
33:BL:79:LEU:CA	33:BL:113:ALA:HB3	2.37	0.54
23:DB:1022:G:N2	23:DB:1142:A:C2	2.75	0.54
1:AA:1110:A:H2'	1:AA:1111:A:H5'	1.89	0.54
1:CA:1077:G:N2	1:CA:1080:A:OP2	2.40	0.54
15:CP:28:ARG:HD3	15:CP:29:ASN:OD1	2.07	0.54
23:DB:810:U:C2	33:DL:37:GLY:HA2	2.43	0.54
14:CO:80:LEU:O	14:CO:84:LEU:HD13	2.07	0.54
23:BB:2320:U:H3'	23:BB:2321:U:H5'	1.88	0.54
44:BX:38:GLN:H	44:BX:38:GLN:HE21	1.54	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DI:49:GLU:CB	52:DI:52:LEU:HD12	2.37	0.54
6:CG:134:VAL:O	6:CG:138:GLU:HG3	2.06	0.54
41:DT:34:VAL:HG22	41:DT:35:ALA:N	2.20	0.54
32:DK:43:ILE:H	32:DK:43:ILE:CD1	2.19	0.54
30:DH:113:SER:HB2	30:DH:132:PHE:CZ	2.42	0.54
31:DJ:120:ARG:N	31:DJ:121:LYS:HZ2	2.05	0.54
31:DJ:120:ARG:HB3	31:DJ:121:LYS:NZ	2.22	0.54
48:D1:5:ARG:HA	48:D1:28:THR:OG1	2.07	0.54
23:DB:1773:A:N6	25:DC:206:LYS:HE2	2.22	0.54
4:CE:108:GLY:O	4:CE:111:ARG:HB3	2.06	0.54
23:BB:26:G:H1'	23:BB:514:A:H61	1.70	0.54
23:BB:1774:C:C2'	23:BB:1774:C:O2	2.54	0.54
23:BB:729:G:H4'	23:BB:763:G:H5'	1.88	0.54
23:BB:764:A:H5''	25:BC:208:GLY:CA	2.37	0.54
17:CR:54:LEU:O	17:CR:58:ILE:HG13	2.07	0.54
23:BB:593:U:H2'	23:BB:594:U:C6	2.41	0.54
1:CA:598:U:H4'	7:CH:85:TYR:CD2	2.43	0.54
30:BH:69:ALA:HB2	30:BH:139:PHE:O	2.07	0.54
23:BB:1565:C:OP1	25:BC:23:LEU:HD23	2.08	0.54
23:BB:372:G:N2	23:BB:401:A:OP2	2.35	0.54
29:DG:123:GLU:HG2	29:DG:131:VAL:HG13	1.89	0.54
23:BB:1637:A:H2'	23:BB:1638:C:H6	1.73	0.54
23:DB:1400:U:H2'	23:DB:1401:G:C8	2.41	0.54
23:DB:191:A:O2'	23:DB:192:C:H5'	2.08	0.54
52:DI:99:LYS:HD3	52:DI:99:LYS:H	1.71	0.54
23:BB:1166:G:H2'	23:BB:1167:C:C6	2.43	0.54
1:AA:118:U:O4	1:AA:288:A:H2'	2.07	0.54
28:BF:37:MET:HG2	28:BF:86:CYS:HB2	1.89	0.54
23:DB:2097:A:H2'	23:DB:2098:U:C6	2.42	0.54
23:BB:1921:G:O2'	23:BB:1922:G:H5'	2.07	0.54
13:AN:33:VAL:HG23	13:AN:40:ARG:NH2	2.23	0.54
16:CQ:83:LEU:HD22	16:CQ:83:LEU:N	2.22	0.54
23:DB:1291:C:O2'	23:DB:1292:G:H5'	2.07	0.54
42:BU:13:LEU:HG	42:BU:69:VAL:HG22	1.89	0.54
42:BU:33:VAL:HG21	42:BU:66:VAL:HA	1.89	0.54
30:DH:2:GLN:HB2	30:DH:19:VAL:HA	1.89	0.54
47:D0:52:LYS:HE2	47:D0:53:VAL:HB	1.89	0.54
32:BK:98:ARG:HA	32:BK:118:LEU:HD22	1.89	0.54
46:DZ:47:LYS:HD2	46:DZ:52:ALA:HA	1.89	0.54
23:BB:2467:C:C1'	34:BM:118:LYS:HG2	2.37	0.54
34:BM:40:ARG:HD3	34:BM:92:TRP:HB3	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2053:G:OP1	26:BD:149:ASN:C	2.44	0.54
1:AA:254:G:O2'	1:AA:255:G:H5'	2.07	0.54
5:CF:92:THR:HG22	5:CF:93:LYS:H	1.73	0.54
41:DT:66:LYS:HD2	41:DT:67:VAL:N	2.22	0.54
40:BS:44:ALA:O	40:BS:47:VAL:HG22	2.07	0.54
31:DJ:37:ARG:CZ	31:DJ:110:PRO:HG3	2.37	0.54
28:BF:52:ALA:HA	28:BF:148:VAL:HG13	1.90	0.54
34:DM:43:ALA:HB2	34:DM:69:PRO:HG3	1.89	0.54
39:BR:39:LEU:O	39:BR:54:VAL:HG12	2.06	0.54
27:BE:143:LEU:CG	27:BE:185:LYS:HD2	2.33	0.54
51:B4:25:VAL:HB	51:B4:33:HIS:C	2.26	0.54
10:AK:109:ILE:CG2	21:AU:16:ARG:HD2	2.37	0.54
30:DH:87:GLU:HB2	30:DH:89:LYS:HZ2	1.71	0.54
1:CA:1217:C:H2'	1:CA:1218:C:C6	2.41	0.54
38:BQ:52:ARG:NH1	38:BQ:55:GLN:HE21	2.05	0.54
23:BB:559:G:H1'	38:BQ:55:GLN:HE22	1.72	0.54
23:BB:2512:C:H2'	23:BB:2513:A:O4'	2.07	0.54
23:DB:1259:G:H2'	23:DB:1260:A:H8	1.73	0.54
33:DL:58:TYR:HA	33:DL:62:PRO:HD3	1.89	0.54
44:DX:22:LEU:HD22	44:DX:25:GLN:OE1	2.07	0.54
23:BB:2646:C:H2'	23:BB:2647:U:O4'	2.07	0.54
5:AF:29:ILE:HD13	5:AF:64:VAL:HG11	1.88	0.54
15:AP:52:LEU:HG	15:AP:75:ILE:HG12	1.89	0.54
23:DB:1083:U:H1'	23:DB:1086:A:N6	2.22	0.54
23:DB:1005:C:H2'	23:DB:1006:C:H6	1.72	0.54
5:CF:86:ARG:HH11	17:CR:63:TYR:HB3	1.72	0.54
25:BC:70:LYS:HE3	25:BC:95:TYR:CD2	2.43	0.54
29:BG:154:GLU:OE1	29:BG:156:TYR:HB2	2.07	0.54
12:AM:95:PRO:HD3	12:AM:108:ARG:HG2	1.89	0.54
23:DB:554:U:H2'	23:DB:555:G:O4'	2.08	0.54
23:DB:593:U:H2'	23:DB:594:U:C6	2.42	0.54
23:BB:2292:U:H2'	23:BB:2293:G:H8	1.73	0.54
1:AA:98:A:H2'	1:AA:99:C:C6	2.42	0.54
1:AA:123:U:OP1	1:AA:312:C:H5'	2.07	0.54
22:BA:76:G:H2'	22:BA:77:U:C6	2.42	0.54
29:DG:29:ASN:HB2	29:DG:78:VAL:O	2.08	0.54
23:BB:1227:G:O2'	23:BB:1228:G:H5'	2.08	0.54
1:CA:801:U:H2'	1:CA:802:A:C8	2.42	0.54
23:DB:1637:A:H2'	23:DB:1638:C:H6	1.72	0.54
23:DB:20:C:H2'	23:DB:21:A:H8	1.72	0.54
28:BF:7:TYR:HA	28:BF:11:VAL:HB	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1064:G:H4'	1:CA:1065:U:OP1	2.06	0.54
23:DB:184:C:H2'	23:DB:185:G:H8	1.71	0.54
1:AA:915:A:H2'	1:AA:916:U:H5'	1.89	0.54
23:DB:696:G:O2'	23:DB:697:G:H5'	2.07	0.54
23:DB:611:C:H2'	23:DB:612:G:O4'	2.07	0.54
1:CA:1476:A:H2'	1:CA:1477:U:O4'	2.07	0.54
23:DB:1904:G:O2'	23:DB:1905:C:H5'	2.07	0.54
20:CB:76:SER:O	20:CB:80:LYS:HG2	2.06	0.54
23:BB:1028:A:H2'	23:BB:1029:A:C8	2.42	0.54
1:AA:944:G:H1'	1:AA:1339:A:N6	2.23	0.54
36:DO:18:LEU:HD13	43:DW:76:ARG:HH21	1.73	0.54
43:DW:56:HIS:CD2	43:DW:57:THR:H	2.24	0.54
25:BC:119:VAL:HG22	25:BC:130:PRO:HG2	1.89	0.54
23:BB:1819:A:OP1	25:BC:153:LEU:HB2	2.08	0.54
23:BB:1821:A:H5'	25:BC:155:ARG:NH2	2.22	0.54
43:BW:47:GLY:O	43:BW:54:ARG:HA	2.08	0.54
23:BB:633:A:C2'	23:BB:634:C:H5'	2.37	0.54
23:DB:136:G:H2'	23:DB:137:U:H6	1.69	0.54
23:DB:1796:U:H2'	23:DB:1797:G:H8	1.73	0.54
8:AI:17:ARG:O	8:AI:64:ILE:HA	2.08	0.54
39:BR:5:PHE:HA	39:BR:40:MET:HG2	1.88	0.54
13:AN:79:SER:O	13:AN:81:ILE:HD12	2.07	0.54
20:CB:96:LEU:HB2	20:CB:99:MET:CG	2.38	0.54
12:AM:38:ILE:HG13	12:AM:55:LEU:HD21	1.89	0.54
40:BS:38:TYR:CZ	47:B0:37:HIS:HA	2.42	0.54
27:BE:141:MET:O	27:BE:143:LEU:HD22	2.08	0.54
43:DW:19:ARG:CZ	43:DW:19:ARG:HB2	2.37	0.54
26:DD:184:ARG:HD2	37:DP:4:ILE:CG2	2.38	0.54
26:DD:35:THR:HB	26:DD:48:ILE:CB	2.36	0.54
49:B2:44:VAL:HG23	49:B2:45:SER:N	2.16	0.54
26:BD:52:THR:HG22	26:BD:76:GLY:N	2.23	0.54
45:DY:2:LYS:H	45:DY:37:ARG:CB	2.20	0.54
32:DK:115:ILE:HG23	32:DK:116:ILE:N	2.22	0.54
39:DR:41:ILE:HG23	39:DR:43:ASN:HB2	1.88	0.54
13:AN:30:ILE:HG21	13:AN:44:VAL:HG21	1.89	0.54
23:BB:288:U:O2'	23:BB:289:G:H5'	2.08	0.54
1:AA:235:C:H2'	1:AA:236:A:C8	2.43	0.54
19:CT:2:ASN:O	19:CT:4:LYS:N	2.40	0.54
23:DB:2271:G:O2'	23:DB:2272:U:H5'	2.07	0.54
23:DB:1488:C:O2'	23:DB:1489:C:H5'	2.08	0.54
23:DB:1430:G:H2'	23:DB:1431:A:C8	2.43	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:67:ASN:ND2	6:AG:127:ALA:HA	2.20	0.54
23:BB:2840:C:H2'	23:BB:2841:C:H6	1.72	0.54
2:AC:149:LYS:HB3	2:AC:200:TRP:HB2	1.90	0.54
11:AL:87:LYS:NZ	11:AL:87:LYS:HA	2.21	0.54
12:CM:79:LEU:HD12	12:CM:80:MET:N	2.22	0.54
23:BB:2527:C:H1'	51:B4:1:MET:CB	2.38	0.54
1:CA:1524:C:H2'	1:CA:1525:G:C8	2.43	0.54
1:CA:1131:G:C2'	1:CA:1132:C:H5'	2.36	0.54
20:AB:186:VAL:HG22	20:AB:198:VAL:HG23	1.89	0.54
36:DO:90:VAL:HG12	36:DO:91:SER:N	2.23	0.54
1:CA:22:G:H2'	1:CA:23:C:H6	1.73	0.54
12:AM:5:GLY:O	12:AM:6:ILE:HG12	2.07	0.54
15:AP:31:ARG:HH11	15:AP:31:ARG:HG3	1.72	0.54
44:DX:1:MET:CB	44:DX:6:LEU:HG	2.37	0.54
23:BB:2398:U:H2'	23:BB:2399:G:C8	2.42	0.54
23:BB:1121:C:H2'	23:BB:1122:G:O4'	2.07	0.54
23:BB:802:A:H4'	55:BB:3474:HOH:O	2.08	0.54
31:BJ:15:TRP:HA	31:BJ:53:TYR:O	2.07	0.54
1:AA:777:A:H2'	1:AA:778:G:H8	1.72	0.54
23:BB:1480:C:H2'	23:BB:1481:U:C6	2.42	0.54
1:AA:971:G:OP1	1:AA:971:G:H3'	2.07	0.54
26:BD:12:THR:OG1	26:BD:14:ILE:HG12	2.06	0.54
26:DD:83:ARG:O	26:DD:84:LEU:HB2	2.07	0.54
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.72	0.54
30:BH:4:ILE:C	30:BH:37:VAL:HG12	2.27	0.54
27:DE:193:VAL:HA	27:DE:198:GLU:C	2.28	0.54
41:DT:15:HIS:H	41:DT:32:LEU:HA	1.73	0.54
8:AI:38:PHE:O	8:AI:44:ARG:HG2	2.08	0.54
8:AI:51:LEU:HD23	8:AI:56:MET:HE1	1.90	0.54
23:DB:851:C:H2'	23:DB:852:U:H6	1.73	0.54
5:CF:6:ILE:HD12	5:CF:7:VAL:N	2.22	0.54
33:DL:92:LEU:HA	33:DL:96:LYS:CD	2.37	0.54
41:BT:32:LEU:C	41:BT:34:VAL:H	2.11	0.54
21:CU:4:LYS:HB3	21:CU:6:ARG:NH1	2.12	0.54
23:DB:512:G:H4'	23:DB:512:G:OP1	2.07	0.54
23:BB:1639:C:H2'	23:BB:1640:A:C5'	2.33	0.54
23:DB:1287:A:O2'	23:DB:1288:G:H5'	2.08	0.54
23:DB:2839:G:H4'	35:DN:49:GLU:CG	2.30	0.54
8:CI:51:LEU:HB3	8:CI:56:MET:CG	2.34	0.54
36:BO:16:ARG:HG3	36:BO:20:GLU:HG3	1.90	0.54
23:BB:1024:G:C3'	23:BB:1025:G:H5''	2.34	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:78:LYS:CG	2:AC:81:GLU:HB2	2.34	0.54
2:AC:46:LEU:HD11	2:AC:86:LEU:HD21	1.90	0.54
23:BB:272:A:H2'	23:BB:273:G:H8	1.72	0.54
23:DB:354:A:H2'	23:DB:355:U:H6	1.69	0.54
29:BG:172:GLU:O	29:BG:173:ALA:HB2	2.07	0.54
23:DB:2070:A:H2'	23:DB:2071:A:C8	2.43	0.54
23:DB:580:U:H2'	23:DB:581:C:H6	1.70	0.54
11:CL:49:ARG:CG	11:CL:89:LEU:HD21	2.36	0.54
1:CA:415:A:H3'	1:CA:416:G:H8	1.73	0.54
1:CA:499:A:H4'	1:CA:500:G:OP1	2.06	0.54
9:CJ:65:TYR:HE1	13:CN:84:ARG:HA	1.72	0.54
9:CJ:65:TYR:OH	13:CN:84:ARG:HG3	2.07	0.54
2:CC:133:MET:HE1	2:CC:165:GLU:HB3	1.89	0.54
23:DB:2556:C:H2'	23:DB:2557:G:O4'	2.08	0.54
1:CA:1216:A:H5''	13:CN:4:SER:HB2	1.90	0.54
3:CD:160:LEU:HD22	3:CD:160:LEU:O	2.07	0.54
23:DB:2405:G:H4'	33:DL:70:LYS:HE3	1.90	0.54
1:CA:1118:U:O2'	1:CA:1119:C:H5'	2.07	0.54
1:AA:936:C:H1'	1:AA:1382:C:H42	1.72	0.54
15:CP:40:ASN:ND2	15:CP:42:ILE:HG12	2.22	0.54
1:CA:979:C:H2'	1:CA:980:C:O4'	2.07	0.54
27:DE:75:SER:OG	27:DE:77:ILE:HG22	2.07	0.54
23:DB:2398:U:H2'	23:DB:2399:G:C8	2.42	0.54
23:DB:607:U:O4	23:DB:620:G:H5''	2.07	0.54
1:CA:1030:U:O2'	1:CA:1031:C:P	2.65	0.54
23:BB:926:G:H2'	23:BB:927:A:C8	2.42	0.54
23:DB:70:G:H3'	23:DB:113:U:H4'	1.89	0.54
50:B3:59:ALA:O	50:B3:60:CYS:HB2	2.07	0.54
8:AI:99:LYS:HD3	8:AI:100:ALA:N	2.21	0.54
1:CA:128:G:H2'	1:CA:129:A:C8	2.43	0.54
23:BB:1166:G:H2'	23:BB:1167:C:H6	1.73	0.54
23:BB:611:C:H2'	23:BB:612:G:O4'	2.07	0.54
23:BB:2843:G:O2'	23:BB:2844:G:H5'	2.08	0.54
1:CA:173:U:H5'	1:CA:197:A:O4'	2.07	0.54
15:AP:8:ARG:HE	15:AP:15:PRO:HB3	1.72	0.54
1:AA:230:G:O2'	1:AA:231:U:H5'	2.07	0.54
15:AP:33:ILE:HD12	15:AP:33:ILE:N	2.21	0.54
23:DB:1480:C:H2'	23:DB:1481:U:C6	2.43	0.54
1:AA:1380:U:O4	6:AG:2:ARG:HA	2.07	0.54
4:AE:156:ARG:HD3	7:AH:42:GLU:O	2.07	0.54
52:BI:23:VAL:HG23	52:BI:24:GLY:H	1.71	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DI:5:GLN:O	52:DI:6:ALA:HB3	2.07	0.54
23:DB:95:A:O2'	44:DX:41:HIS:HA	2.08	0.54
42:BU:33:VAL:HG12	42:BU:35:VAL:CG2	2.38	0.54
23:BB:36:G:H2'	23:BB:37:C:O4'	2.08	0.54
25:BC:124:LYS:O	25:BC:191:LEU:HD13	2.07	0.54
26:DD:60:VAL:HG23	26:DD:63:PRO:CG	2.33	0.54
36:BO:41:ALA:HB3	36:BO:45:SER:O	2.07	0.54
23:DB:535:G:O2'	23:DB:536:G:H5'	2.08	0.54
20:AB:53:LEU:HD21	20:AB:212:TYR:CE2	2.42	0.54
23:BB:649:G:N2	50:B3:44:ARG:HH22	2.06	0.54
23:BB:250:G:OP2	50:B3:7:ARG:HD3	2.08	0.54
23:BB:480:A:H4'	42:BU:42:LYS:CG	2.32	0.54
35:BN:29:VAL:HB	35:BN:75:ILE:HG12	1.89	0.54
38:BQ:88:GLU:HA	39:BR:53:PHE:CE1	2.42	0.54
13:AN:66:THR:HG23	13:AN:67:GLY:N	2.22	0.54
47:B0:42:ILE:HG12	47:B0:43:THR:N	2.22	0.54
1:CA:266:G:HO2'	1:CA:267:C:H3'	1.73	0.54
41:BT:30:ILE:CG2	41:BT:31:VAL:N	2.70	0.54
23:DB:2025:C:P	26:DD:154:LYS:HE3	2.47	0.54
23:DB:160:A:H2'	23:DB:161:A:C8	2.42	0.54
22:DA:102:G:H2'	22:DA:103:U:H6	1.72	0.54
39:DR:40:MET:CG	39:DR:54:VAL:HG13	2.36	0.54
23:BB:705:A:H61	23:BB:726:G:H1'	1.73	0.54
1:CA:108:G:C6	19:CT:9:ARG:HG2	2.41	0.54
13:AN:30:ILE:CD1	13:AN:30:ILE:H	2.18	0.54
2:AC:183:TYR:HA	2:AC:199:VAL:O	2.07	0.54
6:CG:22:LEU:O	6:CG:26:VAL:HG13	2.06	0.54
23:BB:233:A:N6	23:BB:428:A:H61	2.06	0.54
30:BH:73:ASN:HD22	30:BH:74:ALA:H	1.55	0.54
23:DB:1487:U:H2'	23:DB:1488:C:H6	1.73	0.54
3:CD:2:ARG:HA	3:CD:2:ARG:HE	1.73	0.54
23:DB:1591:A:H2'	23:DB:1592:C:C6	2.42	0.54
23:BB:2556:C:H2'	23:BB:2557:G:O4'	2.08	0.54
3:AD:25:ARG:NH1	3:AD:30:LYS:HG2	2.23	0.54
20:CB:86:CYS:HB3	20:CB:88:GLN:HG3	1.90	0.54
23:BB:718:A:H3'	23:BB:719:C:C6	2.41	0.54
1:CA:539:A:H2'	1:CA:540:G:H8	1.73	0.54
23:DB:431:U:O2'	23:DB:432:A:H5'	2.08	0.54
34:DM:96:ILE:HG22	34:DM:97:GLN:NE2	2.22	0.54
3:CD:151:GLN:HE21	3:CD:153:ARG:HD2	1.73	0.54
23:BB:1097:U:C2'	23:BB:1098:A:H5'	2.36	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1559:U:H3'	23:BB:1560:G:H5'	1.88	0.54
35:BN:107:ASN:HD21	40:BS:40:ASN:CG	2.11	0.54
23:BB:1946:U:H2'	23:BB:1947:C:C6	2.43	0.54
23:BB:877:A:C2	23:BB:900:A:N7	2.76	0.54
1:CA:337:G:H2'	1:CA:338:A:C8	2.43	0.54
3:CD:55:ARG:HG3	3:CD:55:ARG:NH1	2.20	0.54
23:BB:1013:C:H2'	23:BB:1014:A:C8	2.42	0.54
23:BB:2218:G:H2'	23:BB:2219:U:C6	2.43	0.54
22:BA:15:A:H1'	22:BA:109:A:C8	2.43	0.54
23:DB:1168:G:O2'	23:DB:1169:A:H5'	2.07	0.54
23:BB:2704:C:H2'	23:BB:2705:A:O4'	2.07	0.54
2:AC:96:VAL:HB	2:AC:97:PRO:HD2	1.88	0.54
6:CG:136:LYS:O	6:CG:140:VAL:HG23	2.07	0.54
23:BB:1667:G:OP1	32:BK:6:THR:HA	2.07	0.54
1:CA:930:C:H2'	1:CA:931:C:C6	2.41	0.54
1:CA:777:A:H2'	1:CA:778:G:H8	1.72	0.54
1:AA:454:G:O2'	1:AA:455:G:H5'	2.07	0.54
23:DB:2849:U:H4'	23:DB:2850:A:C5'	2.37	0.54
37:DP:78:PRO:O	37:DP:79:VAL:HG22	2.07	0.54
27:BE:43:THR:O	27:BE:89:PRO:HA	2.07	0.54
37:BP:61:ARG:NH2	37:BP:75:THR:HB	2.22	0.54
25:BC:141:HIS:CG	25:BC:190:THR:HB	2.42	0.54
25:BC:67:LYS:CG	25:BC:68:ARG:H	2.14	0.54
33:BL:117:THR:HG21	33:BL:120:VAL:CB	2.37	0.54
15:AP:46:LYS:HD3	15:AP:46:LYS:H	1.73	0.54
32:BK:119:ALA:N	32:BK:120:PRO:HD3	2.23	0.54
34:BM:73:ILE:HD11	34:BM:92:TRP:HB2	1.89	0.54
1:AA:405:U:O4	3:AD:1:ALA:HA	2.07	0.54
35:BN:83:LEU:HA	35:BN:86:ARG:HD3	1.88	0.54
31:BJ:41:LYS:O	38:BQ:66:ALA:HB1	2.08	0.54
24:BV:63:ILE:O	24:BV:65:VAL:HG22	2.07	0.54
41:BT:84:TYR:O	41:BT:85:VAL:HG22	2.08	0.54
26:BD:128:ARG:HD3	26:BD:142:VAL:O	2.08	0.54
3:CD:196:GLU:O	3:CD:199:ILE:HG23	2.06	0.54
3:CD:58:GLN:NE2	3:CD:58:GLN:HA	2.16	0.54
23:DB:26:G:H2'	23:DB:27:G:C1'	2.37	0.54
4:CE:19:ARG:CG	4:CE:20:VAL:H	2.13	0.54
31:DJ:23:LYS:C	31:DJ:25:LEU:HD13	2.28	0.54
23:BB:1430:G:H2'	23:BB:1431:A:C8	2.43	0.54
1:CA:1296:C:H4'	1:CA:1302:C:C4	2.43	0.54
35:BN:12:ARG:HD3	35:BN:20:MET:HG3	1.90	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:70:THR:HG22	35:DN:72:ASP:N	2.23	0.54
30:BH:83:LYS:HG3	1:CA:360:G:OP1	2.07	0.54
26:BD:58:ASN:O	26:BD:59:ARG:HB2	2.07	0.54
48:B1:9:LYS:HG2	50:B3:34:LYS:NZ	2.23	0.54
30:DH:75:LEU:N	30:DH:75:LEU:HD23	2.22	0.54
23:BB:533:G:H5'	38:BQ:23:TYR:CD1	2.43	0.54
1:AA:1281:C:H5'	1:AA:1282:C:H5	1.73	0.54
23:BB:1593:A:H2'	23:BB:1594:U:C6	2.42	0.54
19:AT:49:ALA:O	19:AT:52:GLU:HB3	2.08	0.54
23:BB:1210:G:H5''	23:BB:1211:C:O5'	2.07	0.54
1:CA:766:A:H2	1:CA:1525:G:N3	2.06	0.54
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.72	0.54
11:AL:106:VAL:CG2	11:AL:116:TYR:HB3	2.38	0.54
2:CC:51:VAL:HG11	2:CC:67:ILE:HD11	1.89	0.54
27:DE:77:ILE:HG23	27:DE:78:TRP:HD1	1.73	0.54
1:AA:1527:U:O2'	1:AA:1528:U:H5'	2.07	0.54
1:AA:1452:C:H4'	1:AA:1453:G:C5'	2.37	0.54
1:CA:476:U:H2'	1:CA:477:C:H6	1.73	0.54
23:DB:663:G:OP1	33:DL:27:LEU:HD13	2.08	0.54
23:DB:2666:C:O4'	23:DB:2666:C:O2	2.24	0.54
23:DB:2704:C:H2'	23:DB:2705:A:O4'	2.07	0.54
36:BO:91:SER:HB2	36:BO:115:LEU:HG	1.89	0.54
2:AC:40:GLN:NE2	2:AC:44:LYS:HD2	2.22	0.54
1:CA:1487:G:O2'	1:CA:1488:G:H5'	2.07	0.54
40:BS:86:MET:HB2	40:BS:96:ILE:CD1	2.38	0.54
43:DW:4:LYS:HZ2	43:DW:4:LYS:H	1.54	0.54
23:BB:770:G:O2'	23:BB:771:G:H5'	2.07	0.54
23:DB:2692:G:O2'	23:DB:2693:G:H5'	2.07	0.54
37:DP:109:ILE:O	37:DP:111:GLU:N	2.40	0.54
23:DB:96:C:OP1	44:DX:41:HIS:HB2	2.08	0.54
23:BB:615:U:C2	27:BE:38:GLY:HA3	2.42	0.54
26:BD:175:LEU:HD13	26:BD:189:VAL:HG11	1.90	0.54
25:BC:124:LYS:CB	25:BC:125:PRO:CD	2.83	0.54
23:DB:533:G:H2'	23:DB:534:U:H6	1.73	0.54
38:DQ:39:ILE:HA	38:DQ:43:GLN:HE21	1.72	0.54
30:BH:37:VAL:O	30:BH:38:PRO:C	2.46	0.54
27:DE:102:ARG:HA	27:DE:105:LEU:HD23	1.90	0.54
27:DE:149:ILE:O	27:DE:149:ILE:HG13	2.08	0.54
27:DE:148:ILE:CA	27:DE:185:LYS:HB3	2.32	0.54
33:BL:82:LEU:O	33:BL:117:THR:HG22	2.06	0.54
46:DZ:49:ARG:C	46:DZ:51:VAL:N	2.61	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:581:C:H2'	23:BB:582:A:C8	2.43	0.54
36:DO:26:LEU:O	36:DO:40:ILE:HD11	2.06	0.54
33:BL:38:GLN:H	33:BL:41:ARG:HH11	1.56	0.54
33:BL:40:SER:C	33:BL:41:ARG:HE	2.10	0.54
31:DJ:35:ARG:HH22	31:DJ:41:LYS:H	1.54	0.54
34:DM:91:TYR:N	34:DM:91:TYR:CD2	2.74	0.54
39:BR:47:VAL:HG22	39:BR:48:LYS:N	2.19	0.54
39:BR:7:SER:C	39:BR:22:LEU:HD11	2.27	0.54
27:BE:119:ILE:N	27:BE:119:ILE:HD12	2.23	0.54
43:DW:19:ARG:HH21	43:DW:22:VAL:HA	1.73	0.54
51:B4:24:ARG:HH11	51:B4:24:ARG:HG3	1.73	0.54
30:BH:114:GLU:OE2	30:BH:134:VAL:HG23	2.07	0.54
23:BB:741:U:H2'	23:BB:742:A:C8	2.42	0.54
26:BD:131:ASP:O	26:BD:139:SER:HA	2.08	0.54
1:CA:719:C:H1'	17:CR:37:LYS:CB	2.32	0.54
28:DF:141:ASP:HB3	28:DF:143:ASP:OD1	2.07	0.54
13:CN:30:ILE:O	13:CN:44:VAL:HB	2.07	0.54
13:CN:26:LEU:HD21	13:CN:47:LEU:HG	1.90	0.54
8:CI:51:LEU:HD13	8:CI:56:MET:SD	2.48	0.54
46:DZ:14:ALA:HA	46:DZ:24:ILE:HA	1.89	0.54
23:BB:1055:G:HO2'	23:BB:1085:A:H2	1.49	0.54
23:BB:751:A:H5'	40:BS:90:LYS:CE	2.38	0.54
23:BB:1917:U:C2'	23:BB:1918:A:H5'	2.37	0.54
3:AD:18:LEU:HD22	3:AD:63:ILE:HG12	1.90	0.54
1:CA:235:C:H2'	1:CA:236:A:C8	2.43	0.54
30:BH:83:LYS:HB2	30:BH:92:GLY:N	2.23	0.54
33:DL:47:ARG:O	33:DL:48:ARG:HD3	2.08	0.54
1:AA:1244:G:H2'	1:AA:1245:C:H6	1.73	0.54
23:DB:2257:U:C5'	43:DW:5:ALA:HB2	2.37	0.54
1:CA:34:C:H2'	1:CA:35:G:C8	2.42	0.54
52:DI:121:ILE:CD1	52:DI:121:ILE:H	2.18	0.54
20:CB:57:ASN:HD22	20:CB:223:GLY:HA2	1.73	0.54
23:BB:936:A:H2'	23:BB:937:C:H6	1.71	0.54
23:DB:1387:A:H2'	23:DB:1388:G:C8	2.42	0.54
23:DB:1593:A:H2'	23:DB:1594:U:C6	2.42	0.54
23:DB:2247:A:H2'	23:DB:2248:C:C6	2.43	0.54
23:DB:2213:U:O2	23:DB:2213:U:C2'	2.55	0.54
23:BB:329:G:H1	42:BU:16:LYS:HD3	1.73	0.54
26:DD:114:LYS:HB2	26:DD:114:LYS:HZ2	1.72	0.54
24:DV:53:LYS:NZ	24:DV:53:LYS:HB3	2.23	0.54
31:DJ:105:VAL:HG11	31:DJ:122:LEU:HD11	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1723:G:N7	23:DB:1737:G:N2	2.56	0.54
23:BB:1816:C:C5	25:BC:62:ARG:HD2	2.42	0.54
5:AF:18:VAL:N	5:AF:19:PRO:HD2	2.22	0.54
1:CA:231:U:P	15:CP:31:ARG:HH12	2.31	0.54
3:CD:127:ARG:HD2	3:CD:127:ARG:H	1.73	0.54
23:DB:2657:A:H2'	23:DB:2658:C:O4'	2.07	0.54
23:BB:425:G:H2'	23:BB:426:C:H6	1.72	0.54
27:BE:38:GLY:C	27:BE:40:ARG:H	2.09	0.54
23:DB:2386:A:H4'	43:DW:38:ARG:HB2	1.89	0.54
43:BW:80:SER:OG	43:BW:84:GLU:HB2	2.08	0.54
23:DB:2020:A:H5'	47:D0:8:THR:HG23	1.90	0.54
42:DU:28:LEU:HD13	42:DU:30:SER:N	2.07	0.54
46:BZ:30:HIS:O	46:BZ:31:ASP:HB3	2.07	0.54
32:BK:98:ARG:H	32:BK:98:ARG:HD2	1.71	0.54
34:BM:35:ALA:HB3	34:BM:97:GLN:C	2.28	0.54
1:AA:255:G:H5'	16:AQ:17:GLU:O	2.08	0.54
36:DO:9:ARG:C	36:DO:11:ALA:H	2.11	0.54
41:DT:55:VAL:HG21	41:DT:85:VAL:HB	1.89	0.54
31:DJ:49:ASP:O	31:DJ:50:THR:CB	2.56	0.54
38:DQ:73:ILE:HG23	38:DQ:74:SER:N	2.22	0.54
35:BN:116:VAL:O	35:BN:117:ASP:HB2	2.08	0.54
39:BR:39:LEU:HD12	39:BR:60:LYS:N	2.23	0.54
1:AA:764:C:H2'	1:AA:765:G:H5'	1.88	0.54
27:BE:180:LEU:HA	27:BE:186:VAL:HG21	1.88	0.54
38:DQ:2:ARG:HG2	38:DQ:4:LYS:HE3	1.89	0.54
23:BB:139:U:C4	41:BT:1:MET:HB2	2.42	0.54
26:DD:153:GLY:C	26:DD:155:VAL:H	2.11	0.54
10:CK:83:VAL:HG21	10:CK:96:ILE:HG23	1.88	0.54
23:DB:2649:C:H2'	23:DB:2650:U:H6	1.73	0.54
26:DD:23:PRO:HA	26:DD:189:VAL:O	2.08	0.54
31:DJ:59:ALA:C	31:DJ:61:LYS:H	2.12	0.54
25:BC:19:VAL:HG12	25:BC:20:ASN:N	2.15	0.54
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.23	0.54
42:DU:9:GLU:HB2	42:DU:71:ILE:CG1	2.38	0.54
52:DI:18:ASN:HB2	52:DI:38:CYS:SG	2.48	0.54
23:BB:2811:G:H5'	26:BD:62:LYS:HD2	1.88	0.54
48:B1:26:LYS:HD3	48:B1:29:LYS:HB2	1.88	0.54
1:AA:1244:G:H2'	1:AA:1245:C:C6	2.43	0.54
27:DE:97:ASN:HB2	27:DE:100:MET:HB2	1.89	0.54
23:DB:1439:A:C6	23:DB:1552:A:C5	2.95	0.54
23:DB:1515:A:H5'	23:DB:1557:C:H5'	1.88	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:94:ARG:CB	29:BG:94:ARG:HH11	2.20	0.54
23:BB:438:G:H2'	23:BB:439:A:C8	2.42	0.54
29:BG:84:LYS:NZ	29:BG:85:LYS:H	2.06	0.54
1:AA:1477:U:H2'	1:AA:1478:U:C6	2.43	0.54
23:DB:2250:G:C6	34:DM:81:ARG:HG2	2.42	0.54
23:BB:7:G:H2'	23:BB:8:C:O4'	2.08	0.54
23:BB:709:U:H2'	23:BB:710:U:C6	2.43	0.54
23:BB:1723:G:N7	23:BB:1737:G:N2	2.56	0.54
23:BB:2761:A:H1'	29:BG:142:GLN:NE2	2.23	0.54
12:AM:2:ARG:HG3	12:AM:8:ILE:HG23	1.89	0.54
24:DV:26:PHE:CE2	24:DV:44:HIS:HA	2.43	0.54
1:CA:335:C:H2'	1:CA:336:A:H8	1.72	0.54
23:DB:1464:G:H2'	23:DB:1465:G:C8	2.43	0.54
13:AN:19:TYR:HD2	13:AN:23:ARG:HD3	1.73	0.54
52:BI:62:ALA:C	52:BI:64:ARG:H	2.10	0.54
1:CA:845:A:H3'	1:CA:846:G:O4'	2.08	0.54
52:DI:89:SER:HA	52:DI:97:VAL:HG11	1.90	0.54
23:DB:2741:A:H2'	23:DB:2742:G:O4'	2.08	0.54
37:BP:23:ASP:HA	37:BP:48:ALA:O	2.08	0.54
23:DB:2387:U:O2'	43:DW:37:VAL:HG11	2.08	0.54
23:BB:2780:G:N1	31:BJ:120:ARG:HG3	2.22	0.54
31:BJ:17:VAL:CG1	31:BJ:57:LEU:HD21	2.38	0.54
23:BB:322:A:H5'	23:BB:340:A:C1'	2.38	0.54
32:BK:61:VAL:HG23	32:BK:84:CYS:O	2.08	0.54
16:AQ:68:LYS:O	16:AQ:69:THR:CB	2.56	0.54
28:BF:59:ILE:HD13	28:BF:59:ILE:O	2.08	0.54
23:DB:1132:U:H5''	31:DJ:85:LYS:HD3	1.89	0.54
47:B0:36:LYS:HG3	47:B0:41:HIS:CA	2.38	0.54
38:BQ:52:ARG:NH2	38:BQ:55:GLN:HG2	2.23	0.54
23:BB:1287:A:O2'	23:BB:1288:G:H5'	2.08	0.54
26:BD:34:VAL:HA	26:BD:89:GLU:CB	2.32	0.54
23:DB:2840:C:H2'	23:DB:2841:C:H6	1.72	0.54
45:DY:1:ALA:O	45:DY:43:ILE:HG13	2.08	0.54
45:BY:18:LYS:HD2	45:BY:53:MET:HE1	1.90	0.54
1:AA:1325:C:O2'	1:AA:1326:U:H5'	2.08	0.54
23:DB:1000:A:H2'	23:DB:1001:A:C8	2.43	0.54
14:CO:80:LEU:HD21	14:CO:84:LEU:HD22	1.90	0.54
35:BN:10:LEU:O	35:BN:12:ARG:N	2.40	0.54
23:BB:1083:U:H2'	23:BB:1085:A:OP2	2.08	0.54
37:BP:99:LEU:HD21	37:BP:109:ILE:HG23	1.90	0.54
32:DK:24:VAL:HA	32:DK:39:ILE:CD1	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:6:THR:HG22	32:DK:7:MET:N	2.23	0.54
23:DB:1773:A:H62	25:DC:206:LYS:HE2	1.73	0.54
23:DB:581:C:H2'	23:DB:582:A:C8	2.43	0.54
48:B1:26:LYS:HD3	48:B1:29:LYS:HD3	1.90	0.54
4:AE:131:ASN:O	4:AE:135:VAL:HG22	2.08	0.54
4:CE:73:VAL:HG23	4:CE:146:MET:HE1	1.90	0.54
1:AA:399:G:H2'	1:AA:400:C:C6	2.42	0.54
23:BB:1171:G:H2'	23:BB:1172:C:C1'	2.38	0.54
19:CT:27:MET:HG2	19:CT:31:ILE:HD11	1.90	0.54
23:BB:1413:A:H2'	23:BB:1414:C:C6	2.43	0.54
51:D4:7:VAL:O	51:D4:8:LYS:HB2	2.08	0.54
23:BB:1797:G:OP1	25:BC:251:THR:HG23	2.08	0.54
23:DB:2557:G:H2'	23:DB:2558:C:H6	1.70	0.54
1:AA:472:U:H2'	1:AA:473:U:C6	2.43	0.54
1:CA:472:U:H2'	1:CA:473:U:C6	2.43	0.54
23:DB:2405:G:H1'	23:DB:2412:A:N6	2.23	0.54
37:DP:55:HIS:O	37:DP:57:ALA:N	2.38	0.54
1:CA:1135:U:H4'	1:CA:1136:C:OP1	2.05	0.54
23:BB:1934:C:O2'	23:BB:1935:G:H5'	2.08	0.54
36:DO:82:ALA:O	36:DO:83:LEU:HD12	2.08	0.54
23:BB:1745:A:H2'	23:BB:1746:A:H8	1.73	0.54
23:BB:433:C:O2'	23:BB:434:U:H5'	2.08	0.54
44:BX:44:LYS:O	44:BX:44:LYS:HD2	2.08	0.54
52:BI:14:ALA:HB1	52:BI:50:LYS:HA	1.89	0.54
12:AM:2:ARG:HD2	12:AM:2:ARG:N	2.23	0.54
1:AA:337:G:H2'	1:AA:338:A:C8	2.43	0.54
23:BB:1400:U:H2'	23:BB:1401:G:C8	2.41	0.54
3:AD:169:TRP:NE1	3:AD:170:LEU:HD23	2.22	0.54
23:BB:1061:U:H4'	23:BB:1070:A:O3'	2.08	0.54
23:DB:1219:U:H2'	23:DB:1220:G:H8	1.73	0.54
34:DM:50:ARG:HA	34:DM:53:MET:HE2	1.90	0.54
23:BB:1716:U:H2'	23:BB:1717:A:C8	2.43	0.54
23:BB:2489:U:O2'	23:BB:2490:G:H5'	2.08	0.54
6:CG:110:ARG:HE	6:CG:122:GLU:HB2	1.72	0.54
4:AE:35:LEU:HD23	4:AE:36:THR:N	2.23	0.54
34:BM:59:ARG:N	34:BM:59:ARG:HD2	2.22	0.54
52:DI:10:LEU:HD12	52:DI:10:LEU:O	2.08	0.54
23:DB:1671:U:H2'	23:DB:1673:G:OP2	2.08	0.54
23:DB:770:G:O2'	23:DB:771:G:H5'	2.08	0.54
20:CB:46:VAL:CG1	20:CB:47:PRO:HD3	2.22	0.54
43:DW:67:LYS:HG2	43:DW:71:LYS:CA	2.38	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:182:LYS:HE2	25:DC:264:LYS:NZ	2.23	0.54
23:BB:854:C:H2'	23:BB:855:G:C8	2.41	0.54
23:BB:855:G:H21	43:BW:23:LYS:HB3	1.70	0.54
43:BW:43:LYS:O	43:BW:45:HIS:N	2.41	0.54
39:DR:80:ARG:HD2	39:DR:85:LYS:HA	1.90	0.54
33:BL:119:PRO:O	33:BL:120:VAL:HB	2.06	0.54
23:BB:2272:U:H6	23:BB:2272:U:H3'	1.73	0.54
46:BZ:49:ARG:HD3	46:BZ:50:ASP:N	2.22	0.54
23:BB:871:U:H2'	23:BB:872:U:C6	2.43	0.54
34:BM:96:ILE:HD13	34:BM:97:GLN:CB	2.38	0.54
16:AQ:74:LEU:HD22	16:AQ:75:VAL:N	2.22	0.54
36:DO:35:ILE:HG21	36:DO:71:ALA:HA	1.90	0.54
23:BB:992:C:O2'	23:BB:993:G:H5'	2.08	0.54
37:BP:32:VAL:HG13	37:BP:40:GLN:NE2	2.23	0.54
41:BT:61:LEU:HD12	41:BT:62:VAL:N	2.22	0.54
12:CM:53:ASP:HA	12:CM:56:ARG:NH2	2.22	0.54
33:DL:59:ARG:HA	50:D3:11:LYS:NZ	2.22	0.54
23:DB:2024:G:H5''	26:DD:154:LYS:HZ3	1.73	0.54
48:D1:22:THR:HB	50:D3:34:LYS:HE3	1.90	0.54
52:BI:124:MET:O	52:BI:128:ILE:HG12	2.08	0.54
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.43	0.54
31:DJ:93:ILE:CG2	31:DJ:97:PRO:HA	2.37	0.54
10:CK:121:ARG:HE	21:CU:34:ARG:CG	2.21	0.54
6:AG:14:ASP:OD1	6:AG:15:PRO:HD2	2.08	0.54
28:BF:65:LEU:C	28:BF:67:THR:H	2.11	0.54
7:AH:29:SER:CB	7:AH:32:LYS:HZ2	2.21	0.54
42:DU:9:GLU:OE1	42:DU:71:ILE:HG13	2.08	0.54
20:CB:78:ALA:CB	20:CB:213:LEU:HD13	2.38	0.54
2:AC:100:ILE:C	2:AC:100:ILE:HD13	2.29	0.54
35:DN:8:ARG:HD3	35:DN:43:GLU:OE2	2.07	0.54
52:DI:41:PHE:CE2	52:DI:45:THR:HG21	2.43	0.54
18:AS:62:THR:N	18:AS:65:MET:HE3	2.23	0.54
1:AA:1461:G:H2'	1:AA:1462:C:H6	1.69	0.54
1:AA:591:U:H2'	1:AA:592:G:H8	1.71	0.54
23:BB:1441:G:H2'	23:BB:1442:U:H6	1.73	0.54
1:AA:177:G:H5''	19:AT:59:ARG:HH21	1.73	0.54
19:CT:79:THR:HA	19:CT:82:ILE:HG12	1.90	0.54
1:AA:1071:C:H2'	1:AA:1072:G:C8	2.40	0.54
1:AA:471:U:H2'	1:AA:472:U:H6	1.72	0.54
8:CI:23:GLY:H	8:CI:60:LEU:HA	1.73	0.54
23:DB:2323:G:C2'	23:DB:2324:U:H5'	2.37	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:22:G:H2'	1:AA:23:C:H6	1.73	0.54
5:CF:18:VAL:HG21	5:CF:58:HIS:CE1	2.42	0.54
23:BB:956:G:H5''	34:BM:76:LYS:HE2	1.89	0.54
1:CA:600:A:H2'	1:CA:601:G:H8	1.73	0.54
3:CD:115:GLN:NE2	3:CD:153:ARG:HH12	2.05	0.54
23:BB:1682:G:C2	23:BB:1757:A:O4'	2.61	0.54
1:AA:736:C:H2'	1:AA:737:C:C6	2.43	0.54
23:DB:1745:A:H2'	23:DB:1746:A:H8	1.73	0.54
23:DB:345:A:H1'	23:DB:346:A:C2	2.41	0.54
23:BB:1464:G:H2'	23:BB:1465:G:C8	2.43	0.54
23:BB:1751:U:H2'	23:BB:1752:C:C6	2.43	0.54
4:CE:32:PHE:CE2	4:CE:55:VAL:HG22	2.43	0.54
23:BB:1432:G:O2'	23:BB:1433:A:H5'	2.07	0.54
1:CA:366:A:O2'	1:CA:367:U:OP1	2.24	0.54
35:DN:123:GLU:HG2	35:DN:124:ALA:H	1.72	0.54
1:CA:44:A:O2'	1:CA:45:G:H5'	2.08	0.54
1:AA:787:A:O2'	1:AA:788:U:H5'	2.08	0.54
22:BA:86:G:H2'	22:BA:87:U:O4'	2.08	0.54
20:AB:95:TRP:CE3	20:AB:171:ALA:HA	2.43	0.54
23:BB:1149:G:H2'	23:BB:1150:C:C6	2.43	0.54
27:BE:198:GLU:C	27:BE:200:LEU:H	2.12	0.54
23:BB:331:C:O2'	23:BB:332:A:H5'	2.08	0.54
37:DP:29:VAL:CG2	37:DP:47:ILE:HD11	2.37	0.53
23:BB:2750:A:H5''	29:BG:3:VAL:HG13	1.90	0.53
20:CB:40:ILE:CG2	20:CB:200:PRO:HB2	2.38	0.53
23:DB:2743:U:C2'	23:DB:2744:G:H5''	2.38	0.53
37:BP:8:GLU:HA	37:BP:11:GLN:CG	2.37	0.53
23:BB:636:G:O6	33:BL:76:GLU:HG2	2.08	0.53
46:DZ:3:LYS:HB2	46:DZ:7:PRO:HA	1.90	0.53
48:D1:35:LEU:HA	48:D1:48:TYR:O	2.08	0.53
34:DM:4:PRO:HD3	34:DM:47:GLU:CG	2.39	0.53
47:B0:35:GLU:CD	47:B0:43:THR:HG22	2.28	0.53
3:CD:144:ILE:HD12	3:CD:154:VAL:HG11	1.89	0.53
26:DD:5:VAL:HG22	26:DD:51:THR:O	2.08	0.53
30:DH:121:VAL:O	30:DH:122:LEU:HB2	2.08	0.53
47:D0:15:ARG:HG3	47:D0:15:ARG:HH11	1.73	0.53
23:DB:873:C:H2'	23:DB:874:G:C8	2.43	0.53
39:DR:68:ARG:HB2	39:DR:97:LYS:HG3	1.90	0.53
48:D1:24:LYS:HB2	48:D1:24:LYS:HZ2	1.73	0.53
5:CF:51:ILE:HD13	5:CF:86:ARG:HG3	1.90	0.53
47:B0:6:LYS:HZ2	47:B0:6:LYS:HA	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1488:C:O2'	23:BB:1489:C:H5'	2.08	0.53
41:BT:68:LYS:O	41:BT:68:LYS:HD3	2.08	0.53
41:BT:69:ARG:H	41:BT:75:GLY:HA3	1.72	0.53
23:DB:1549:A:H2'	23:DB:1550:C:C6	2.43	0.53
20:CB:57:ASN:HB2	20:CB:219:THR:O	2.08	0.53
19:CT:27:MET:O	19:CT:31:ILE:HG13	2.07	0.53
7:AH:76:ARG:HG2	7:AH:77:VAL:N	2.23	0.53
23:BB:2199:A:H5'	23:BB:2200:C:OP2	2.07	0.53
22:DA:13:G:H4'	22:DA:15:A:H2'	1.89	0.53
43:DW:9:THR:OG1	43:DW:10:ARG:N	2.40	0.53
23:BB:2292:U:H2'	23:BB:2293:G:C8	2.44	0.53
1:CA:1245:C:H2'	1:CA:1246:A:H8	1.73	0.53
2:CC:113:LYS:HA	2:CC:184:ASN:ND2	2.22	0.53
23:DB:1413:A:H2'	23:DB:1414:C:C6	2.42	0.53
23:DB:2216:G:H2'	23:DB:2217:G:C8	2.43	0.53
37:BP:112:ARG:HA	37:BP:112:ARG:HH11	1.73	0.53
1:AA:916:U:H2'	1:AA:917:G:H8	1.72	0.53
1:CA:930:C:H2'	1:CA:931:C:H6	1.73	0.53
34:DM:88:ASN:N	34:DM:88:ASN:ND2	2.56	0.53
37:DP:90:ALA:HB3	37:DP:111:GLU:CB	2.38	0.53
27:BE:91:ASP:O	27:BE:92:HIS:HB2	2.06	0.53
23:BB:2204:G:H5'	25:BC:149:LYS:CE	2.25	0.53
50:B3:11:LYS:HG2	50:B3:12:ARG:HG3	1.90	0.53
34:BM:67:VAL:CG2	34:BM:95:LEU:HD21	2.39	0.53
3:AD:1:ALA:O	3:AD:67:LEU:HD21	2.08	0.53
23:DB:65:U:H2'	23:DB:66:C:C6	2.42	0.53
35:BN:52:ILE:HG21	35:BN:94:TYR:CD2	2.43	0.53
25:BC:28:PRO:HD2	25:BC:79:ARG:CZ	2.37	0.53
1:CA:1001:C:H2'	1:CA:1002:G:H8	1.74	0.53
12:AM:44:ILE:HD12	12:AM:45:SER:N	2.20	0.53
40:BS:71:VAL:CG2	40:BS:107:VAL:HG12	2.30	0.53
40:BS:29:VAL:CG1	40:BS:69:LEU:HB2	2.38	0.53
10:AK:92:ARG:NH1	10:AK:92:ARG:HB3	2.20	0.53
30:DH:122:LEU:HD13	30:DH:146:VAL:HG13	1.90	0.53
23:BB:139:U:C5	41:BT:1:MET:HB2	2.44	0.53
21:AU:29:ALA:HB1	21:AU:32:ARG:HH21	1.72	0.53
23:DB:27:G:N2	23:DB:512:G:H2'	2.16	0.53
33:DL:58:TYR:HB3	50:D3:13:PHE:CE1	2.42	0.53
35:BN:76:VAL:O	35:BN:79:LEU:HB2	2.08	0.53
26:DD:17:GLU:OE2	32:DK:72:PRO:HB2	2.08	0.53
31:DJ:100:VAL:HG22	31:DJ:101:ILE:H	1.72	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:CP:67:ILE:HG12	15:CP:72:ALA:HB2	1.91	0.53
6:AG:3:ARG:CZ	6:AG:3:ARG:HB3	2.37	0.53
46:DZ:24:ILE:CD1	46:DZ:24:ILE:H	2.14	0.53
14:AO:60:SER:HA	14:AO:63:ARG:NH1	2.22	0.53
35:BN:9:GLN:HE21	35:BN:17:ARG:NH1	2.07	0.53
39:DR:69:GLY:CA	39:DR:96:VAL:HG13	2.39	0.53
23:DB:2311:A:N3	28:DF:39:VAL:HB	2.22	0.53
22:DA:32:U:H4'	22:DA:52:A:N6	2.23	0.53
32:BK:36:GLY:HA2	32:BK:62:VAL:O	2.09	0.53
49:D2:13:ASN:C	49:D2:15:SER:H	2.10	0.53
28:DF:137:PHE:O	28:DF:139:GLU:N	2.41	0.53
23:DB:2186:G:O2'	23:DB:2187:U:H5'	2.07	0.53
1:CA:961:U:O4'	1:CA:961:U:O2	2.26	0.53
23:BB:418:C:H2'	23:BB:419:U:H6	1.73	0.53
10:AK:61:ALA:O	10:AK:64:VAL:HG12	2.08	0.53
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.24	0.53
23:BB:1259:G:H2'	23:BB:1260:A:C8	2.42	0.53
4:AE:158:LYS:HE2	4:AE:158:LYS:H	1.73	0.53
3:CD:22:SER:H	3:CD:109:THR:HG22	1.72	0.53
1:CA:1468:A:O2'	1:CA:1469:C:H5'	2.08	0.53
23:BB:1013:C:H2'	23:BB:1014:A:H8	1.73	0.53
3:CD:95:GLY:HA3	3:CD:135:GLN:NE2	2.24	0.53
28:DF:9:ASP:O	28:DF:10:GLU:HB2	2.08	0.53
23:DB:251:A:H2'	23:DB:252:G:O4'	2.08	0.53
8:CI:62:LEU:N	8:CI:62:LEU:HD13	2.23	0.53
3:CD:36:ALA:C	3:CD:38:GLY:H	2.11	0.53
23:BB:1139:G:O2'	23:BB:1140:C:H5'	2.09	0.53
17:AR:33:THR:HG23	17:AR:35:SER:H	1.72	0.53
28:BF:3:LEU:O	28:BF:3:LEU:HD23	2.08	0.53
23:DB:1100:C:H2'	23:DB:1101:U:C6	2.44	0.53
42:BU:90:LYS:NZ	42:BU:91:LYS:HE2	2.23	0.53
34:BM:3:GLN:O	34:BM:4:PRO:C	2.46	0.53
23:BB:1204:A:N1	23:BB:1241:A:N1	2.55	0.53
23:BB:2848:G:H1'	23:BB:2868:A:H61	1.72	0.53
23:DB:6:A:H4'	31:DJ:133:ALA:O	2.08	0.53
31:BJ:72:LYS:HB3	31:BJ:74:TYR:CE2	2.43	0.53
33:DL:33:ARG:HG2	39:DR:85:LYS:HZ3	1.73	0.53
30:BH:1:MET:HB2	30:BH:20:ASN:OD1	2.09	0.53
15:AP:40:ASN:HD21	15:AP:42:ILE:HG13	1.73	0.53
46:BZ:25:ARG:HG3	46:BZ:26:SER:N	2.24	0.53
34:BM:73:ILE:HG22	34:BM:74:THR:N	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2053:G:C2'	23:BB:2054:A:H5'	2.37	0.53
25:DC:245:THR:O	25:DC:247:TRP:N	2.40	0.53
23:BB:2774:C:H2'	23:BB:2775:G:O4'	2.09	0.53
39:BR:41:ILE:C	39:BR:43:ASN:N	2.60	0.53
27:BE:144:GLU:C	27:BE:146:VAL:H	2.11	0.53
18:CS:15:LEU:HD23	18:CS:15:LEU:O	2.08	0.53
33:DL:96:LYS:HE3	33:DL:96:LYS:CA	2.38	0.53
37:BP:69:VAL:O	37:BP:70:GLU:HB2	2.09	0.53
52:BI:37:PHE:HB2	52:BI:66:PHE:CZ	2.44	0.53
1:CA:1252:A:H2'	1:CA:1253:G:O4'	2.08	0.53
29:BG:17:LYS:HE3	29:BG:24:THR:CG2	2.37	0.53
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.24	0.53
52:BI:122:GLU:CD	52:BI:122:GLU:H	2.12	0.53
29:DG:171:LYS:HD3	29:DG:172:GLU:C	2.29	0.53
32:DK:43:ILE:HD11	32:DK:58:LEU:HD21	1.90	0.53
10:CK:70:ALA:C	10:CK:72:ALA:H	2.11	0.53
1:CA:672:U:H2'	1:CA:673:A:C8	2.43	0.53
24:BV:84:PRO:HG3	34:BM:127:LYS:CE	2.37	0.53
23:DB:1080:A:O2'	52:DI:126:ARG:HD2	2.08	0.53
26:BD:59:ARG:HH21	26:BD:60:VAL:HG12	1.73	0.53
26:BD:59:ARG:HH21	26:BD:60:VAL:CG1	2.22	0.53
26:BD:62:LYS:N	26:BD:63:PRO:HD2	2.23	0.53
25:DC:22:GLU:HB2	25:DC:202:ARG:CG	2.38	0.53
8:AI:71:ILE:CD1	8:AI:71:ILE:H	2.20	0.53
1:CA:545:C:H5''	3:CD:68:GLU:HG2	1.90	0.53
5:CF:10:VAL:HG12	5:CF:11:HIS:N	2.23	0.53
9:AJ:67:ILE:HG12	13:AN:94:GLY:O	2.08	0.53
23:BB:155:A:H2'	23:BB:156:A:H8	1.68	0.53
6:CG:14:ASP:HB3	6:CG:18:GLY:H	1.73	0.53
28:DF:31:GLU:O	28:DF:95:MET:HE1	2.08	0.53
40:DS:74:ILE:CG2	40:DS:105:VAL:HG23	2.38	0.53
1:CA:860:A:H2'	1:CA:861:G:O4'	2.09	0.53
1:AA:474:G:H2'	1:AA:475:C:H6	1.73	0.53
20:AB:79:VAL:HG11	20:AB:92:ASN:HB3	1.89	0.53
1:AA:730:G:O2'	1:AA:766:A:H5'	2.08	0.53
29:DG:25:ILE:HD11	29:DG:75:VAL:HG22	1.89	0.53
1:AA:203:G:N2	1:AA:205:A:N6	2.57	0.53
1:CA:677:U:H2'	1:CA:678:U:C6	2.44	0.53
23:BB:711:G:O2'	23:BB:712:G:H5'	2.09	0.53
23:DB:1682:G:C2	23:DB:1757:A:O4'	2.61	0.53
23:DB:905:A:O2'	23:DB:906:U:H5'	2.09	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AI:91:GLU:CD	8:AI:94:ARG:HH21	2.11	0.53
23:BB:1629:U:O2	23:BB:2698:U:H5''	2.08	0.53
23:BB:1231:U:H2'	23:BB:1232:G:H8	1.73	0.53
1:AA:1130:A:H5'	8:AI:19:PHE:CE2	2.43	0.53
23:BB:877:A:H2'	23:BB:899:A:N1	2.24	0.53
6:AG:144:ALA:C	6:AG:146:ALA:H	2.11	0.53
23:DB:2077:A:O2'	23:DB:2078:C:H5'	2.08	0.53
52:BI:23:VAL:HG23	52:BI:24:GLY:N	2.24	0.53
23:DB:1716:U:H2'	23:DB:1717:A:C8	2.43	0.53
23:DB:1172:C:H2'	23:DB:1173:U:O4'	2.07	0.53
2:AC:110:LEU:O	2:AC:203:LYS:HE2	2.08	0.53
9:CJ:82:LYS:HD2	9:CJ:82:LYS:N	2.23	0.53
23:BB:696:G:O2'	23:BB:697:G:H5'	2.07	0.53
1:CA:317:U:H2'	1:CA:318:G:H8	1.73	0.53
2:CC:116:ALA:HB1	2:CC:186:SER:OG	2.07	0.53
23:BB:152:A:H2'	23:BB:153:U:C6	2.43	0.53
51:D4:23:ILE:HD12	51:D4:24:ARG:HD2	1.90	0.53
51:D4:2:LYS:HG2	51:D4:38:GLY:HA3	1.90	0.53
43:DW:30:VAL:HG12	43:DW:31:LEU:N	2.23	0.53
25:BC:155:ARG:NE	25:BC:157:ALA:HB3	2.16	0.53
33:BL:64:PHE:H	50:B3:24:LYS:CD	2.14	0.53
34:BM:95:LEU:HD22	34:BM:98:PRO:CG	2.36	0.53
38:BQ:27:ARG:HA	38:BQ:33:VAL:HB	1.90	0.53
23:DB:2874:C:H2'	23:DB:2875:C:C6	2.42	0.53
23:BB:987:C:H2'	23:BB:988:A:O4'	2.08	0.53
23:BB:992:C:H2'	23:BB:993:G:H8	1.74	0.53
23:BB:2772:C:H5''	26:BD:171:THR:HG21	1.91	0.53
8:AI:30:ASN:N	8:AI:30:ASN:HD22	2.06	0.53
23:BB:2305:U:H1'	28:BF:132:ARG:HA	1.90	0.53
18:CS:28:LYS:HB3	18:CS:28:LYS:NZ	2.23	0.53
31:BJ:84:ILE:HG22	31:BJ:85:LYS:H	1.73	0.53
31:BJ:43:GLU:O	31:BJ:45:THR:N	2.42	0.53
12:AM:52:ILE:HD12	12:AM:55:LEU:HD12	1.90	0.53
23:DB:1198:U:C2	23:DB:1199:U:C5	2.97	0.53
26:DD:79:LEU:CG	26:DD:80:TRP:H	2.20	0.53
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.44	0.53
30:DH:90:LEU:HD22	30:DH:122:LEU:O	2.07	0.53
28:DF:168:LEU:HD23	28:DF:168:LEU:O	2.09	0.53
41:DT:6:ARG:HG2	41:DT:9:LYS:O	2.09	0.53
23:BB:2636:C:H4'	26:BD:80:TRP:CE3	2.43	0.53
45:DY:1:ALA:N	45:DY:43:ILE:HB	2.23	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:32:VAL:HA	37:DP:42:PHE:CB	2.34	0.53
39:BR:62:GLU:HG3	39:BR:103:ALA:HA	1.89	0.53
29:BG:78:VAL:HG23	29:BG:79:THR:HG23	1.91	0.53
31:DJ:23:LYS:HE3	31:DJ:63:ALA:CB	2.38	0.53
22:DA:53:A:O2'	22:DA:54:G:H5'	2.07	0.53
36:BO:8:ILE:C	36:BO:10:ARG:H	2.12	0.53
23:DB:247:G:H4'	23:DB:386:G:C4	2.43	0.53
37:BP:108:ARG:H	37:BP:108:ARG:CD	2.21	0.53
4:CE:104:ILE:HG13	4:CE:114:LEU:HB2	1.89	0.53
12:CM:95:PRO:HD3	12:CM:108:ARG:HG2	1.88	0.53
23:DB:545:U:H3'	23:DB:546:U:H5''	1.91	0.53
23:BB:1439:A:N6	23:BB:1440:U:O2	2.35	0.53
23:BB:1487:U:H2'	23:BB:1488:C:H6	1.73	0.53
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.72	0.53
8:CI:24:ASN:OD1	8:CI:26:LYS:HG2	2.09	0.53
1:AA:817:C:H1'	1:AA:819:A:C5'	2.38	0.53
23:BB:1842:G:H2'	23:BB:1843:C:C6	2.44	0.53
20:CB:62:ARG:H	20:CB:62:ARG:CD	2.22	0.53
29:DG:39:ALA:HA	29:DG:54:ARG:HB2	1.90	0.53
23:BB:1387:A:H2'	23:BB:1388:G:C8	2.41	0.53
23:DB:2247:A:H2'	23:DB:2248:C:H6	1.71	0.53
14:AO:11:VAL:HA	14:AO:26:VAL:HG13	1.90	0.53
24:BV:57:TYR:CD2	34:BM:133:LYS:HE2	2.43	0.53
22:DA:21:G:H2'	22:DA:22:U:O4'	2.08	0.53
20:CB:86:CYS:HB3	20:CB:88:GLN:NE2	2.22	0.53
23:BB:1571:A:H2'	23:BB:1572:A:H8	1.73	0.53
1:AA:982:U:H4'	1:AA:983:A:O4'	2.08	0.53
27:DE:191:ASP:HA	27:DE:194:LYS:CE	2.39	0.53
23:BB:1159:U:H2'	23:BB:1160:G:C8	2.43	0.53
23:BB:852:U:H2'	23:BB:853:C:H6	1.72	0.53
16:AQ:23:ALA:C	16:AQ:24:ILE:HD12	2.29	0.53
23:DB:130:C:O2'	23:DB:131:A:H5'	2.08	0.53
23:DB:1751:U:H2'	23:DB:1752:C:C6	2.43	0.53
1:AA:128:G:H2'	1:AA:129:A:C8	2.43	0.53
52:DI:102:ARG:HG3	52:DI:141:ASP:CB	2.38	0.53
7:AH:42:GLU:HG3	7:AH:100:ILE:HD13	1.90	0.53
22:BA:35:C:H2'	22:BA:36:C:O4'	2.08	0.53
23:DB:1051:G:H2'	23:DB:1052:C:H6	1.73	0.53
34:DM:86:LYS:HG2	34:DM:87:GLY:H	1.73	0.53
23:BB:1733:G:H2'	23:BB:1734:G:H8	1.74	0.53
14:AO:24:THR:HB	14:AO:69:LEU:HD21	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2405:G:H1'	23:BB:2412:A:N6	2.23	0.53
18:AS:12:LEU:HG	18:AS:15:LEU:HD23	1.91	0.53
30:DH:95:GLY:O	30:DH:99:ILE:HG12	2.08	0.53
1:CA:787:A:O2'	1:CA:788:U:H5'	2.08	0.53
27:BE:44:ARG:H	27:BE:44:ARG:CD	2.21	0.53
35:DN:24:MET:HG2	35:DN:44:LEU:HD13	1.91	0.53
35:DN:42:LYS:CE	35:DN:45:ARG:HG3	2.37	0.53
34:BM:67:VAL:HG23	34:BM:95:LEU:HD21	1.89	0.53
24:BV:82:TYR:CD2	24:BV:82:TYR:N	2.76	0.53
23:DB:2723:C:H5'	35:DN:4:ARG:NH2	2.24	0.53
41:DT:31:VAL:HG22	41:DT:32:LEU:N	2.24	0.53
40:BS:69:LEU:N	40:BS:69:LEU:HD22	2.24	0.53
26:DD:173:GLN:HG2	26:DD:208:LYS:HB3	1.90	0.53
33:DL:79:LEU:CD1	33:DL:112:LEU:HD23	2.39	0.53
50:D3:24:LYS:HZ2	50:D3:24:LYS:HB3	1.74	0.53
26:DD:124:ARG:NH1	26:DD:160:LYS:HE2	2.24	0.53
25:DC:53:ILE:CG1	25:DC:218:THR:HA	2.37	0.53
23:DB:1813:G:H1'	25:DC:45:ASN:HB3	1.90	0.53
45:DY:4:ILE:HG23	45:DY:5:LYS:HD3	1.91	0.53
32:DK:70:ARG:O	32:DK:71:ARG:HG2	2.08	0.53
1:CA:920:U:H2'	1:CA:921:U:C6	2.43	0.53
29:BG:26:LYS:HG2	29:BG:31:GLU:HG2	1.90	0.53
15:CP:44:SER:C	15:CP:46:LYS:H	2.12	0.53
5:CF:51:ILE:CD1	5:CF:86:ARG:HG3	2.39	0.53
40:DS:84:ARG:HH21	40:DS:98:LYS:HZ3	1.56	0.53
42:DU:57:ILE:HD13	42:DU:57:ILE:C	2.29	0.53
25:DC:28:PRO:O	25:DC:29:PHE:CG	2.61	0.53
23:BB:2304:G:H22	23:BB:2312:U:H3	1.56	0.53
23:BB:716:A:H3'	23:BB:717:C:H5''	1.90	0.53
23:BB:2794:C:H2'	23:BB:2795:C:C6	2.44	0.53
23:BB:1220:G:H2'	23:BB:1221:C:H6	1.72	0.53
29:DG:169:ARG:CZ	29:DG:169:ARG:HB2	2.37	0.53
32:DK:38:ILE:HD13	32:DK:61:VAL:HG12	1.91	0.53
20:AB:165:ALA:CB	20:AB:186:VAL:HG12	2.38	0.53
32:DK:93:GLN:CG	32:DK:94:PRO:HD2	2.38	0.53
1:CA:633:G:H2'	1:CA:634:C:C6	2.44	0.53
23:DB:1842:G:H2'	23:DB:1843:C:C6	2.43	0.53
23:BB:520:G:H2'	23:BB:521:U:C6	2.43	0.53
23:BB:254:G:O6	50:B3:3:ILE:HG23	2.09	0.53
1:AA:845:A:H3'	1:AA:846:G:O4'	2.08	0.53
29:BG:90:GLY:HA3	29:BG:93:TYR:CD2	2.44	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1545:A:H2'	23:DB:1546:G:O4'	2.09	0.53
1:AA:610:U:O2	1:AA:610:U:O4'	2.25	0.53
52:DI:1:ALA:HB1	52:DI:2:LYS:HD2	1.90	0.53
37:DP:31:VAL:HG12	37:DP:33:GLU:H	1.72	0.53
25:DC:152:GLN:HB3	25:DC:153:LEU:HD23	1.90	0.53
43:BW:76:ARG:CZ	43:BW:76:ARG:HB3	2.38	0.53
39:DR:78:ARG:O	39:DR:79:ARG:HB2	2.09	0.53
18:AS:10:ILE:HG22	18:AS:38:THR:H	1.73	0.53
23:BB:298:G:OP1	42:BU:82:VAL:HA	2.09	0.53
23:DB:2820:A:N6	26:DD:197:THR:HB	2.24	0.53
25:BC:58:LYS:NZ	25:BC:58:LYS:HB2	2.24	0.53
23:BB:1006:C:O2'	23:BB:1007:C:H5'	2.08	0.53
31:BJ:10:THR:HB	31:BJ:13:ARG:NH1	2.24	0.53
39:BR:5:PHE:CE2	39:BR:7:SER:HB3	2.44	0.53
20:CB:102:ASN:ND2	20:CB:105:THR:HB	2.24	0.53
23:DB:2641:G:OP1	31:DJ:78:THR:HG22	2.09	0.53
1:CA:437:U:C2'	1:CA:438:U:O4'	2.51	0.53
23:BB:910:A:H2	23:BB:2264:C:O2	1.92	0.53
23:DB:635:C:P	33:DL:126:ARG:HE	2.32	0.53
21:CU:25:ALA:C	21:CU:27:VAL:H	2.10	0.53
23:BB:2874:C:H2'	23:BB:2875:C:C6	2.43	0.53
9:CJ:51:VAL:CG2	13:CN:80:ARG:HB2	2.33	0.53
6:AG:129:ASN:HA	6:AG:134:VAL:HG21	1.89	0.53
44:DX:17:GLU:O	44:DX:22:LEU:HG	2.08	0.53
26:BD:77:ARG:HG2	26:BD:78:GLY:N	2.23	0.53
23:DB:1813:G:N3	25:DC:50:THR:CG2	2.69	0.53
32:DK:108:ARG:HH11	32:DK:108:ARG:HG3	1.73	0.53
39:DR:44:GLY:N	39:DR:53:PHE:HE2	2.06	0.53
39:DR:4:VAL:HG12	39:DR:43:ASN:CB	2.38	0.53
4:CE:35:LEU:HD13	4:CE:133:ILE:HA	1.91	0.53
1:CA:1283:U:O2'	1:CA:1284:C:H5'	2.08	0.53
8:CI:51:LEU:HD22	8:CI:56:MET:HG2	1.90	0.53
33:DL:39:LYS:HZ3	33:DL:39:LYS:N	2.06	0.53
23:DB:1082:U:C4	23:DB:1086:A:N1	2.77	0.53
52:DI:54:ILE:HD13	52:DI:55:PRO:N	2.22	0.53
23:BB:2692:G:O2'	23:BB:2693:G:H5'	2.08	0.53
29:DG:11:PRO:HD2	29:DG:14:VAL:HG21	1.90	0.53
1:AA:1027:C:H2'	1:AA:1028:C:C6	2.43	0.53
48:D1:8:ILE:CD1	48:D1:9:LYS:H	2.22	0.53
34:BM:108:VAL:O	34:BM:110:GLU:N	2.42	0.53
23:DB:945:A:H3'	23:DB:946:C:H5''	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1791:A:C5'	25:DC:211:ARG:HE	2.20	0.53
4:CE:110:MET:HG2	4:CE:139:THR:OG1	2.09	0.53
36:DO:30:ARG:HD2	36:DO:97:PHE:HD2	1.74	0.53
23:BB:2899:A:H2'	23:BB:2900:A:H8	1.74	0.53
1:CA:1060:U:H2'	1:CA:1061:G:C8	2.44	0.53
25:DC:28:PRO:HD2	25:DC:79:ARG:HE	1.73	0.53
1:CA:471:U:H2'	1:CA:472:U:H6	1.73	0.53
1:CA:1026:G:H2'	1:CA:1027:C:C6	2.41	0.53
23:BB:710:U:H2'	23:BB:711:G:C8	2.42	0.53
23:DB:417:C:H2'	23:DB:418:C:C6	2.44	0.53
40:DS:27:LYS:HA	40:DS:70:LYS:CB	2.38	0.53
1:AA:633:G:H2'	1:AA:634:C:C6	2.44	0.53
23:BB:1684:G:H2'	23:BB:1685:C:C6	2.44	0.53
23:DB:1946:U:H2'	23:DB:1947:C:C6	2.43	0.53
23:BB:2097:A:H2'	23:BB:2098:U:H6	1.73	0.53
23:BB:948:C:H2'	23:BB:949:G:H8	1.74	0.53
1:AA:600:A:H2'	1:AA:601:G:H8	1.73	0.53
43:DW:21:GLY:HA2	43:DW:25:PHE:CE1	2.43	0.53
23:BB:1028:A:N6	23:BB:1125:G:H2'	2.24	0.53
2:AC:40:GLN:O	2:AC:44:LYS:HG3	2.08	0.53
22:DA:94:A:O2'	22:DA:95:U:H5'	2.08	0.53
2:AC:85:LYS:O	2:AC:89:VAL:HG23	2.08	0.53
1:CA:613:C:H2'	1:CA:614:C:C6	2.44	0.53
1:CA:521:G:OP1	11:CL:69:GLU:HB3	2.08	0.53
23:BB:460:A:H2'	23:BB:461:C:O4'	2.09	0.53
23:BB:817:C:O2'	23:BB:839:U:H5''	2.09	0.53
40:BS:56:ALA:C	40:BS:58:ALA:H	2.12	0.53
1:CA:736:C:H2'	1:CA:737:C:C6	2.43	0.53
41:DT:7:LEU:HD22	41:DT:7:LEU:H	1.73	0.53
13:AN:59:GLN:NE2	13:AN:59:GLN:N	2.56	0.53
1:CA:140:U:H2'	1:CA:141:G:H8	1.73	0.53
1:CA:149:A:H1'	1:CA:1446:A:C2	2.44	0.53
27:BE:44:ARG:N	27:BE:44:ARG:HD3	2.24	0.53
20:CB:40:ILE:HG21	20:CB:200:PRO:O	2.09	0.53
35:DN:32:GLU:O	35:DN:114:GLU:HA	2.08	0.53
31:BJ:72:LYS:CB	31:BJ:90:GLU:HB2	2.34	0.53
38:DQ:40:LYS:HB2	38:DQ:40:LYS:NZ	2.23	0.53
18:AS:31:ARG:HH11	18:AS:31:ARG:HG2	1.74	0.53
18:AS:10:ILE:HD13	18:AS:40:PHE:CE1	2.44	0.53
27:DE:161:ALA:O	27:DE:162:ARG:HB2	2.07	0.53
46:BZ:5:ILE:HD13	46:BZ:51:VAL:HG12	1.91	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DO:25:ARG:O	36:DO:26:LEU:HD12	2.09	0.53
9:AJ:35:GLN:H	9:AJ:78:GLU:HB3	1.74	0.53
23:DB:1341:G:H2'	23:DB:1397:U:O2'	2.09	0.53
31:DJ:40:HIS:O	38:DQ:66:ALA:HB1	2.09	0.53
31:BJ:78:THR:O	31:BJ:80:HIS:N	2.42	0.53
13:AN:82:LYS:HE2	13:AN:82:LYS:HA	1.91	0.53
3:CD:104:MET:SD	3:CD:179:GLY:HA2	2.47	0.53
23:DB:633:A:C2'	23:DB:634:C:H5'	2.37	0.53
26:BD:131:ASP:OD2	26:BD:133:THR:HG22	2.08	0.53
40:DS:31:GLN:O	40:DS:35:ILE:HG13	2.08	0.53
27:DE:15:SER:O	27:DE:17:THR:HG22	2.09	0.53
33:DL:58:TYR:HB3	50:D3:13:PHE:HZ	1.73	0.53
51:D4:16:ILE:C	51:D4:18:LYS:H	2.12	0.53
25:DC:224:MET:O	25:DC:225:ASN:HB2	2.07	0.53
23:BB:1060:U:O2	23:BB:1088:A:C8	2.62	0.53
4:CE:136:VAL:HG23	4:CE:137:ARG:N	2.23	0.53
48:B1:42:VAL:CG1	48:B1:43:ARG:N	2.72	0.53
11:AL:80:LEU:HD23	11:AL:97:VAL:HG21	1.90	0.53
15:CP:3:THR:HB	15:CP:66:THR:O	2.07	0.53
1:CA:952:U:H2'	1:CA:953:G:C8	2.41	0.53
1:CA:276:G:H5'	16:CQ:16:MET:SD	2.48	0.53
26:BD:60:VAL:HB	26:BD:63:PRO:CG	2.38	0.53
23:DB:1826:G:H2'	23:DB:1827:U:C6	2.44	0.53
1:CA:817:C:H1'	1:CA:819:A:C5'	2.38	0.53
29:BG:157:LYS:CG	29:BG:159:LYS:HZ2	2.21	0.53
49:D2:6:GLN:HB3	49:D2:7:PRO:HD2	1.89	0.53
23:BB:847:U:O4'	23:BB:847:U:O2	2.27	0.53
22:BA:17:C:C2'	22:BA:18:G:H5'	2.39	0.53
23:BB:309:A:N3	23:BB:329:G:O2'	2.42	0.53
23:DB:937:C:H2'	23:DB:938:G:C8	2.43	0.53
12:CM:15:VAL:HG13	12:CM:40:GLU:HB2	1.89	0.53
45:BY:4:ILE:HG12	45:BY:5:LYS:HE2	1.90	0.53
25:DC:123:ILE:HG12	25:DC:135:PRO:CD	2.39	0.53
23:BB:664:G:H2'	23:BB:665:U:C6	2.44	0.53
2:CC:89:VAL:HG23	2:CC:90:VAL:N	2.23	0.53
1:AA:113:G:H2'	1:AA:114:U:C6	2.43	0.53
2:CC:49:ALA:HB2	2:CC:74:ILE:HG21	1.91	0.53
1:AA:287:U:O2'	1:AA:288:A:H5'	2.08	0.53
23:BB:257:C:H2'	23:BB:258:G:O4'	2.09	0.53
23:DB:2348:U:O2'	23:DB:2349:G:H5'	2.09	0.53
23:BB:560:C:H3'	23:BB:561: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:AC:139:ASN:O	2:AC:143:LEU:HD22	2.09	0.53
11:AL:79:ILE:HG22	11:AL:103:CYS:HB2	1.90	0.53
23:DB:2718:G:O2'	23:DB:2719:G:H5'	2.09	0.53
23:BB:1671:U:H2'	23:BB:1673:G:OP2	2.08	0.53
23:BB:1583:A:H4'	23:BB:1585:C:C4	2.44	0.53
23:DB:1733:G:H2'	23:DB:1734:G:H8	1.73	0.53
1:AA:252:U:H2'	1:AA:253:A:H8	1.74	0.53
23:BB:2634:A:H2'	23:BB:2635:A:C8	2.44	0.53
23:DB:1583:A:H4'	23:DB:1585:C:C4	2.44	0.53
23:BB:1864:U:O2'	23:BB:1865:U:H5'	2.08	0.53
42:BU:71:ILE:HD13	42:BU:71:ILE:C	2.29	0.53
35:DN:24:MET:CE	35:DN:36:THR:HG21	2.39	0.53
23:BB:340:A:O2'	23:BB:341:C:H5'	2.08	0.53
23:BB:633:A:O5'	23:BB:633:A:C8	2.57	0.53
23:DB:1138:G:H2'	23:DB:1139:G:O4'	2.09	0.53
24:DV:63:ILE:N	24:DV:63:ILE:HD12	2.24	0.53
25:DC:268:ARG:O	25:DC:269:ARG:HB2	2.09	0.53
42:BU:39:ASN:HD21	42:BU:42:LYS:HE2	1.71	0.53
42:BU:59:GLU:O	42:BU:60:LYS:HB2	2.08	0.53
42:BU:60:LYS:CG	42:BU:61:GLU:H	2.22	0.53
39:BR:39:LEU:HD12	39:BR:60:LYS:HB2	1.90	0.53
27:BE:108:ILE:HD12	27:BE:108:ILE:H	1.73	0.53
24:BV:30:ILE:HD11	24:BV:63:ILE:HD12	1.90	0.53
30:DH:94:ILE:HG23	30:DH:98:ASP:HB2	1.90	0.53
33:DL:109:LYS:HG2	33:DL:126:ARG:CD	2.38	0.53
23:BB:136:G:H2'	23:BB:137:U:C5	2.43	0.53
37:BP:70:GLU:O	37:BP:71:ARG:HB2	2.08	0.53
1:CA:764:C:C2'	1:CA:765:G:H5'	2.39	0.53
26:DD:154:LYS:C	26:DD:156:PHE:H	2.12	0.53
25:DC:53:ILE:CD1	25:DC:218:THR:HA	2.39	0.53
1:CA:1313:U:OP2	18:CS:5:LYS:HA	2.09	0.53
29:DG:3:VAL:O	29:DG:4:ALA:HB2	2.08	0.53
34:DM:33:LEU:HG	34:DM:113:ALA:HB1	1.91	0.53
26:DD:21:SER:C	26:DD:23:PRO:HD3	2.29	0.53
29:BG:29:ASN:N	29:BG:29:ASN:HD22	2.05	0.53
35:DN:29:VAL:HG21	35:DN:75:ILE:HB	1.90	0.53
32:DK:41:ILE:HG13	32:DK:42:THR:H	1.74	0.53
4:CE:33:THR:HB	4:CE:49:TYR:CE1	2.43	0.53
1:CA:1311:A:N6	18:CS:1:PRO:HD3	2.21	0.53
44:DX:7:ARG:NH1	44:DX:7:ARG:HB3	2.24	0.53
5:CF:9:MET:HB2	5:CF:57:ALA:HB1	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AJ:87:LEU:HB3	9:AJ:88:MET:HE3	1.89	0.53
16:CQ:16:MET:HB2	16:CQ:19:SER:HB2	1.91	0.53
1:CA:1277:C:H1'	1:CA:1282:C:O2	2.09	0.53
23:DB:2529:G:H5'	29:DG:175:LYS:HB3	1.89	0.53
1:AA:613:C:H2'	1:AA:614:C:C6	2.44	0.53
35:DN:107:ASN:ND2	40:DS:40:ASN:HB3	2.23	0.53
2:CC:122:GLN:HB3	2:CC:127:VAL:HG11	1.89	0.53
23:DB:2467:C:OP2	51:D4:7:VAL:HG12	2.09	0.53
23:BB:1796:U:H2'	23:BB:1797:G:H8	1.73	0.53
7:AH:63:LYS:HG2	7:AH:70:VAL:HG21	1.90	0.53
23:BB:2229:U:H2'	23:BB:2230:G:H8	1.74	0.53
23:DB:521:U:H2'	23:DB:522:A:C8	2.43	0.53
1:AA:672:U:H2'	1:AA:673:A:C8	2.43	0.53
1:AA:711:G:O2'	1:AA:712:A:H5'	2.09	0.53
2:CC:166:TRP:HE1	2:CC:168:ARG:HB2	1.73	0.53
23:DB:1857:G:HO2'	23:DB:1858:A:H8	1.53	0.53
49:B2:25:LYS:H	49:B2:25:LYS:CE	2.21	0.53
25:BC:16:VAL:O	25:BC:16:VAL:HG12	2.08	0.53
23:DB:1571:A:H2'	23:DB:1572:A:H8	1.73	0.53
23:DB:1684:G:H2'	23:DB:1685:C:C6	2.44	0.53
27:DE:189:THR:HG23	27:DE:194:LYS:HB2	1.89	0.53
23:BB:1745:A:O2'	23:BB:1746:A:H5'	2.09	0.53
23:DB:2241:A:H2'	23:DB:2242:G:H8	1.72	0.53
1:CA:1158:C:O3'	20:CB:131:LYS:HD3	2.08	0.53
1:AA:640:A:O2'	1:AA:641:U:H5'	2.08	0.53
29:BG:100:ASN:O	29:BG:115:GLN:HA	2.09	0.53
23:DB:2628:C:O2'	23:DB:2781:A:H2'	2.09	0.53
22:DA:10:G:H2'	22:DA:11:C:O4'	2.09	0.53
23:BB:737:C:O2'	23:BB:738:G:H5'	2.09	0.53
23:BB:197:A:N6	23:BB:2430:A:H2'	2.24	0.53
23:BB:2628:C:O2'	23:BB:2781:A:H2'	2.09	0.53
7:CH:71:VAL:HG23	7:CH:71:VAL:O	2.09	0.53
1:CA:975:A:C2'	1:CA:976:G:OP2	2.57	0.53
26:BD:109:VAL:HG11	26:BD:193:VAL:HG23	1.90	0.53
43:DW:42:THR:N	43:DW:65:LYS:HG2	2.23	0.53
31:BJ:101:ILE:HG23	31:BJ:102:GLU:OE1	2.08	0.53
31:BJ:56:VAL:C	31:BJ:57:LEU:HD22	2.29	0.53
23:BB:337:C:H2'	23:BB:338:G:O4'	2.09	0.53
34:BM:114:ARG:HA	34:BM:117:PHE:HB3	1.91	0.53
38:BQ:92:LYS:HE3	38:BQ:93:ILE:HB	1.91	0.53
23:BB:2263:C:H2'	23:BB:2264:C:H6	1.74	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:170:LEU:HA	3:CD:182:LYS:HG3	1.91	0.53
51:B4:14:CYS:SG	51:B4:27:CYS:HB3	2.48	0.53
10:AK:105:ARG:NH2	21:AU:10:PRO:HG3	2.24	0.53
23:DB:632:A:O3'	33:DL:69:ARG:HD3	2.09	0.53
23:BB:2820:A:O5'	35:BN:4:ARG:HA	2.08	0.53
23:DB:2028:U:H2'	23:DB:2029:G:C8	2.44	0.53
23:DB:443:A:H5''	23:DB:444:C:OP1	2.09	0.53
11:AL:28:GLN:HG3	11:AL:80:LEU:HD21	1.90	0.53
28:DF:39:VAL:HG13	28:DF:84:ILE:CG1	2.39	0.53
44:BX:14:LEU:O	44:BX:17:GLU:HB2	2.09	0.53
20:CB:209:VAL:C	20:CB:213:LEU:HD12	2.29	0.53
23:DB:2886:A:C5	47:D0:27:LEU:HG	2.43	0.53
46:DZ:41:HIS:O	46:DZ:43:PHE:HD1	1.92	0.53
23:DB:544:C:H2'	23:DB:545:U:N3	2.24	0.53
11:CL:97:VAL:O	11:CL:97:VAL:HG23	2.09	0.53
23:BB:1549:A:H2'	23:BB:1550:C:C6	2.44	0.53
23:DB:1430:G:H2'	23:DB:1431:A:H8	1.74	0.53
1:AA:963:G:H21	9:AJ:56:HIS:HE1	1.55	0.53
23:BB:1826:G:H2'	23:BB:1827:U:C6	2.44	0.53
23:BB:2213:U:O2	23:BB:2213:U:H2'	2.07	0.53
29:BG:163:TYR:HB2	29:BG:166:GLU:HB2	1.90	0.53
13:AN:51:PRO:HB2	13:AN:54:SER:HB3	1.91	0.53
25:DC:32:LEU:N	25:DC:32:LEU:HD23	2.23	0.53
23:DB:1105:U:H2'	23:DB:1106:G:C8	2.41	0.53
23:DB:934:U:H2'	23:DB:935:C:C6	2.44	0.53
28:DF:177:ARG:CZ	28:DF:178:LYS:HA	2.39	0.53
45:DY:50:VAL:CG1	45:DY:53:MET:HG2	2.39	0.53
23:DB:766:U:H2'	23:DB:767:U:C6	2.44	0.53
23:BB:2308:G:N3	23:BB:2308:G:H5''	2.24	0.53
2:CC:63:ILE:HG12	2:CC:65:VAL:HG23	1.91	0.53
1:AA:476:U:H2'	1:AA:477:C:H6	1.73	0.53
23:BB:1846:G:H2'	23:BB:1847:A:O4'	2.09	0.53
23:DB:18:U:H2'	23:DB:19:A:H8	1.74	0.53
1:CA:462:G:H2'	1:CA:463:U:C6	2.44	0.53
1:AA:44:A:O2'	1:AA:45:G:H5'	2.09	0.53
24:DV:1:MET:SD	24:DV:62:THR:HG23	2.49	0.53
25:DC:124:LYS:HB2	25:DC:125:PRO:CD	2.39	0.53
23:BB:184:C:H2'	23:BB:185:G:H8	1.72	0.53
25:DC:231:HIS:HD1	25:DC:242:HIS:HA	1.74	0.53
25:DC:181:ARG:O	25:DC:181:ARG:HG3	2.09	0.53
14:AO:57:ARG:HD3	14:AO:57:ARG:C	2.30	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BN:57:THR:HG23	35:BN:58:ASP:H	1.74	0.53
37:DP:89:GLY:HA2	37:DP:112:ARG:NH2	2.23	0.53
36:BO:62:LEU:HD12	36:BO:64:TYR:HB2	1.90	0.53
20:CB:16:GLY:CA	20:CB:40:ILE:H	2.21	0.53
33:BL:14:LYS:CA	33:BL:14:LYS:HZ3	2.08	0.53
47:D0:51:ARG:O	47:D0:51:ARG:HD3	2.08	0.53
23:DB:2634:A:H2'	23:DB:2635:A:C8	2.44	0.53
23:BB:2484:G:O2'	34:BM:45:GLN:NE2	2.41	0.53
34:BM:65:ILE:HA	34:BM:101:VAL:HA	1.90	0.53
16:AQ:45:VAL:HG11	16:AQ:74:LEU:HB2	1.90	0.53
16:AQ:57:VAL:HB	16:AQ:79:GLU:H	1.74	0.53
16:AQ:68:LYS:O	16:AQ:69:THR:HB	2.09	0.53
23:DB:1846:G:H2'	23:DB:1847:A:O4'	2.09	0.53
23:DB:1368:G:OP1	49:D2:25:LYS:HG3	2.09	0.53
23:BB:2688:G:H1'	23:BB:2721:A:H61	1.74	0.53
26:DD:149:ASN:H	26:DD:151:THR:HG23	1.73	0.53
23:DB:2512:C:H2'	23:DB:2513:A:O4'	2.08	0.53
1:CA:556:C:O2'	1:CA:557:G:H5'	2.08	0.53
23:DB:2313:C:H5'	28:DF:36:ASN:ND2	2.23	0.53
5:AF:3:HIS:HB2	5:AF:92:THR:OG1	2.09	0.53
29:BG:25:ILE:O	29:BG:31:GLU:HA	2.09	0.53
15:CP:44:SER:CB	15:CP:46:LYS:HG2	2.35	0.53
2:AC:90:VAL:HG23	2:AC:98:ALA:HB3	1.90	0.53
23:DB:250:G:C5'	50:D3:7:ARG:HG2	2.35	0.53
35:BN:118:ARG:O	35:BN:118:ARG:HG3	2.09	0.53
43:BW:16:GLU:O	43:BW:18:LYS:HD2	2.09	0.53
23:BB:2898:U:H2'	23:BB:2899:A:C8	2.44	0.53
23:DB:1594:U:H2'	23:DB:1595:C:H6	1.74	0.53
22:BA:78:A:H2'	22:BA:79:G:O4'	2.09	0.53
1:CA:203:G:N2	1:CA:205:A:N6	2.56	0.53
20:CB:53:LEU:HD13	20:CB:212:TYR:OH	2.09	0.53
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.44	0.53
24:DV:53:LYS:NZ	24:DV:55:GLU:HG2	2.23	0.53
1:CA:883:C:O2'	1:CA:884:U:H5'	2.09	0.53
2:CC:53:ARG:HA	2:CC:113:LYS:NZ	2.23	0.53
23:BB:503:A:C3'	23:BB:504:A:H5'	2.39	0.53
29:BG:102:ILE:O	29:BG:113:ASP:HA	2.08	0.53
28:BF:4:HIS:O	28:BF:7:TYR:HB3	2.09	0.53
1:AA:1033:G:H3'	1:AA:1034:G:H5''	1.91	0.53
1:CA:1478:U:H2'	1:CA:1479:C:C6	2.43	0.53
1:AA:777:A:H2'	1:AA:778:G:C8	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:86:MET:SD	40:BS:96:ILE:HD11	2.49	0.53
40:BS:20:VAL:O	40:BS:23:LEU:HB2	2.09	0.53
23:DB:228:C:H4'	23:DB:229:C:H5''	1.90	0.53
2:CC:91:ALA:HB2	2:CC:98:ALA:HB3	1.90	0.53
20:CB:150:ILE:O	20:CB:150:ILE:HG12	2.09	0.53
6:AG:143:MET:O	6:AG:147:ASN:HB2	2.09	0.53
2:CC:23:ALA:HB1	2:CC:27:GLU:HB2	1.91	0.53
1:CA:640:A:O2'	1:CA:641:U:H5'	2.08	0.53
2:AC:119:ILE:O	2:AC:123:LEU:HG	2.09	0.53
23:DB:2489:U:O2'	23:DB:2490:G:H5'	2.08	0.53
1:CA:858:G:O6	1:CA:869:G:H3'	2.09	0.53
31:DJ:109:LEU:HD22	31:DJ:115:GLY:O	2.09	0.53
1:AA:588:G:H5'	7:AH:2:MET:O	2.09	0.53
25:DC:37:SER:H	25:DC:62:ARG:CB	2.21	0.52
23:DB:1186:G:H2'	23:DB:1187:G:O4'	2.09	0.52
33:BL:126:ARG:HH21	33:BL:131:ALA:HB2	1.73	0.52
33:BL:56:PRO:O	33:BL:59:ARG:HB2	2.08	0.52
34:BM:7:THR:O	34:BM:8:LYS:HD3	2.09	0.52
40:BS:11:ARG:HD3	40:BS:11:ARG:O	2.08	0.52
23:BB:2305:U:H2'	23:BB:2306:C:C6	2.43	0.52
28:BF:106:ALA:HB1	28:BF:136:ILE:HG23	1.90	0.52
5:CF:25:TYR:O	5:CF:29:ILE:HG13	2.09	0.52
38:BQ:84:LYS:N	38:BQ:84:LYS:HE3	2.24	0.52
38:BQ:88:GLU:HG2	39:BR:53:PHE:CD2	2.45	0.52
44:BX:29:ARG:CA	44:BX:34:SER:HB2	2.39	0.52
34:BM:15:GLY:O	34:BM:16:ARG:HB3	2.09	0.52
27:BE:144:GLU:HG3	27:BE:145:ASP:H	1.73	0.52
33:DL:69:ARG:HG3	33:DL:71:ALA:O	2.09	0.52
33:DL:92:LEU:HA	33:DL:96:LYS:HG2	1.91	0.52
6:AG:130:LYS:N	6:AG:134:VAL:HG11	2.23	0.52
51:D4:19:ARG:HB3	51:D4:19:ARG:HH11	1.73	0.52
23:DB:1060:U:O2	23:DB:1088:A:C8	2.63	0.52
23:BB:2675:A:N1	23:BB:2732:G:O6	2.42	0.52
13:CN:43:ALA:O	13:CN:47:LEU:HB2	2.09	0.52
23:DB:929:U:H1'	45:DY:24:LEU:O	2.09	0.52
23:BB:2144:G:N2	23:BB:2148:G:N3	2.57	0.52
48:B1:42:VAL:O	48:B1:43:ARG:HB2	2.09	0.52
33:DL:90:VAL:CG1	33:DL:122:VAL:HG22	2.39	0.52
20:AB:30:ILE:HG22	20:AB:32:GLY:H	1.74	0.52
28:DF:39:VAL:HG13	28:DF:84:ILE:HB	1.91	0.52
23:BB:1183:U:H2'	23:BB:1184:U:C6	2.43	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:120:VAL:HG12	27:DE:121:VAL:N	2.18	0.52
4:CE:156:ARG:HD2	7:CH:42:GLU:O	2.09	0.52
16:CQ:60:ILE:HD13	16:CQ:60:ILE:H	1.74	0.52
1:CA:1171:A:H2'	1:CA:1172:C:C6	2.44	0.52
23:DB:1864:U:O2'	23:DB:1865:U:H5'	2.08	0.52
23:BB:1844:C:OP1	25:BC:252:LYS:HA	2.09	0.52
1:AA:537:G:H2'	1:AA:538:G:H8	1.74	0.52
2:CC:151:GLU:HA	2:CC:166:TRP:HA	1.90	0.52
1:CA:1244:G:H2'	1:CA:1245:C:H6	1.71	0.52
1:CA:1142:G:H2'	1:CA:1143:G:C8	2.44	0.52
23:BB:877:A:N1	23:BB:900:A:N7	2.57	0.52
1:CA:113:G:H2'	1:CA:114:U:C6	2.44	0.52
4:AE:156:ARG:HB2	7:AH:43:GLY:HA3	1.91	0.52
23:BB:2218:G:H2'	23:BB:2219:U:H6	1.73	0.52
23:DB:1042:G:H2'	23:DB:1043:C:C6	2.45	0.52
19:AT:28:ARG:HA	19:AT:31:ILE:HD12	1.91	0.52
12:AM:27:THR:O	12:AM:30:LYS:HB3	2.09	0.52
8:AI:115:VAL:HG21	9:AJ:62:ARG:HB2	1.90	0.52
39:BR:63:VAL:HB	39:BR:101:ILE:HG12	1.91	0.52
23:DB:204:A:H4'	23:DB:205:G:OP1	2.09	0.52
33:BL:106:GLU:HG2	33:BL:107:PHE:H	1.74	0.52
23:DB:2047:C:H2'	23:DB:2048:G:H8	1.74	0.52
23:BB:1050:A:H2'	23:BB:1051:G:O4'	2.10	0.52
37:DP:91:VAL:HG23	37:DP:113:LEU:HB3	1.92	0.52
37:DP:77:SER:HB2	37:DP:78:PRO:HD3	1.90	0.52
23:BB:2750:A:H3'	29:BG:3:VAL:HG13	1.90	0.52
37:BP:47:ILE:HG23	37:BP:63:ILE:HG23	1.91	0.52
23:BB:2849:U:O4	37:BP:96:LEU:HD21	2.09	0.52
23:DB:323:C:H5	27:DE:165:HIS:HB2	1.74	0.52
34:BM:32:GLY:HA2	34:BM:101:VAL:O	2.09	0.52
16:AQ:45:VAL:HG12	16:AQ:46:HIS:N	2.21	0.52
9:AJ:5:ARG:N	9:AJ:5:ARG:HD3	2.24	0.52
23:DB:2359:C:H4'	50:D3:51:LYS:HD2	1.91	0.52
38:BQ:50:ARG:HA	38:BQ:53:LYS:CE	2.39	0.52
18:CS:43:MET:HB3	18:CS:61:VAL:HG11	1.91	0.52
25:BC:81:GLU:HB3	25:BC:90:ILE:CG2	2.40	0.52
23:BB:1151:A:H2'	23:BB:1152:C:H6	1.74	0.52
13:AN:81:ILE:O	13:AN:84:ARG:HB3	2.09	0.52
41:BT:3:ARG:HG2	41:BT:7:LEU:HB3	1.92	0.52
50:D3:33:THR:CG2	50:D3:40:LYS:HD2	2.38	0.52
5:CF:38:ARG:NH1	5:CF:98:GLU:H	1.98	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2649:C:H2'	23:BB:2650:U:H6	1.73	0.52
23:DB:997:G:OP1	38:DQ:92:LYS:HB3	2.09	0.52
23:BB:279:A:N1	23:BB:362:A:H5'	2.24	0.52
1:CA:1337:G:H5''	1:CA:1338:G:OP1	2.09	0.52
48:D1:10:LEU:HD13	48:D1:50:GLU:OE1	2.10	0.52
5:CF:85:ILE:HG22	5:CF:86:ARG:H	1.73	0.52
23:BB:328:U:H4'	42:BU:65:GLN:HE21	1.74	0.52
16:CQ:10:ARG:CZ	16:CQ:11:VAL:H	2.22	0.52
38:DQ:26:ALA:CA	38:DQ:30:VAL:HG23	2.39	0.52
23:DB:178:G:O2'	23:DB:179:C:H5'	2.09	0.52
23:BB:154:U:H2'	23:BB:155:A:H8	1.74	0.52
23:BB:2213:U:H2'	23:BB:2214:C:H5'	1.92	0.52
31:BJ:114:LEU:O	31:BJ:117:ALA:HB3	2.10	0.52
37:DP:7:LEU:CD2	37:DP:11:GLN:HE21	2.22	0.52
9:CJ:41:PRO:HA	9:CJ:72:ARG:CD	2.38	0.52
1:AA:1115:U:H2'	1:AA:1116:U:C6	2.45	0.52
20:CB:23:ASN:HD22	20:CB:24:PRO:CD	2.22	0.52
30:DH:135:HIS:CD2	30:DH:137:GLU:H	2.26	0.52
23:DB:1911:U:H2'	23:DB:1918:A:N1	2.22	0.52
23:BB:49:A:H4'	23:BB:49:A:OP1	2.09	0.52
30:BH:41:LYS:H	30:BH:41:LYS:HD2	1.74	0.52
23:DB:1754:A:OP1	37:DP:95:LYS:HB2	2.10	0.52
26:BD:15:PHE:HB3	26:BD:18:ASP:HB3	1.90	0.52
41:BT:50:LEU:C	41:BT:52:GLU:H	2.13	0.52
6:AG:16:LYS:HG3	6:AG:43:TYR:OH	2.08	0.52
52:BI:81:LYS:HG3	52:BI:82:ALA:N	2.24	0.52
1:CA:1480:A:H2'	1:CA:1481:U:C6	2.43	0.52
1:CA:685:G:O2'	1:CA:686:U:H5'	2.09	0.52
9:CJ:5:ARG:O	9:CJ:5:ARG:HG2	2.09	0.52
23:BB:2348:U:O2'	23:BB:2349:G:H5'	2.09	0.52
1:AA:1438:G:O2'	1:AA:1439:G:H5'	2.08	0.52
20:AB:160:LEU:O	20:AB:182:VAL:HA	2.09	0.52
23:BB:1664:A:H1'	23:BB:2726:A:N1	2.23	0.52
22:DA:87:U:O2'	22:DA:88:C:H2'	2.08	0.52
13:CN:5:MET:HA	13:CN:8:ARG:HG3	1.92	0.52
23:BB:2719:G:H4'	23:BB:2846:G:O3'	2.09	0.52
25:BC:46:GLY:O	25:BC:47:ARG:CB	2.56	0.52
25:BC:114:GLN:HB2	25:BC:124:LYS:NZ	2.24	0.52
23:DB:324:A:N6	23:DB:339:U:H5'	2.24	0.52
23:BB:2618:G:O2'	26:BD:154:LYS:O	2.26	0.52
5:CF:3:HIS:NE2	5:CF:95:ALA:HB2	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:136:G:C2	41:DT:3:ARG:NH2	2.77	0.52
23:BB:995:C:N4	31:BJ:2:LYS:HB3	2.25	0.52
39:BR:90:ARG:NH1	39:BR:91:GLN:H	2.08	0.52
25:BC:53:ILE:HD13	25:BC:218:THR:CG2	2.30	0.52
8:AI:48:ARG:HA	8:AI:51:LEU:HD13	1.92	0.52
8:AI:47:VAL:HG12	8:AI:78:ILE:HB	1.91	0.52
23:BB:2028:U:H2'	23:BB:2029:G:C8	2.44	0.52
1:CA:1000:A:H2'	1:CA:1001:C:H6	1.71	0.52
23:BB:1010:A:H5'	38:BQ:61:ILE:HD12	1.91	0.52
31:BJ:34:ARG:HB3	31:BJ:39:LYS:HD2	1.91	0.52
3:CD:171:GLU:HG3	3:CD:182:LYS:CD	2.39	0.52
33:DL:108:ALA:O	33:DL:109:LYS:HB2	2.09	0.52
23:BB:2579:C:O2'	26:BD:138:LEU:HD13	2.10	0.52
23:DB:2675:A:N1	23:DB:2732:G:O6	2.42	0.52
23:DB:2734:A:H2'	23:DB:2735:G:H5'	1.91	0.52
5:CF:38:ARG:NH2	5:CF:63:ASN:HD21	2.07	0.52
13:CN:31:SER:O	13:CN:40:ARG:HD3	2.09	0.52
32:DK:71:ARG:CB	32:DK:72:PRO:CD	2.87	0.52
37:DP:52:ARG:CB	37:DP:60:VAL:HG11	2.36	0.52
1:CA:1330:U:OP1	12:CM:22:TYR:O	2.27	0.52
4:CE:35:LEU:CD1	4:CE:133:ILE:HA	2.40	0.52
1:CA:663:A:O2'	1:CA:664:G:H5'	2.10	0.52
42:DU:21:ARG:HG3	42:DU:21:ARG:NH1	2.23	0.52
2:AC:71:ARG:HB3	2:AC:74:ILE:HG22	1.92	0.52
2:AC:78:LYS:HG3	2:AC:78:LYS:O	2.10	0.52
2:AC:76:ILE:C	2:AC:82:ASP:HB2	2.30	0.52
3:AD:117:VAL:HG12	3:AD:130:ASN:C	2.30	0.52
9:AJ:56:HIS:N	13:AN:80:ARG:HH22	2.07	0.52
1:CA:1060:U:C4'	9:CJ:54:SER:HB2	2.39	0.52
24:BV:14:LYS:HZ2	24:BV:18:ARG:HD2	1.72	0.52
37:DP:6:GLN:N	37:DP:6:GLN:CD	2.63	0.52
1:CA:1057:G:H5''	2:CC:153:SER:HB2	1.91	0.52
23:DB:1374:G:H2'	23:DB:1375:U:C6	2.45	0.52
23:BB:600:G:H2'	23:BB:601:C:C6	2.45	0.52
1:AA:556:C:O2'	1:AA:557:G:H5'	2.08	0.52
1:CA:537:G:H2'	1:CA:538:G:H8	1.75	0.52
32:BK:41:ILE:HG23	32:BK:42:THR:N	2.24	0.52
6:CG:145:GLU:H	6:CG:148:LYS:HB2	1.75	0.52
1:CA:1049:U:O2'	1:CA:1050:G:OP2	2.26	0.52
23:DB:664:G:H2'	23:DB:665:U:C6	2.43	0.52
1:AA:214:C:H2'	1:AA:215:C:H6	1.72	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:552:U:H4'	11:AL:82:ARG:HG2	1.92	0.52
1:AA:333:U:H2'	1:AA:334:C:H6	1.74	0.52
23:DB:18:U:H2'	23:DB:19:A:C8	2.44	0.52
23:DB:19:A:H2'	23:DB:20:C:C6	2.44	0.52
23:DB:19:A:H2'	23:DB:20:C:H6	1.75	0.52
23:DB:20:C:O2'	23:DB:21:A:H5'	2.09	0.52
1:AA:392:C:H2'	1:AA:393:A:H8	1.75	0.52
10:CK:109:ILE:H	10:CK:109:ILE:HD12	1.74	0.52
23:DB:1733:G:H2'	23:DB:1734:G:C8	2.45	0.52
6:AG:16:LYS:HD3	6:AG:16:LYS:C	2.29	0.52
23:DB:1034:G:H2'	23:DB:1035:U:C6	2.43	0.52
23:BB:522:A:H2'	23:BB:523:C:C6	2.45	0.52
1:CA:625:U:H4'	15:CP:16:PHE:CE2	2.44	0.52
39:DR:26:ASP:O	39:DR:27:ILE:HB	2.09	0.52
6:CG:77:ARG:HD3	6:CG:79:VAL:HG23	1.92	0.52
1:AA:858:G:O6	1:AA:869:G:H3'	2.09	0.52
23:DB:721:A:H2'	23:DB:722:A:H8	1.74	0.52
1:CA:394:G:H2'	1:CA:395:C:H6	1.75	0.52
23:DB:1099:G:N7	52:DI:3:LYS:HD3	2.25	0.52
20:AB:163:ILE:HD11	20:AB:209:VAL:HG12	1.92	0.52
23:BB:1242:U:H2'	23:BB:1243:C:C6	2.44	0.52
25:BC:49:THR:O	25:BC:50:THR:HB	2.10	0.52
23:DB:2898:U:H2'	23:DB:2899:A:C8	2.45	0.52
23:DB:533:G:H5'	38:DQ:23:TYR:HD1	1.73	0.52
38:DQ:52:ARG:HG2	38:DQ:53:LYS:NZ	2.24	0.52
42:BU:100:GLU:O	42:BU:102:ILE:HG13	2.10	0.52
32:BK:101:GLY:O	32:BK:119:ALA:HB1	2.08	0.52
48:D1:46:VAL:HG22	48:D1:47:ILE:N	2.24	0.52
35:DN:4:ARG:N	35:DN:4:ARG:CZ	2.73	0.52
33:BL:30:THR:HA	33:BL:36:LYS:CE	2.37	0.52
38:BQ:99:VAL:HG23	38:BQ:100:PHE:HD1	1.73	0.52
43:BW:36:ILE:HB	43:BW:68:PHE:CD2	2.41	0.52
23:BB:2741:A:H2'	23:BB:2742:G:O4'	2.08	0.52
23:BB:143:C:O2'	41:BT:5:GLU:HA	2.09	0.52
13:CN:60:ARG:O	13:CN:61:ASN:HB2	2.09	0.52
23:DB:288:U:O2'	23:DB:289:G:H5'	2.08	0.52
25:DC:226:PRO:HG3	25:DC:232:GLY:O	2.10	0.52
23:BB:2734:A:H2'	23:BB:2735:G:H5'	1.91	0.52
24:DV:9:ARG:HE	24:DV:20:LEU:HD11	1.74	0.52
6:AG:13:PRO:HA	6:AG:23:ALA:HB2	1.90	0.52
1:CA:1302:C:H5''	1:CA:1303:C:OP2	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:D2:12:ARG:HH21	49:D2:16:HIS:CB	2.22	0.52
23:BB:2386:A:H4'	43:BW:38:ARG:HB2	1.91	0.52
25:DC:22:GLU:CD	25:DC:202:ARG:HE	2.12	0.52
4:CE:80:LEU:HD23	4:CE:122:VAL:HG11	1.91	0.52
35:DN:10:LEU:HG	35:DN:11:ASN:N	2.24	0.52
23:DB:448:U:H3'	27:DE:79:ARG:NE	2.23	0.52
8:AI:61:ASP:O	8:AI:62:LEU:HD13	2.09	0.52
7:AH:64:TYR:CB	7:AH:69:ALA:HA	2.38	0.52
42:BU:52:ASN:C	42:BU:54:PRO:HD3	2.30	0.52
23:DB:2794:C:H2'	23:DB:2795:C:C6	2.44	0.52
23:DB:2280:G:O6	43:DW:10:ARG:NH2	2.41	0.52
1:AA:1390:U:H2'	1:AA:1391:U:C6	2.44	0.52
1:AA:1225:A:H3'	1:AA:1226:C:H6	1.74	0.52
48:D1:20:TYR:O	48:D1:21:THR:HB	2.09	0.52
23:BB:766:U:H2'	23:BB:767:U:C6	2.45	0.52
23:BB:175:G:H2'	23:BB:176:A:C8	2.45	0.52
23:BB:2553:G:H2'	23:BB:2554:U:H4'	1.90	0.52
23:DB:2774:C:H2'	23:DB:2775:G:O4'	2.09	0.52
23:BB:1739:A:H2'	23:BB:1740:G:O4'	2.10	0.52
17:AR:31:TYR:CD2	17:AR:54:LEU:HD21	2.45	0.52
14:CO:61:GLN:O	14:CO:65:LEU:HG	2.08	0.52
22:BA:54:G:H2'	22:BA:55:U:C6	2.44	0.52
23:DB:265:A:H62	23:DB:427:U:HO2'	1.56	0.52
1:AA:317:U:H2'	1:AA:318:G:H8	1.73	0.52
5:AF:68:GLN:O	5:AF:71:ILE:HG13	2.09	0.52
23:DB:1099:G:O5'	52:DI:3:LYS:CA	2.57	0.52
37:DP:25:VAL:O	37:DP:47:ILE:HB	2.10	0.52
42:BU:11:ILE:HB	42:BU:69:VAL:CG1	2.40	0.52
37:BP:93:LYS:HB2	37:BP:96:LEU:HA	1.91	0.52
23:DB:2364:C:H2'	23:DB:2365:G:O4'	2.10	0.52
43:DW:38:ARG:HE	43:DW:40:ARG:HA	1.75	0.52
25:BC:114:GLN:HB2	25:BC:124:LYS:HZ2	1.73	0.52
25:BC:154:ALA:C	25:BC:156:SER:H	2.13	0.52
23:DB:2882:A:OP1	35:DN:96:ARG:HD2	2.10	0.52
25:DC:172:THR:O	25:DC:173:LEU:CB	2.56	0.52
25:DC:193:GLU:C	25:DC:194:VAL:HG22	2.30	0.52
43:BW:66:VAL:HG13	43:BW:67:LYS:HG3	1.90	0.52
39:DR:78:ARG:HD2	39:DR:88:GLY:O	2.09	0.52
33:BL:116:VAL:HG11	33:BL:134:ALA:O	2.08	0.52
33:BL:63:LYS:O	33:BL:63:LYS:HD3	2.10	0.52
34:BM:33:LEU:HD13	34:BM:124:LEU:HD11	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BV:42:LEU:HD12	24:BV:47:VAL:HG11	1.90	0.52
39:BR:77:PHE:C	39:BR:78:ARG:HG3	2.30	0.52
36:DO:27:VAL:HG13	36:DO:40:ILE:HD11	1.91	0.52
42:BU:60:LYS:HG3	42:BU:61:GLU:N	2.24	0.52
23:DB:1341:G:H1'	41:DT:59:ASN:HB3	1.90	0.52
8:AI:29:ILE:HD11	8:AI:37:TYR:HB3	1.92	0.52
27:BE:141:MET:HG3	27:BE:143:LEU:HB2	1.91	0.52
33:DL:89:VAL:HG21	33:DL:123:ARG:CZ	2.39	0.52
23:BB:142:A:C4	41:BT:2:ILE:HD12	2.44	0.52
23:BB:1658:C:OP1	26:BD:136:ASN:HA	2.10	0.52
26:BD:165:MET:HG3	26:BD:166:GLY:H	1.74	0.52
20:AB:71:THR:HB	20:AB:167:HIS:CD2	2.44	0.52
40:DS:28:LYS:HB3	40:DS:31:GLN:HB2	1.92	0.52
33:DL:59:ARG:HH21	50:D3:5:THR:HB	1.75	0.52
26:DD:122:VAL:HA	26:DD:128:ARG:CD	2.39	0.52
38:DQ:82:LEU:CD1	38:DQ:112:ALA:HB2	2.39	0.52
25:BC:20:ASN:HB2	25:BC:203:VAL:CG1	2.39	0.52
1:CA:1009:U:H2'	1:CA:1010:U:C6	2.44	0.52
1:AA:33:A:H2'	1:AA:34:C:C6	2.45	0.52
23:BB:464:U:H2'	23:BB:465:G:O4'	2.10	0.52
23:BB:2298:A:H2'	23:BB:2299:U:O4'	2.10	0.52
23:BB:2014:A:OP1	40:BS:95:ARG:HB2	2.09	0.52
22:DA:52:A:H2'	22:DA:53:A:H8	1.74	0.52
28:DF:55:ASP:O	28:DF:59:ILE:HB	2.10	0.52
52:DI:73:PRO:CG	52:DI:78:LEU:HD21	2.39	0.52
32:DK:15:GLY:HA3	32:DK:52:VAL:HB	1.92	0.52
20:AB:36:LYS:H	20:AB:36:LYS:HE3	1.71	0.52
1:CA:1070:U:H2'	1:CA:1071:C:H6	1.74	0.52
1:AA:860:A:H2'	1:AA:861:G:O4'	2.09	0.52
7:CH:111:THR:H	7:CH:114:ALA:HB3	1.74	0.52
1:AA:1170:A:O5'	1:AA:1170:A:H8	1.92	0.52
42:DU:82:VAL:HG21	42:DU:95:PHE:O	2.09	0.52
23:DB:1857:G:H2'	23:DB:1884:G:N2	2.24	0.52
28:BF:18:GLU:C	28:BF:20:ASN:H	2.12	0.52
23:BB:1973:G:H2'	23:BB:1974:C:H6	1.75	0.52
23:BB:576:U:H2'	23:BB:577:G:C8	2.45	0.52
1:CA:1137:C:H1'	1:CA:1138:G:C2	2.44	0.52
1:AA:520:A:OP2	11:AL:47:ALA:HB1	2.09	0.52
1:AA:303:A:H2'	1:AA:304:U:O4'	2.10	0.52
20:AB:172:ILE:HG22	20:AB:176:ASN:ND2	2.25	0.52
23:BB:1506:U:H2'	23:BB:1507:C:C6	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1000:A:H2'	23:BB:1001:A:C8	2.45	0.52
1:CA:777:A:H2'	1:CA:778:G:C8	2.43	0.52
35:DN:123:GLU:CG	35:DN:124:ALA:H	2.23	0.52
20:AB:95:TRP:HH2	20:AB:100:LEU:HB2	1.74	0.52
1:AA:246:A:C2	1:AA:282:A:C5	2.98	0.52
17:AR:20:ILE:HG23	17:AR:53:GLN:NE2	2.25	0.52
11:CL:6:LEU:HB3	16:CQ:33:TYR:OH	2.09	0.52
25:BC:112:GLY:O	25:BC:113:ASP:HB2	2.08	0.52
11:CL:8:ARG:O	11:CL:10:PRO:HD3	2.08	0.52
20:AB:20:ARG:HG3	20:AB:20:ARG:HH11	1.73	0.52
23:BB:2137:U:O5'	23:BB:2137:U:H6	1.93	0.52
1:AA:1256:A:O2'	1:AA:1257:A:H5''	2.09	0.52
23:DB:110:G:O2'	23:DB:111:A:H5'	2.09	0.52
23:DB:589:U:H2'	23:DB:590:A:H8	1.72	0.52
27:DE:46:GLN:NE2	27:DE:87:ALA:N	2.58	0.52
36:BO:55:GLU:HB2	36:BO:60:GLU:O	2.10	0.52
51:D4:11:CYS:SG	51:D4:26:ILE:C	2.88	0.52
36:DO:15:ARG:HH22	43:DW:76:ARG:CG	2.22	0.52
43:DW:36:ILE:HD12	43:DW:37:VAL:H	1.73	0.52
43:DW:44:PHE:HB3	43:DW:77:LYS:O	2.09	0.52
25:BC:124:LYS:HB2	25:BC:125:PRO:HD2	1.91	0.52
36:BO:19:GLN:HA	43:BW:76:ARG:NH2	2.25	0.52
43:BW:22:VAL:HG12	43:BW:23:LYS:N	2.25	0.52
38:DQ:47:ARG:HH22	38:DQ:50:ARG:HB2	1.75	0.52
1:AA:986:U:H1'	18:AS:53:GLY:O	2.10	0.52
46:BZ:64:PHE:CA	46:BZ:67:PRO:HD2	2.39	0.52
34:BM:1:MET:HA	34:BM:65:ILE:HG12	1.90	0.52
24:BV:21:ARG:HE	24:BV:87:GLN:CB	2.23	0.52
24:BV:80:HIS:HB3	24:BV:83:LYS:O	2.09	0.52
23:BB:580:U:H2'	23:BB:581:C:H6	1.70	0.52
39:BR:78:ARG:CB	39:BR:87:GLN:HA	2.31	0.52
5:CF:92:THR:O	5:CF:93:LYS:HB2	2.09	0.52
23:DB:137:U:C2'	23:DB:138:U:H5'	2.39	0.52
33:BL:29:LYS:CD	33:BL:30:THR:H	2.18	0.52
23:BB:991:C:H2'	23:BB:992:C:H6	1.74	0.52
40:DS:7:HIS:CD2	40:DS:46:LEU:HD13	2.44	0.52
31:DJ:49:ASP:O	31:DJ:50:THR:HB	2.09	0.52
25:BC:24:HIS:CB	25:BC:27:LYS:HE3	2.39	0.52
38:BQ:57:ARG:HA	38:BQ:60:TRP:CE3	2.43	0.52
39:BR:43:ASN:C	39:BR:45:GLU:H	2.11	0.52
3:CD:18:LEU:HD12	3:CD:63:ILE:HB	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2742:G:OP1	51:B4:36:ARG:NE	2.43	0.52
26:DD:31:ALA:HA	26:DD:51:THR:CA	2.34	0.52
23:BB:1656:C:H2'	23:BB:1657:U:H6	1.74	0.52
9:CJ:55:PRO:HA	13:CN:80:ARG:NH2	2.24	0.52
23:DB:1133:A:H2	23:DB:2038:G:H21	1.58	0.52
26:DD:139:SER:O	26:DD:141:ARG:N	2.42	0.52
51:D4:18:LYS:HE2	51:D4:19:ARG:H	1.68	0.52
26:BD:4:LEU:H	26:BD:49:GLN:NE2	2.08	0.52
39:DR:4:VAL:HG11	39:DR:46:GLU:OE2	2.10	0.52
39:DR:6:GLN:CG	39:DR:7:SER:H	2.18	0.52
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.45	0.52
1:AA:663:A:O2'	1:AA:664:G:H5'	2.09	0.52
14:CO:62:ARG:NH1	14:CO:86:LEU:HD21	2.25	0.52
3:AD:159:GLU:HG3	3:AD:160:LEU:HD13	1.91	0.52
31:DJ:120:ARG:HB3	31:DJ:121:LYS:HZ1	1.74	0.52
36:BO:30:ARG:HG2	36:BO:30:ARG:HH11	1.75	0.52
9:AJ:9:ARG:C	9:AJ:10:LEU:HD12	2.30	0.52
13:AN:65:GLN:HA	13:AN:65:GLN:HE21	1.74	0.52
1:AA:78:A:O5'	1:AA:78:A:H8	1.93	0.52
1:CA:939:G:H5''	6:CG:101:ARG:CZ	2.40	0.52
33:DL:19:LEU:N	33:DL:19:LEU:HD22	2.24	0.52
1:CA:1074:G:H2'	1:CA:1075:U:H6	1.74	0.52
23:BB:65:U:H2'	23:BB:66:C:C6	2.44	0.52
1:CA:33:A:H2'	1:CA:34:C:C6	2.45	0.52
23:DB:1252:G:H21	38:DQ:32:ARG:NE	2.07	0.52
23:DB:1309:G:H5'	49:D2:7:PRO:HB2	1.90	0.52
23:DB:448:U:O4'	23:DB:448:U:O2	2.27	0.52
29:DG:41:GLU:HB2	29:DG:52:GLY:HA3	1.92	0.52
23:BB:1374:G:H2'	23:BB:1375:U:C6	2.45	0.52
1:CA:474:G:H2'	1:CA:475:C:H6	1.73	0.52
26:BD:101:PHE:O	26:BD:102:ALA:HB3	2.10	0.52
6:AG:62:GLU:O	6:AG:66:GLU:HG3	2.10	0.52
1:CA:711:G:O2'	1:CA:712:A:H5'	2.10	0.52
1:CA:730:G:O2'	1:CA:766:A:H5'	2.08	0.52
23:BB:1534:U:O2'	23:BB:1535:A:H8	1.93	0.52
2:CC:149:LYS:HG3	2:CC:166:TRP:NE1	2.24	0.52
1:CA:82:G:H2'	1:CA:83:C:O4'	2.09	0.52
1:CA:1149:C:O2'	1:CA:1150:A:H5'	2.09	0.52
23:DB:931:U:H3	23:DB:1166:G:N2	2.07	0.52
23:BB:170:U:O2'	23:BB:171:U:H5'	2.09	0.52
24:DV:44:HIS:C	24:DV:46:LYS:H	2.13	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1739:A:H2'	23:DB:1740:G:O4'	2.10	0.52
23:DB:1506:U:H2'	23:DB:1507:C:C6	2.45	0.52
49:B2:8:SER:OG	49:B2:11:LYS:HD3	2.09	0.52
23:DB:1050:A:H2'	23:DB:1051:G:O4'	2.09	0.52
23:BB:2405:G:H1'	23:BB:2412:A:H61	1.75	0.52
23:DB:2719:G:H4'	23:DB:2846:G:O3'	2.09	0.52
23:BB:540:C:O2'	23:BB:541:A:H5'	2.10	0.52
1:CA:1351:U:O2'	1:CA:1352:C:H5'	2.10	0.52
23:DB:2083:G:H2'	23:DB:2084:C:H6	1.75	0.52
31:DJ:10:THR:O	31:DJ:11:VAL:HB	2.08	0.52
23:DB:1986:C:O2'	23:DB:1987:A:H5'	2.10	0.52
23:BB:554:U:H2'	23:BB:555:G:O4'	2.10	0.52
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.74	0.52
23:DB:737:C:O2'	23:DB:738:G:H5'	2.09	0.52
20:CB:44:LYS:O	20:CB:47:PRO:HD2	2.10	0.52
23:DB:1818:U:H5''	25:DC:155:ARG:HG2	1.92	0.52
23:BB:920:A:H2'	23:BB:921:C:H6	1.75	0.52
43:BW:65:LYS:O	43:BW:66:VAL:HB	2.08	0.52
38:DQ:46:TYR:HA	39:DR:77:PHE:CD2	2.43	0.52
33:DL:34:GLY:CA	39:DR:85:LYS:HE2	2.40	0.52
39:DR:85:LYS:O	39:DR:86:GLN:HB3	2.10	0.52
27:DE:147:LEU:HB2	27:DE:183:PHE:CD1	2.45	0.52
32:BK:118:LEU:HD12	32:BK:118:LEU:N	2.24	0.52
46:DZ:5:ILE:HG13	46:DZ:51:VAL:CG1	2.38	0.52
34:BM:65:ILE:HG22	34:BM:101:VAL:HG12	1.92	0.52
26:BD:154:LYS:C	26:BD:156:PHE:N	2.62	0.52
16:AQ:16:MET:CB	16:AQ:19:SER:HB2	2.39	0.52
23:DB:1845:G:O2'	23:DB:1846:G:H5'	2.10	0.52
25:DC:179:GLU:OE2	25:DC:267:VAL:HG23	2.10	0.52
45:BY:9:THR:CB	45:BY:54:VAL:HA	2.34	0.52
25:BC:52:HIS:O	25:BC:53:ILE:HB	2.09	0.52
41:DT:86:THR:O	41:DT:87:LEU:HB2	2.08	0.52
1:CA:1317:C:H2'	1:CA:1318:A:O4'	2.10	0.52
25:BC:61:TYR:CZ	25:BC:63:ILE:HD11	2.45	0.52
40:BS:28:LYS:HB3	40:BS:71:VAL:CG2	2.40	0.52
1:AA:764:C:C2'	1:AA:765:G:H5'	2.39	0.52
23:BB:445:C:H5'	27:BE:47:LYS:NZ	2.17	0.52
51:B4:24:ARG:HG2	51:B4:26:ILE:H	1.74	0.52
26:DD:4:LEU:CD1	26:DD:79:LEU:HD22	2.40	0.52
44:BX:47:ARG:O	44:BX:47:ARG:HG2	2.10	0.52
26:DD:129:THR:O	26:DD:140:HIS:HA	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:13:VAL:O	21:AU:14:ALA:HB2	2.09	0.52
32:BK:63:VAL:HG12	32:BK:103:VAL:HA	1.92	0.52
52:BI:32:VAL:HG22	52:BI:60:VAL:CG2	2.40	0.52
26:BD:34:VAL:HG23	26:BD:93:GLY:O	2.09	0.52
37:DP:52:ARG:O	37:DP:60:VAL:HG21	2.09	0.52
31:DJ:100:VAL:O	31:DJ:101:ILE:HB	2.10	0.52
20:CB:104:LYS:NZ	20:CB:104:LYS:HB2	2.20	0.52
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.92	0.52
45:BY:3:THR:HA	45:BY:47:ILE:CD1	2.39	0.52
17:CR:23:LYS:C	17:CR:23:LYS:HD2	2.30	0.52
52:DI:105:LEU:HD11	52:DI:139:VAL:CG2	2.36	0.52
12:CM:100:ARG:HB2	12:CM:102:LYS:HG2	1.91	0.52
23:BB:27:G:H1'	23:BB:513:A:H61	1.74	0.52
23:DB:600:G:H2'	23:DB:601:C:C6	2.44	0.52
23:BB:107:G:H21	23:BB:346:A:H62	1.57	0.52
28:BF:103:ILE:HA	28:BF:107:VAL:HG21	1.90	0.52
1:AA:1510:C:H2'	1:AA:1511:G:C8	2.44	0.52
1:AA:924:C:O2'	1:AA:925:G:H5'	2.08	0.52
27:DE:21:ARG:HD3	27:DE:25:GLU:CB	2.40	0.52
23:DB:1386:C:H2'	23:DB:1387:A:H8	1.74	0.52
23:BB:1341:G:H2'	23:BB:1397:U:O2'	2.09	0.52
23:BB:2070:A:H2'	23:BB:2071:A:H8	1.74	0.52
23:DB:2250:G:H21	23:DB:2496:C:C4'	2.22	0.52
23:DB:419:U:H2'	23:DB:420:C:H6	1.75	0.52
50:D3:46:LYS:HD2	50:D3:47:ALA:H	1.72	0.52
15:CP:22:ALA:CB	15:CP:32:PHE:HA	2.40	0.52
23:DB:1745:A:O2'	23:DB:1746:A:H5'	2.09	0.52
1:CA:303:A:H2'	1:CA:304:U:O4'	2.10	0.52
6:CG:49:LEU:O	6:CG:49:LEU:HD23	2.09	0.52
1:AA:462:G:H2'	1:AA:463:U:C6	2.44	0.52
23:BB:1717:A:H2'	23:BB:1718:G:O4'	2.10	0.52
4:AE:35:LEU:HD11	4:AE:136:VAL:HG11	1.92	0.52
23:BB:1149:G:H2'	23:BB:1150:C:H6	1.74	0.52
25:DC:231:HIS:ND1	25:DC:242:HIS:ND1	2.56	0.52
23:DB:1957:C:H2'	23:DB:1958:C:H6	1.74	0.52
1:AA:894:G:O2'	1:AA:895:G:H5'	2.10	0.52
55:DB:3322:HOH:O	27:DE:63:LYS:HE2	2.09	0.52
1:CA:1213:A:O2'	1:CA:1214:C:H5''	2.10	0.52
23:BB:656:G:H2'	23:BB:657:U:C6	2.45	0.52
35:DN:14:SER:HA	35:DN:17:ARG:NH2	2.24	0.52
23:DB:686:U:H1'	49:D2:5:PHE:O	2.10	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BV:5:ASN:HA	24:BV:64:VAL:HB	1.92	0.52
23:DB:2316:G:O2'	23:DB:2317:A:H5'	2.10	0.52
23:BB:1274:A:N3	23:BB:1297:C:H1'	2.25	0.52
37:DP:50:ARG:HG3	37:DP:99:LEU:H	1.75	0.52
37:BP:61:ARG:HB2	37:BP:61:ARG:CZ	2.40	0.52
43:DW:60:ALA:CB	43:DW:80:SER:HA	2.37	0.52
25:BC:141:HIS:HD2	25:BC:193:GLU:H	1.57	0.52
31:BJ:75:TYR:CD2	31:BJ:75:TYR:N	2.78	0.52
39:DR:76:LYS:HB3	39:DR:90:ARG:CB	2.40	0.52
23:DB:2688:G:H1'	23:DB:2721:A:H61	1.74	0.52
41:DT:65:GLY:HA3	41:DT:76:ARG:NH2	2.25	0.52
42:BU:38:ILE:O	42:BU:39:ASN:HB2	2.08	0.52
31:DJ:41:LYS:CD	31:DJ:44:TYR:HB3	2.39	0.52
34:DM:41:LEU:CG	34:DM:46:ILE:HD11	2.40	0.52
12:AM:53:ASP:HA	12:AM:56:ARG:CD	2.40	0.52
33:DL:123:ARG:CA	33:DL:142:ILE:HA	2.39	0.52
26:BD:115:GLY:HA3	26:BD:166:GLY:CA	2.39	0.52
33:DL:62:PRO:HB3	50:D3:12:ARG:CD	2.40	0.52
23:BB:1256:G:H21	27:BE:77:ILE:HG23	1.75	0.52
50:D3:33:THR:HG22	50:D3:40:LYS:HD2	1.91	0.52
50:D3:40:LYS:O	50:D3:43:LEU:HD13	2.10	0.52
25:BC:230:PRO:O	25:BC:231:HIS:HB3	2.09	0.52
52:BI:76:ALA:O	52:BI:80:LYS:HG3	2.10	0.52
39:DR:44:GLY:H	39:DR:53:PHE:HE2	1.57	0.52
12:CM:68:LEU:HD22	12:CM:69:ARG:NH1	2.25	0.52
19:AT:57:VAL:C	19:AT:60:GLN:HE22	2.13	0.52
35:DN:63:ARG:HA	35:DN:80:PHE:CZ	2.45	0.52
41:DT:38:ALA:O	41:DT:42:GLU:HB3	2.10	0.52
1:CA:1226:C:H5'	12:CM:101:THR:O	2.10	0.52
46:DZ:36:VAL:O	46:DZ:36:VAL:HG23	2.10	0.52
1:AA:1243:C:H2'	1:AA:1244:G:H8	1.75	0.52
23:BB:52:A:C5	23:BB:118:A:C2	2.98	0.52
23:DB:1516:G:O2'	23:DB:1517:G:H5'	2.10	0.52
23:BB:1791:A:H5'	25:BC:207:ALA:HA	1.91	0.52
41:BT:93:LEU:HD22	41:BT:93:LEU:N	2.23	0.52
23:BB:2229:U:H2'	23:BB:2230:G:C8	2.45	0.52
1:AA:60:A:O2'	1:AA:61:G:P	2.66	0.52
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.45	0.52
9:CJ:9:ARG:CB	9:CJ:99:GLN:HG3	2.39	0.52
1:AA:541:G:H2'	1:AA:542:G:H8	1.75	0.52
1:AA:677:U:H2'	1:AA:678:U:C6	2.44	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CE:149:PRO:HG2	4:CE:150:GLU:OE2	2.09	0.52
23:BB:2189:U:H2'	23:BB:2190:G:H8	1.74	0.52
44:DX:6:LEU:HD22	44:DX:56:LEU:HD12	1.92	0.52
22:BA:32:U:H2'	22:BA:33:G:O4'	2.09	0.52
1:AA:217:C:O2'	1:AA:218:U:H5'	2.10	0.52
23:BB:397:U:H2'	23:BB:398:C:C6	2.45	0.52
1:CA:287:U:O2'	1:CA:288:A:H5'	2.08	0.52
23:BB:807:U:O2'	23:BB:808:G:H5'	2.10	0.52
23:BB:1545:A:H2'	23:BB:1546:G:O4'	2.09	0.52
23:DB:807:U:O2'	23:DB:808:G:H5'	2.10	0.52
23:BB:570:G:H2'	23:BB:2030:A:N7	2.24	0.52
23:DB:2135:A:C2	23:DB:2136:G:C8	2.98	0.52
1:CA:323:U:H2'	1:CA:324:G:O4'	2.10	0.52
23:BB:1957:C:H2'	23:BB:1958:C:H6	1.74	0.52
37:BP:63:ILE:N	37:BP:63:ILE:HD12	2.24	0.52
23:BB:773:U:H5'	23:BB:774:G:OP2	2.10	0.52
25:BC:51:ARG:O	25:BC:51:ARG:CD	2.58	0.52
25:BC:140:VAL:HG11	25:BC:163:ILE:HD11	1.92	0.52
25:BC:164:VAL:HB	25:BC:167:ASP:CG	2.30	0.52
23:BB:973:A:OP1	23:BB:973:A:H8	1.92	0.52
23:BB:396:G:H5'	46:BZ:9:TYR:CB	2.34	0.52
46:DZ:1:MET:HA	46:DZ:9:TYR:CE1	2.44	0.52
34:BM:67:VAL:HB	34:BM:100:LYS:CD	2.40	0.52
24:BV:82:TYR:HD2	24:BV:82:TYR:N	2.08	0.52
36:DO:25:ARG:CB	36:DO:94:ARG:HH22	2.23	0.52
40:BS:11:ARG:HA	40:BS:100:THR:HG22	1.92	0.52
28:BF:135:ILE:HB	28:BF:142:TYR:CE1	2.45	0.52
28:BF:136:ILE:HD12	28:BF:136:ILE:N	2.25	0.52
31:BJ:10:THR:HG22	31:BJ:50:THR:HA	1.90	0.52
18:CS:11:ASP:HB2	18:CS:14:LEU:HD23	1.92	0.52
13:CN:53:ASP:HA	13:CN:58:ARG:HH11	1.75	0.52
21:CU:16:ARG:HA	21:CU:19:LYS:NZ	2.25	0.52
10:CK:85:VAL:CG2	10:CK:92:ARG:HH12	2.22	0.52
33:DL:57:LEU:O	33:DL:58:TYR:HB2	2.10	0.52
2:AC:154:GLY:HA2	2:AC:163:ARG:H	1.73	0.52
23:BB:2354:C:O3'	43:BW:30:VAL:HG13	2.10	0.52
8:CI:9:GLY:HA2	8:CI:80:HIS:HB3	1.92	0.52
23:DB:1010:A:H4'	38:DQ:75:TYR:CD2	2.45	0.52
42:DU:13:LEU:HD11	42:DU:69:VAL:H	1.75	0.52
2:AC:87:ARG:HG3	2:AC:100:ILE:CG2	2.38	0.52
3:AD:99:ASN:ND2	3:AD:110:ARG:HE	2.08	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1790:C:O2'	25:DC:207:ALA:HB2	2.09	0.52
23:DB:1441:G:H2'	23:DB:1442:U:H6	1.73	0.52
19:CT:74:HIS:O	19:CT:78:LEU:HG	2.10	0.52
49:D2:7:PRO:O	49:D2:8:SER:HB3	2.09	0.52
2:CC:156:LEU:HD12	2:CC:163:ARG:HG3	1.91	0.52
6:AG:41:ILE:HG13	6:AG:116:ALA:HA	1.91	0.52
23:DB:1595:C:O2'	23:DB:1596:A:H5'	2.10	0.52
23:DB:352:A:H3'	23:DB:353:C:C6	2.45	0.52
23:BB:416:U:H2'	23:BB:417:C:H6	1.75	0.52
23:BB:558:U:P	31:BJ:113:PRO:HG2	2.50	0.52
6:CG:96:ASN:O	6:CG:100:MET:HG2	2.10	0.52
23:BB:1213:A:C6	23:BB:1237:A:H1'	2.45	0.52
1:CA:537:G:H2'	1:CA:538:G:C8	2.45	0.52
7:AH:12:ARG:NH1	7:AH:26:MET:HB2	2.24	0.52
1:CA:1354:U:H2'	1:CA:1355:G:C8	2.44	0.52
1:CA:1355:G:O2'	1:CA:1356:G:H5'	2.10	0.52
23:BB:2186:G:H2'	23:BB:2187:U:O4'	2.10	0.52
23:BB:526:A:N6	23:BB:2626:C:C4'	2.73	0.52
45:DY:52:PHE:HB3	45:DY:53:MET:CE	2.40	0.52
40:DS:85:ILE:HD13	40:DS:85:ILE:C	2.31	0.52
23:BB:2077:A:H2'	23:BB:2078:C:H6	1.72	0.52
23:DB:1013:C:H2'	23:DB:1014:A:C8	2.44	0.52
8:CI:40:ARG:HA	8:CI:44:ARG:CZ	2.40	0.52
23:BB:1845:G:O2'	23:BB:1846:G:H5'	2.10	0.52
23:DB:1739:A:H2'	23:DB:1740:G:H8	1.74	0.52
2:AC:30:ASP:O	2:AC:33:ASP:HB3	2.09	0.52
2:AC:61:LYS:O	2:AC:96:VAL:HB	2.09	0.52
1:CA:394:G:H2'	1:CA:395:C:C6	2.45	0.52
23:BB:2373:G:H2'	23:BB:2374:C:C6	2.45	0.52
20:CB:161:PHE:HA	20:CB:183:PHE:O	2.09	0.52
23:DB:2862:G:H2'	23:DB:2863:C:C6	2.45	0.52
23:DB:1599:U:H2'	23:DB:1600:C:H6	1.75	0.52
23:DB:2547:A:H2'	23:DB:2548:U:C6	2.45	0.52
17:AR:70:THR:HG23	17:AR:71:ASP:H	1.75	0.52
35:BN:122:ALA:HA	47:B0:49:ARG:NH1	2.25	0.52
23:BB:753:A:H2'	23:BB:754:U:C6	2.45	0.52
41:DT:19:LYS:NZ	41:DT:26:LYS:HE2	2.25	0.52
23:DB:2599:G:C8	25:DC:234:GLY:HA2	2.45	0.52
1:AA:1410:A:H2'	1:AA:1411:C:C6	2.45	0.52
31:BJ:1:MET:SD	39:BR:14:VAL:HG21	2.50	0.52
1:AA:442:G:H2'	1:AA:443:C:C6	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:978:G:H2'	23:BB:979:A:H8	1.75	0.52
37:DP:27:VAL:HG23	37:DP:86:LYS:CB	2.40	0.52
43:DW:60:ALA:HB3	43:DW:80:SER:CA	2.39	0.52
43:DW:67:LYS:CD	43:DW:71:LYS:H	2.23	0.52
35:DN:42:LYS:CA	35:DN:42:LYS:HE3	2.39	0.52
27:BE:133:LEU:HD12	27:BE:136:GLN:OE1	2.09	0.52
33:BL:82:LEU:O	33:BL:83:ALA:HB3	2.09	0.52
32:BK:40:LYS:HZ2	32:BK:89:ASN:HD21	1.58	0.52
23:DB:2086:U:H2'	23:DB:2087:G:H8	1.72	0.52
23:DB:2090:A:O3'	46:DZ:49:ARG:HD3	2.10	0.52
41:DT:76:ARG:CG	41:DT:77:ARG:N	2.70	0.52
23:BB:781:A:OP1	25:BC:216:ARG:NH2	2.42	0.52
31:DJ:41:LYS:HE2	31:DJ:46:PRO:HD3	1.91	0.52
28:BF:109:ARG:HG2	28:BF:136:ILE:HG13	1.92	0.52
28:BF:133:GLU:OE1	28:BF:147:ARG:HD3	2.10	0.52
25:BC:28:PRO:O	25:BC:29:PHE:CB	2.58	0.52
31:BJ:45:THR:HB	38:BQ:63:ARG:HH12	1.75	0.52
38:BQ:87:VAL:HB	39:BR:55:ASP:OD2	2.10	0.52
27:BE:113:VAL:HA	27:BE:117:ARG:HD3	1.92	0.52
28:DF:32:LYS:HE2	28:DF:156:THR:OG1	2.09	0.52
44:BX:22:LEU:HA	44:BX:47:ARG:HH12	1.75	0.52
45:DY:1:ALA:HB1	45:DY:37:ARG:HB3	1.92	0.52
8:CI:56:MET:HG3	8:CI:57:VAL:HG23	1.92	0.52
4:CE:89:THR:CG2	4:CE:90:GLY:N	2.73	0.52
15:CP:54:LEU:HD13	15:CP:80:LYS:NZ	2.25	0.52
12:AM:63:VAL:HG12	12:AM:68:LEU:HG	1.92	0.52
9:AJ:88:MET:C	9:AJ:90:LEU:H	2.13	0.52
35:DN:86:ARG:CB	35:DN:86:ARG:HH11	2.20	0.52
29:DG:151:ARG:HB2	29:DG:151:ARG:NH1	2.21	0.52
31:BJ:7:LYS:HZ3	31:BJ:48:VAL:CB	2.22	0.52
11:CL:64:SER:HB2	11:CL:81:ILE:HD12	1.92	0.52
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.10	0.52
22:DA:44:G:N3	22:DA:47:C:N4	2.57	0.52
23:BB:458:G:H1'	23:BB:459:U:H5	1.73	0.52
8:CI:26:LYS:HG3	8:CI:61:ASP:OD2	2.10	0.52
23:DB:2370:G:H2'	23:DB:2371:G:O4'	2.10	0.52
8:CI:114:LYS:H	8:CI:114:LYS:HD2	1.75	0.52
20:CB:57:ASN:HA	20:CB:60:ALA:HB3	1.90	0.52
1:CA:1060:U:H5"	9:CJ:53:ILE:HG12	1.91	0.52
23:DB:1309:G:H4'	49:D2:7:PRO:HB2	1.92	0.52
2:CC:127:VAL:HB	2:CC:128:MET:HE3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1048:G:H4'	13:AN:2:LYS:HZ2	1.72	0.52
5:AF:47:LEU:HB3	17:AR:65:SER:OG	2.10	0.52
22:DA:109:A:H2'	22:DA:110:C:H6	1.75	0.52
23:BB:1857:G:H2'	23:BB:1884:G:N2	2.24	0.52
2:CC:2:GLN:CA	2:CC:2:GLN:HE21	2.23	0.52
32:DK:61:VAL:CG1	32:DK:87:LEU:HD11	2.39	0.52
33:BL:132:ARG:HH11	33:BL:132:ARG:HG2	1.75	0.52
1:CA:1405:G:O2'	1:CA:1406:U:H5'	2.10	0.52
23:DB:283:G:H2'	23:DB:284:U:H6	1.75	0.52
23:DB:31:C:O2'	23:DB:32:C:H5'	2.10	0.52
23:BB:1745:A:H2'	23:BB:1746:A:C8	2.45	0.52
23:BB:1939:U:H6	23:BB:1939:U:H5'	1.75	0.52
19:CT:43:LYS:HB3	19:CT:86:ALA:CB	2.39	0.52
1:AA:938:A:H1'	1:AA:1376:U:O2'	2.10	0.52
23:BB:2862:G:H2'	23:BB:2863:C:C6	2.45	0.52
1:CA:246:A:C2	1:CA:282:A:C5	2.98	0.52
1:CA:894:G:O2'	1:CA:895:G:H5'	2.10	0.52
1:CA:902:G:H2'	1:CA:903:G:H8	1.74	0.52
48:B1:22:THR:O	48:B1:23:THR:HG23	2.10	0.52
8:AI:15:ALA:O	8:AI:66:VAL:HG23	2.09	0.52
23:DB:1801:A:H5'	23:DB:2203:U:O2'	2.09	0.52
4:CE:15:ILE:HG22	4:CE:16:ALA:N	2.25	0.52
32:DK:95:ILE:HG12	32:DK:95:ILE:O	2.10	0.52
7:AH:84:ILE:N	7:AH:84:ILE:HD12	2.24	0.52
23:BB:2581:G:N2	23:BB:2581:G:OP2	2.43	0.52
1:AA:625:U:H4'	15:AP:16:PHE:CE2	2.44	0.52
36:BO:59:ALA:CB	36:BO:63:LYS:HB2	2.40	0.52
23:BB:2181:U:H2'	23:BB:2182:U:O4'	2.10	0.52
23:BB:1986:C:O2'	23:BB:1987:A:H5'	2.10	0.52
30:BH:125:THR:OG1	30:BH:146:VAL:HB	2.10	0.51
20:CB:31:PHE:N	20:CB:41:ASN:HB2	2.25	0.51
31:BJ:122:LEU:HD12	31:BJ:123:LYS:N	2.24	0.51
43:BW:45:HIS:ND1	43:BW:64:GLY:HA3	2.24	0.51
38:DQ:38:VAL:HA	38:DQ:41:ALA:HB3	1.92	0.51
27:BE:132:LYS:HD3	27:BE:133:LEU:HD22	1.91	0.51
23:DB:86:G:OP1	42:DU:28:LEU:HD22	2.10	0.51
50:B3:23:HIS:CD2	50:B3:47:ALA:HA	2.45	0.51
46:BZ:5:ILE:N	46:BZ:5:ILE:HD12	2.17	0.51
23:BB:2052:A:C5'	26:BD:148:GLN:H	2.21	0.51
23:DB:1654:A:O2'	26:DD:118:PHE:O	2.27	0.51
23:BB:995:C:OP2	38:BQ:53:LYS:HE2	2.08	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BQ:47:ARG:HH21	38:BQ:51:GLN:N	2.08	0.51
40:DS:46:LEU:O	40:DS:50:VAL:HG22	2.10	0.51
31:BJ:81:ILE:HG23	31:BJ:82:GLY:N	2.25	0.51
1:CA:1023:U:H2'	1:CA:1024:G:H8	1.75	0.51
1:AA:1060:U:H4'	9:AJ:54:SER:HB2	1.92	0.51
47:B0:35:GLU:CG	47:B0:36:LYS:N	2.73	0.51
40:BS:2:GLU:OE1	40:BS:108:SER:HB3	2.10	0.51
27:BE:152:GLU:H	27:BE:171:ASP:HB3	1.75	0.51
27:BE:47:LYS:N	27:BE:47:LYS:HD3	2.12	0.51
51:B4:15:LYS:HB2	51:B4:26:ILE:HD11	1.91	0.51
13:CN:50:LEU:CD1	13:CN:51:PRO:HD3	2.40	0.51
33:DL:109:LYS:HG2	33:DL:126:ARG:HH11	1.74	0.51
26:DD:146:ILE:CG1	26:DD:155:VAL:HG13	2.40	0.51
23:DB:2755:C:H2'	51:D4:19:ARG:NH2	2.25	0.51
23:DB:1639:C:H2'	23:DB:1640:A:C5'	2.33	0.51
11:CL:23:LEU:C	11:CL:25:ALA:H	2.13	0.51
23:DB:1021:A:H61	23:DB:1142:A:H61	1.52	0.51
32:DK:105:ARG:O	32:DK:108:ARG:HB3	2.10	0.51
31:DJ:61:LYS:HA	31:DJ:61:LYS:HE3	1.92	0.51
1:AA:978:A:HO2'	1:AA:1322:C:H5	1.55	0.51
32:BK:47:ILE:HG23	32:BK:48:PRO:CD	2.40	0.51
23:BB:1430:G:H2'	23:BB:1431:A:H8	1.74	0.51
39:DR:97:LYS:O	39:DR:98:ILE:HB	2.10	0.51
23:BB:1916:A:H2'	23:BB:1917:U:C6	2.44	0.51
10:CK:70:ALA:HA	10:CK:73:VAL:HG22	1.91	0.51
23:BB:233:A:H61	23:BB:428:A:H61	1.57	0.51
23:BB:27:G:HO2'	23:BB:28:A:H8	1.56	0.51
1:CA:940:C:H2'	1:CA:941:G:C8	2.45	0.51
3:CD:2:ARG:O	3:CD:3:TYR:HB3	2.10	0.51
1:CA:280:C:H1'	16:CQ:39:ARG:NH1	2.25	0.51
13:CN:65:GLN:HG2	13:CN:82:LYS:HG3	1.92	0.51
35:DN:107:ASN:HD21	40:DS:40:ASN:HB3	1.75	0.51
1:CA:960:U:O2'	1:CA:961:U:P	2.68	0.51
4:AE:104:ILE:CD1	4:AE:114:LEU:HB2	2.40	0.51
23:BB:2195:U:H2'	23:BB:2196:C:H6	1.76	0.51
6:CG:63:VAL:CG1	6:CG:126:ALA:HB1	2.40	0.51
23:BB:189:G:H2'	23:BB:205:G:N2	2.26	0.51
23:BB:1228:G:H2'	23:BB:1229:C:C6	2.45	0.51
23:BB:208:C:H2'	23:BB:209:C:C6	2.45	0.51
23:DB:1563:U:H2'	23:DB:1564:C:C6	2.45	0.51
26:DD:56:LYS:HZ2	26:DD:59:ARG:HB2	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:192:C:C2'	23:DB:193:U:H5'	2.39	0.51
23:DB:845:A:N1	23:DB:847:U:H1'	2.25	0.51
23:DB:771:G:O2'	23:DB:772:C:H5'	2.10	0.51
23:DB:2599:G:N7	25:DC:234:GLY:HA2	2.26	0.51
1:AA:648:A:H2'	1:AA:649:A:C8	2.45	0.51
3:CD:121:ALA:HA	3:CD:145:ARG:HG3	1.93	0.51
28:BF:77:LYS:NZ	28:BF:79:ARG:HE	2.08	0.51
1:CA:252:U:H2'	1:CA:253:A:H8	1.74	0.51
23:DB:2440:C:H5'	55:DB:3424:HOH:O	2.10	0.51
7:CH:45:ILE:HD13	7:CH:60:LEU:HD11	1.91	0.51
23:DB:656:G:H2'	23:DB:657:U:C6	2.45	0.51
1:AA:140:U:H2'	1:AA:141:G:H8	1.73	0.51
6:CG:4:ARG:HB2	6:CG:4:ARG:NH1	2.25	0.51
42:BU:5:ARG:CG	42:BU:6:ARG:N	2.73	0.51
37:BP:28:LYS:O	37:BP:30:TRP:N	2.43	0.51
37:BP:52:ARG:CB	37:BP:60:VAL:HG11	2.25	0.51
23:DB:2336:A:C1'	23:DB:2337:G:OP1	2.56	0.51
47:D0:29:VAL:CG2	47:D0:32:THR:H	2.24	0.51
39:DR:76:LYS:HD2	39:DR:90:ARG:HB3	1.90	0.51
30:BH:37:VAL:H	30:BH:38:PRO:CD	2.11	0.51
16:AQ:75:VAL:HG23	16:AQ:76:ARG:N	2.25	0.51
38:BQ:75:TYR:CZ	38:BQ:79:ILE:HD11	2.44	0.51
27:BE:173:THR:HA	27:BE:201:ALA:O	2.11	0.51
37:DP:100:ARG:H	37:DP:100:ARG:HD2	1.76	0.51
41:BT:34:VAL:CG1	41:BT:43:ILE:HD11	2.39	0.51
17:CR:33:THR:HG21	17:CR:37:LYS:HG2	1.92	0.51
52:BI:112:LYS:O	52:BI:116:MET:HG3	2.09	0.51
7:CH:104:SER:O	7:CH:122:GLY:HA3	2.10	0.51
1:AA:35:G:H2'	1:AA:36:C:C6	2.46	0.51
11:AL:119:LYS:HG3	11:AL:119:LYS:O	2.11	0.51
11:AL:80:LEU:O	11:AL:97:VAL:HG23	2.09	0.51
23:BB:1081:U:H5''	52:BI:126:ARG:HD2	1.92	0.51
13:AN:30:ILE:HD12	13:AN:30:ILE:N	2.19	0.51
1:AA:783:C:O2'	1:AA:784:A:H5'	2.10	0.51
40:BS:89:ALA:O	40:BS:90:LYS:HB2	2.10	0.51
1:AA:590:U:OP1	7:AH:30:LYS:HG2	2.10	0.51
23:BB:1438:U:H5'	23:BB:1516:G:O2'	2.10	0.51
23:DB:2066:C:O2'	23:DB:2067:G:H5'	2.11	0.51
8:AI:122:ARG:NH1	8:AI:122:ARG:HG3	2.21	0.51
37:BP:26:GLU:CA	37:BP:46:VAL:HG13	2.38	0.51
25:BC:250:GLN:O	25:BC:251:THR:HB	2.09	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1284:C:H3'	1:AA:1285:A:C5'	2.35	0.51
8:CI:22:PRO:HA	8:CI:60:LEU:HB3	1.92	0.51
3:AD:145:ARG:HB3	3:AD:147:LYS:HE3	1.92	0.51
25:BC:180:MET:HB2	25:BC:265:PHE:HB2	1.93	0.51
23:DB:1161:C:H2'	23:DB:1162:G:H8	1.76	0.51
23:BB:1563:U:H2'	23:BB:1564:C:C6	2.45	0.51
1:CA:1165:U:H2'	1:CA:1166:G:O4'	2.10	0.51
41:BT:25:GLU:HG3	41:BT:26:LYS:N	2.25	0.51
23:DB:1560:G:H2'	23:DB:1561:C:C6	2.45	0.51
1:AA:250:A:H1'	1:AA:252:U:C5	2.45	0.51
26:BD:18:ASP:OD2	26:BD:20:VAL:HG13	2.09	0.51
17:AR:31:TYR:CG	17:AR:54:LEU:HD21	2.45	0.51
35:DN:14:SER:HA	35:DN:17:ARG:HH22	1.75	0.51
23:BB:167:A:H2'	23:BB:168:G:O4'	2.10	0.51
23:DB:2877:G:O2'	23:DB:2878:U:H5'	2.10	0.51
23:DB:1107:G:O2'	23:DB:1108:U:H5'	2.10	0.51
23:DB:753:A:H2'	23:DB:754:U:C6	2.45	0.51
15:CP:23:ASP:OD1	15:CP:25:ARG:HB2	2.10	0.51
37:DP:90:ALA:HB3	37:DP:111:GLU:HB2	1.91	0.51
1:CA:975:A:HO2'	1:CA:1358:U:H1'	1.74	0.51
23:BB:2869:G:H2'	23:BB:2870:C:H6	1.75	0.51
37:BP:64:SER:HA	37:BP:72:VAL:HG12	1.91	0.51
36:DO:18:LEU:HD21	36:DO:43:ASN:HD22	1.74	0.51
23:BB:1812:U:H2'	23:BB:1813:G:H8	1.75	0.51
23:BB:163:C:O2	23:BB:163:C:H5'	2.10	0.51
30:DH:4:ILE:HD13	30:DH:4:ILE:N	2.25	0.51
47:D0:36:LYS:HB2	47:D0:41:HIS:ND1	2.25	0.51
47:D0:42:ILE:O	47:D0:42:ILE:HG23	2.11	0.51
31:DJ:136:GLN:N	31:DJ:137:PRO:CD	2.73	0.51
31:DJ:98:GLU:CD	31:DJ:98:GLU:H	2.12	0.51
24:BV:23:ALA:O	24:BV:24:ASN:HB2	2.11	0.51
38:BQ:30:VAL:O	38:BQ:33:VAL:HG12	2.11	0.51
38:BQ:34:ALA:C	38:BQ:38:VAL:HG12	2.31	0.51
41:DT:3:ARG:HB3	41:DT:5:GLU:CD	2.31	0.51
23:BB:587:C:N3	33:BL:38:GLN:CB	2.73	0.51
40:DS:9:HIS:O	40:DS:10:ALA:HB3	2.09	0.51
25:BC:81:GLU:HB3	25:BC:90:ILE:HG22	1.93	0.51
39:BR:51:VAL:HG12	39:BR:53:PHE:H	1.74	0.51
23:BB:1205:A:C4'	23:BB:1206:G:OP2	2.59	0.51
10:AK:111:ASP:O	17:AR:72:ARG:HD3	2.10	0.51
33:DL:109:LYS:HE2	33:DL:126:ARG:NH1	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2394:C:H5''	33:DL:64:PHE:CE2	2.46	0.51
23:DB:2281:A:O2'	23:DB:2282:G:H5'	2.11	0.51
52:BI:27:LEU:N	52:BI:27:LEU:HD23	2.18	0.51
26:BD:46:ARG:HA	26:BD:81:GLU:O	2.09	0.51
23:DB:1812:U:H2'	23:DB:1813:G:H8	1.75	0.51
28:DF:66:ILE:O	28:DF:66:ILE:HG22	2.11	0.51
37:DP:54:LEU:N	37:DP:54:LEU:HD12	2.25	0.51
1:CA:864:A:H2'	1:CA:865:A:C8	2.46	0.51
1:AA:1108:G:H5'	2:AC:175:HIS:CD2	2.46	0.51
6:AG:14:ASP:CG	6:AG:15:PRO:HD2	2.31	0.51
1:CA:837:U:H2'	1:CA:838:G:H8	1.75	0.51
2:AC:75:VAL:O	2:AC:75:VAL:HG12	2.10	0.51
11:AL:22:ALA:HB2	11:AL:56:LEU:CD2	2.39	0.51
29:DG:10:VAL:HG23	29:DG:47:ASN:O	2.10	0.51
45:DY:10:ARG:HG2	45:DY:31:ILE:HG21	1.92	0.51
33:BL:21:ARG:HH11	33:BL:21:ARG:HB3	1.74	0.51
1:AA:1464:U:H2'	1:AA:1465:A:C8	2.45	0.51
24:DV:30:ILE:HG12	24:DV:91:PHE:CB	2.38	0.51
11:CL:56:LEU:HD12	11:CL:60:PHE:HB2	1.92	0.51
29:BG:53:PRO:HG2	29:BG:61:TRP:HA	1.92	0.51
23:BB:1516:G:O2'	23:BB:1517:G:H5'	2.10	0.51
42:DU:41:VAL:O	42:DU:42:LYS:HB2	2.10	0.51
23:DB:2018:G:H1'	38:DQ:32:ARG:NH2	2.24	0.51
23:DB:2065:C:H2'	23:DB:2066:C:H6	1.74	0.51
23:DB:2327:A:H2'	23:DB:2328:A:C8	2.46	0.51
23:DB:2484:G:H21	34:DM:118:LYS:HG2	1.75	0.51
7:CH:38:VAL:HG13	7:CH:39:LEU:HD22	1.93	0.51
23:BB:1595:C:O2'	23:BB:1596:A:H5'	2.10	0.51
23:DB:1534:U:O2'	23:DB:1535:A:H8	1.93	0.51
43:DW:10:ARG:NH1	43:DW:10:ARG:HA	2.26	0.51
23:BB:869:G:H2'	23:BB:870:U:C6	2.45	0.51
1:AA:1512:U:O2'	1:AA:1513:A:H5'	2.10	0.51
34:DM:97:GLN:N	34:DM:98:PRO:HD3	2.25	0.51
23:DB:1745:A:H2'	23:DB:1746:A:C8	2.45	0.51
1:CA:217:C:O2'	1:CA:218:U:H5'	2.10	0.51
10:CK:109:ILE:N	10:CK:109:ILE:HD12	2.25	0.51
1:CA:1477:U:H2'	1:CA:1478:U:C6	2.46	0.51
23:DB:1050:A:O2'	23:DB:2752:C:H1'	2.10	0.51
1:CA:392:C:H2'	1:CA:393:A:H8	1.75	0.51
34:DM:61:GLY:HA3	34:DM:105:MET:HB2	1.91	0.51
1:CA:73:C:H2'	1:CA:74:A:C8	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1475:G:OP1	23:BB:1689:A:H1'	2.10	0.51
1:CA:442:G:H2'	1:CA:443:C:C6	2.45	0.51
23:DB:146:A:H2'	23:DB:147:C:C6	2.44	0.51
23:DB:2033:A:H1'	23:DB:2035:G:OP2	2.11	0.51
1:CA:1275:A:H2'	1:CA:1276:G:O4'	2.11	0.51
1:CA:648:A:H2'	1:CA:649:A:C8	2.46	0.51
2:CC:33:ASP:OD1	2:CC:37:LYS:HE2	2.10	0.51
52:DI:53:PRO:CG	52:DI:77:VAL:HG11	2.39	0.51
1:AA:531:U:H6	1:AA:531:U:H5'	1.75	0.51
51:B4:13:ASN:HD22	51:B4:13:ASN:N	2.08	0.51
23:BB:2518:A:H2'	23:BB:2518:A:N3	2.25	0.51
37:BP:23:ASP:O	37:BP:25:VAL:HG23	2.09	0.51
23:BB:165:A:H2'	23:BB:166:U:O4'	2.11	0.51
31:BJ:57:LEU:HD12	31:BJ:128:ASN:C	2.31	0.51
20:AB:216:VAL:O	20:AB:220:VAL:HG23	2.11	0.51
46:BZ:3:LYS:HB2	46:BZ:51:VAL:CG2	2.29	0.51
23:DB:396:G:H2'	23:DB:397:U:H6	1.75	0.51
23:DB:2688:G:H1'	23:DB:2721:A:N6	2.25	0.51
23:BB:2771:C:H2'	23:BB:2772:C:H6	1.76	0.51
31:DJ:77:HIS:HB2	31:DJ:85:LYS:CE	2.39	0.51
23:DB:919:U:O5'	23:DB:919:U:H6	1.94	0.51
3:CD:101:VAL:O	3:CD:104:MET:HB2	2.11	0.51
23:BB:2742:G:O2'	23:BB:2743:U:H5'	2.11	0.51
21:AU:5:VAL:HG12	21:AU:6:ARG:N	2.25	0.51
26:BD:16:THR:HG23	26:BD:17:GLU:N	2.13	0.51
23:DB:2053:G:O2'	23:DB:2054:A:H5'	2.11	0.51
27:DE:4:VAL:HA	27:DE:14:VAL:HG22	1.92	0.51
23:BB:2784:U:H4'	26:BD:41:ALA:O	2.10	0.51
26:BD:67:HIS:O	26:BD:71:ALA:HB3	2.10	0.51
23:DB:1150:C:O2'	23:DB:1151:A:H5'	2.11	0.51
1:CA:1006:G:H2'	1:CA:1007:U:C6	2.45	0.51
1:CA:376:G:C5'	15:CP:5:ARG:HD3	2.40	0.51
3:AD:84:ASN:HD22	3:AD:87:GLU:N	2.01	0.51
1:AA:1348:U:H4'	8:AI:121:ARG:HH11	1.76	0.51
28:DF:135:ILE:HG23	28:DF:136:ILE:H	1.75	0.51
4:CE:80:LEU:CD2	4:CE:122:VAL:HG11	2.40	0.51
29:BG:51:PHE:HB3	29:BG:64:ALA:HB1	1.91	0.51
14:CO:31:LEU:O	14:CO:35:ILE:HG12	2.10	0.51
39:BR:18:GLN:HA	39:BR:99:THR:HA	1.92	0.51
20:AB:116:LEU:HD12	20:AB:143:LEU:HD12	1.93	0.51
12:CM:79:LEU:CD2	12:CM:86:ARG:HE	2.23	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:676:A:O2'	1:AA:677:U:H5'	2.10	0.51
24:DV:2:PHE:HB3	24:DV:50:MET:SD	2.50	0.51
23:DB:1360:G:H2'	23:DB:1361:G:C5'	2.41	0.51
1:AA:883:C:O2'	1:AA:884:U:H5'	2.09	0.51
33:BL:111:ILE:CD1	33:BL:111:ILE:H	2.23	0.51
1:CA:81:A:H2'	1:CA:82:G:C8	2.45	0.51
19:CT:49:ALA:O	19:CT:52:GLU:HB3	2.10	0.51
23:BB:740:C:H5'	23:BB:1784:A:OP1	2.11	0.51
43:BW:3:LYS:HD2	43:BW:3:LYS:N	2.26	0.51
27:DE:77:ILE:HG23	27:DE:78:TRP:CD1	2.45	0.51
11:AL:3:VAL:HG23	11:AL:4:ASN:OD1	2.10	0.51
23:BB:1560:G:H2'	23:BB:1561:C:C6	2.45	0.51
1:CA:333:U:H2'	1:CA:334:C:H6	1.74	0.51
6:AG:72:VAL:HB	6:AG:144:ALA:CB	2.41	0.51
23:BB:1330:C:H2'	23:BB:1331:G:H8	1.76	0.51
4:AE:14:LEU:HA	4:AE:36:THR:HG22	1.91	0.51
1:CA:146:G:O2'	1:CA:147:G:H5'	2.11	0.51
33:BL:106:GLU:CD	33:BL:106:GLU:H	2.12	0.51
1:CA:250:A:H1'	1:CA:252:U:C5	2.45	0.51
1:CA:251:G:H4'	1:CA:252:U:H5'	1.92	0.51
1:CA:987:G:H2'	1:CA:988:G:C8	2.45	0.51
15:CP:12:LYS:O	15:CP:13:LYS:HB2	2.10	0.51
35:DN:61:ALA:O	35:DN:64:ARG:HB3	2.09	0.51
23:BB:642:U:H2'	23:BB:644:A:OP2	2.10	0.51
1:CA:1464:U:H2'	1:CA:1465:A:C8	2.45	0.51
23:DB:441:U:H2'	23:DB:442:G:C8	2.45	0.51
26:BD:55:LYS:NZ	26:BD:55:LYS:HB2	2.25	0.51
23:BB:786:C:O2'	23:BB:787:C:H5'	2.10	0.51
27:DE:47:LYS:O	27:DE:49:ARG:HG2	2.10	0.51
23:BB:2718:G:O2'	23:BB:2719:G:H5'	2.09	0.51
43:DW:44:PHE:HD2	43:DW:77:LYS:HB3	1.75	0.51
25:BC:153:LEU:HD13	25:BC:161:VAL:HG23	1.93	0.51
23:BB:161:A:H3'	23:BB:162:U:C5'	2.25	0.51
23:BB:2322:A:N6	23:BB:2333:A:H62	2.09	0.51
25:DC:171:VAL:HG12	25:DC:183:VAL:C	2.31	0.51
31:BJ:56:VAL:HG12	31:BJ:57:LEU:N	2.25	0.51
31:BJ:58:ASN:O	31:BJ:126:ALA:HA	2.10	0.51
22:BA:114:C:H4'	36:BO:49:VAL:HG11	1.91	0.51
43:BW:65:LYS:HE2	43:BW:65:LYS:C	2.31	0.51
27:DE:139:LYS:HA	27:DE:143:LEU:CD2	2.40	0.51
33:BL:61:LEU:O	50:B3:11:LYS:NZ	2.43	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:82:LEU:HD21	33:BL:92:LEU:HD12	1.92	0.51
34:BM:8:LYS:HB2	34:BM:12:MET:CE	2.41	0.51
3:AD:112:GLU:OE2	3:AD:153:ARG:HD3	2.11	0.51
22:DA:114:C:O2'	36:DO:49:VAL:HG23	2.10	0.51
36:DO:106:LEU:HD23	36:DO:106:LEU:C	2.31	0.51
41:DT:17:SER:H	41:DT:20:ALA:CB	2.22	0.51
41:DT:55:VAL:CG2	41:DT:56:GLU:H	2.15	0.51
8:AI:30:ASN:ND2	8:AI:30:ASN:N	2.59	0.51
8:AI:34:LEU:HD11	8:AI:47:VAL:CG2	2.40	0.51
38:BQ:99:VAL:HG23	38:BQ:100:PHE:CD1	2.44	0.51
13:CN:15:LEU:O	13:CN:19:TYR:HB2	2.10	0.51
13:CN:51:PRO:CB	13:CN:54:SER:HB3	2.40	0.51
26:BD:167:ASN:N	26:BD:167:ASN:ND2	2.58	0.51
21:CU:14:ALA:HB3	21:CU:16:ARG:HH12	1.74	0.51
23:DB:1656:C:H2'	23:DB:1657:U:H6	1.74	0.51
23:DB:61:C:OP2	44:DX:44:LYS:HB2	2.11	0.51
23:BB:2073:C:H5''	25:BC:227:VAL:HG23	1.92	0.51
11:CL:23:LEU:CD2	11:CL:58:ASN:HD22	2.18	0.51
27:DE:6:LYS:HZ3	27:DE:8:ALA:HB2	1.75	0.51
52:DI:72:THR:CG2	52:DI:112:LYS:HD2	2.40	0.51
52:DI:105:LEU:CD1	52:DI:129:GLU:HG2	2.37	0.51
31:DJ:14:ASP:H	31:DJ:53:TYR:HD1	1.57	0.51
31:DJ:53:TYR:HA	31:DJ:121:LYS:HB3	1.93	0.51
34:DM:127:LYS:HZ3	34:DM:129:THR:H	1.59	0.51
1:AA:1460:C:H2'	1:AA:1461:G:O4'	2.11	0.51
48:B1:34:GLU:O	48:B1:35:LEU:HB3	2.10	0.51
25:DC:243:PRO:O	25:DC:244:VAL:HG23	2.11	0.51
1:AA:499:A:C2	1:AA:546:A:N3	2.79	0.51
2:AC:150:VAL:HG12	2:AC:151:GLU:N	2.25	0.51
19:CT:38:ILE:HD13	19:CT:85:LEU:HD23	1.93	0.51
23:DB:2328:A:H2'	23:DB:2329:U:H6	1.71	0.51
40:DS:3:THR:OG1	40:DS:107:VAL:HG23	2.10	0.51
23:DB:1029:A:H3'	23:DB:1030:C:H6	1.76	0.51
15:AP:20:VAL:HG21	15:AP:32:PHE:CD2	2.45	0.51
23:BB:2093:G:N7	23:BB:2225:A:H2'	2.26	0.51
46:BZ:69:SER:HB3	46:BZ:70:LYS:HE3	1.92	0.51
23:BB:2469:A:H5''	34:BM:55:ARG:HD2	1.93	0.51
29:BG:137:LYS:HA	29:BG:140:ILE:CG1	2.40	0.51
22:DA:25:U:OP1	22:DA:25:U:H3'	2.10	0.51
20:CB:69:VAL:HB	20:CB:162:VAL:HB	1.91	0.51
1:CA:602:A:O2'	1:CA:603:U:H5'	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DU:78:LYS:HD2	42:DU:96:LYS:CG	2.41	0.51
20:AB:132:GLU:O	20:AB:136:ARG:HG3	2.10	0.51
23:DB:394:C:O2'	23:DB:395:U:H5'	2.11	0.51
23:DB:2700:A:H2'	23:DB:2701:U:H6	1.76	0.51
23:DB:1315:C:H2'	23:DB:1316:U:C6	2.46	0.51
1:AA:394:G:H2'	1:AA:395:C:H6	1.75	0.51
23:DB:720:U:H2'	23:DB:721:A:C8	2.46	0.51
47:B0:12:ARG:C	47:B0:12:ARG:HD3	2.31	0.51
1:CA:629:A:H2'	1:CA:630:A:O4'	2.11	0.51
1:CA:541:G:H2'	1:CA:542:G:H8	1.75	0.51
23:BB:2033:A:H1'	23:BB:2035:G:OP2	2.11	0.51
22:DA:29:A:OP1	22:DA:29:A:C8	2.64	0.51
43:BW:6:GLY:C	43:BW:8:SER:H	2.14	0.51
23:BB:2547:A:H2'	23:BB:2548:U:C6	2.44	0.51
23:DB:2849:U:O4	37:DP:96:LEU:HD21	2.11	0.51
36:BO:53:THR:O	36:BO:62:LEU:HD23	2.10	0.51
26:DD:37:VAL:CB	26:DD:46:ARG:HB2	2.39	0.51
43:BW:44:PHE:HB3	43:BW:76:ARG:HA	1.92	0.51
43:BW:66:VAL:CG1	43:BW:67:LYS:H	2.15	0.51
27:DE:147:LEU:C	27:DE:148:ILE:HG23	2.31	0.51
33:BL:62:PRO:HB3	50:B3:29:ARG:NH2	2.25	0.51
46:BZ:5:ILE:HB	46:BZ:51:VAL:HG12	1.93	0.51
34:BM:20:LEU:HB2	34:BM:38:ARG:HD3	1.93	0.51
23:BB:811:U:O5'	33:BL:31:GLY:HA2	2.11	0.51
28:BF:150:GLY:O	28:BF:151:LEU:HD12	2.11	0.51
38:BQ:61:ILE:O	38:BQ:65:ASN:HB3	2.11	0.51
23:BB:2262:U:H4'	23:BB:2328:A:C2	2.46	0.51
18:AS:3:SER:O	18:AS:4:LEU:HG	2.11	0.51
33:DL:132:ARG:HH12	33:DL:140:GLY:HA2	1.74	0.51
41:BT:30:ILE:HG22	41:BT:85:VAL:HG22	1.92	0.51
32:BK:78:ARG:O	37:BP:71:ARG:HB3	2.10	0.51
28:DF:13:LYS:CA	28:DF:16:MET:HB2	2.34	0.51
23:BB:2621:G:HO2'	26:BD:164:GLN:HB2	1.75	0.51
52:BI:79:LEU:HD23	52:BI:108:ILE:CD1	2.41	0.51
19:CT:68:LYS:HB2	19:CT:70:LYS:HD3	1.93	0.51
1:CA:1021:A:H2'	1:CA:1022:A:C1'	2.41	0.51
35:BN:38:LEU:HB2	35:BN:109:PRO:CG	2.41	0.51
55:BB:3366:HOH:O	35:BN:15:SER:HB3	2.11	0.51
23:BB:589:U:H1'	27:BE:88:ARG:NH2	2.26	0.51
29:DG:171:LYS:HE2	29:DG:174:LYS:HG3	1.92	0.51
1:CA:1085:U:H3'	1:CA:1086:U:C5	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:2:ILE:HA	32:DK:33:ALA:H	1.75	0.51
44:DX:7:ARG:O	44:DX:7:ARG:HG3	2.11	0.51
27:DE:137:LYS:HA	27:DE:137:LYS:HZ3	1.73	0.51
30:BH:73:ASN:ND2	30:BH:74:ALA:N	2.56	0.51
1:AA:1448:C:H2'	1:AA:1449:C:H6	1.74	0.51
4:AE:84:VAL:HG21	4:AE:142:GLY:O	2.11	0.51
7:AH:79:ARG:HB2	7:AH:80:PRO:HD2	1.92	0.51
30:BH:8:LYS:HB3	30:BH:14:SER:HA	1.93	0.51
1:CA:1325:C:O2'	1:CA:1326:U:H5'	2.10	0.51
23:DB:2466:C:O2	34:DM:118:LYS:HD3	2.09	0.51
6:AG:117:LEU:HD13	6:AG:117:LEU:O	2.11	0.51
23:DB:2045:C:H5''	47:D0:14:MET:SD	2.50	0.51
23:DB:2597:G:C5'	25:DC:239:PHE:HB2	2.39	0.51
37:BP:77:SER:HB2	37:BP:78:PRO:HD3	1.92	0.51
23:DB:2199:A:O2'	46:DZ:34:LEU:HD21	2.09	0.51
1:AA:537:G:H2'	1:AA:538:G:C8	2.45	0.51
23:DB:1973:G:H2'	23:DB:1974:C:H6	1.75	0.51
49:D2:37:LYS:HD3	49:D2:37:LYS:C	2.31	0.51
20:AB:102:ASN:OD1	20:AB:105:THR:HG22	2.10	0.51
23:BB:1230:A:H2'	23:BB:1231:U:C6	2.46	0.51
23:DB:576:U:H2'	23:DB:577:G:C8	2.45	0.51
1:AA:212:G:H2'	1:AA:213:G:C8	2.46	0.51
2:CC:85:LYS:HG3	2:CC:86:LEU:N	2.24	0.51
37:BP:112:ARG:N	37:BP:112:ARG:HH11	2.08	0.51
23:BB:999:U:O2'	23:BB:1000:A:H5'	2.11	0.51
2:AC:41:TYR:HA	2:AC:44:LYS:HD3	1.92	0.51
23:DB:686:U:H5''	49:D2:11:LYS:HE3	1.92	0.51
1:CA:423:G:H2'	1:CA:424:G:O4'	2.11	0.51
3:CD:197:HIS:O	3:CD:201:GLU:HG3	2.10	0.51
3:AD:104:MET:SD	3:AD:179:GLY:HA3	2.51	0.51
23:DB:274:C:H2'	23:DB:275:C:H6	1.76	0.51
1:CA:531:U:H5'	1:CA:531:U:H6	1.75	0.51
1:CA:697:U:H2'	1:CA:698:G:H5'	1.93	0.51
23:BB:1599:U:H2'	23:BB:1600:C:H6	1.75	0.51
42:DU:59:GLU:HG3	42:DU:62:ALA:CB	2.38	0.51
20:CB:34:ARG:HE	20:CB:39:ILE:HG13	1.74	0.51
51:D4:23:ILE:HD13	51:D4:24:ARG:H	1.74	0.51
25:BC:141:HIS:ND1	25:BC:142:ASN:N	2.59	0.51
25:BC:160:TYR:HA	25:BC:193:GLU:CG	2.41	0.51
30:DH:35:LYS:HZ1	30:DH:37:VAL:HG23	1.76	0.51
47:D0:41:HIS:CD2	47:D0:42:ILE:HG22	2.46	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:98:GLU:HG3	31:DJ:126:ALA:CB	2.41	0.51
38:DQ:52:ARG:HG2	38:DQ:53:LYS:N	2.26	0.51
42:BU:94:PHE:CZ	42:BU:100:GLU:HA	2.46	0.51
27:DE:188:MET:SD	27:DE:190:ALA:HB2	2.51	0.51
33:BL:77:ILE:HA	33:BL:101:ILE:HD13	1.93	0.51
33:BL:78:ARG:HH21	33:BL:82:LEU:HD23	1.74	0.51
46:BZ:30:HIS:H	46:BZ:48:GLN:CD	2.13	0.51
34:BM:9:PHE:CG	34:BM:10:ARG:N	2.79	0.51
24:BV:80:HIS:CD2	24:BV:83:LYS:HB2	2.45	0.51
46:DZ:59:ARG:HD3	46:DZ:63:ARG:CD	2.41	0.51
42:BU:42:LYS:O	42:BU:57:ILE:HG13	2.11	0.51
35:BN:29:VAL:HG13	35:BN:83:LEU:HD13	1.93	0.51
1:CA:1004:A:H3'	1:CA:1005:A:H8	1.75	0.51
23:BB:2329:U:H2'	23:BB:2330:G:H8	1.74	0.51
3:CD:94:GLU:HA	3:CD:99:ASN:ND2	2.26	0.51
30:DH:144:VAL:HG12	30:DH:145:ASN:H	1.76	0.51
23:BB:2688:G:H1'	23:BB:2721:A:N6	2.25	0.51
27:DE:1:MET:HG3	27:DE:18:THR:HG1	1.76	0.51
31:DJ:81:ILE:HG12	31:DJ:83:GLY:H	1.76	0.51
23:BB:2074:U:H2'	23:BB:2075:U:C6	2.46	0.51
37:DP:59:THR:O	37:DP:60:VAL:HG13	2.10	0.51
1:AA:837:U:H2'	1:AA:838:G:H8	1.75	0.51
14:AO:29:ALA:HA	14:AO:84:LEU:HD21	1.92	0.51
23:BB:1025:G:H8	23:BB:1025:G:OP1	1.94	0.51
39:DR:23:GLU:O	39:DR:96:VAL:HG21	2.11	0.51
29:DG:172:GLU:OE1	51:D4:32:LYS:HB3	2.11	0.51
23:DB:718:A:H3'	23:DB:719:C:H6	1.76	0.51
52:BI:18:ASN:N	52:BI:19:PRO:CD	2.74	0.51
16:CQ:16:MET:HB3	16:CQ:19:SER:HB2	1.92	0.51
16:CQ:80:LYS:H	16:CQ:80:LYS:HD2	1.76	0.51
38:DQ:30:VAL:HG12	38:DQ:31:TYR:H	1.74	0.51
25:DC:257:ARG:HA	25:DC:261:ARG:NE	2.26	0.51
6:AG:64:ALA:HA	6:AG:127:ALA:HB2	1.92	0.51
7:AH:6:ILE:CG2	7:AH:76:ARG:HH12	2.24	0.51
15:AP:67:ILE:CG1	15:AP:71:VAL:HG13	2.41	0.51
23:DB:862:G:H2'	23:DB:863:A:O4'	2.11	0.51
29:BG:120:ILE:CG1	29:BG:140:ILE:HG22	2.40	0.51
1:CA:767:A:H2'	1:CA:768:A:C8	2.46	0.51
23:BB:1535:A:H3'	23:BB:1536:C:C6	2.46	0.51
8:CI:33:SER:HB2	8:CI:36:GLN:HG2	1.92	0.51
23:DB:866:A:H61	23:DB:913:U:C1'	2.24	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:205:G:HO2'	23:BB:206:U:P	2.34	0.51
23:BB:354:A:C3'	23:BB:355:U:H5''	2.40	0.51
23:BB:2886:A:C8	47:B0:27:LEU:HD22	2.46	0.51
1:AA:522:C:H41	11:AL:49:ARG:NH2	2.09	0.51
23:BB:1771:C:H2'	23:BB:1772:A:C8	2.45	0.51
26:BD:15:PHE:HD2	26:BD:18:ASP:HB2	1.75	0.51
41:BT:50:LEU:N	41:BT:50:LEU:HD22	2.26	0.51
15:AP:73:ALA:O	15:AP:77:GLU:HG3	2.10	0.51
1:CA:488:C:H2'	1:CA:489:C:H6	1.76	0.51
23:DB:2373:G:H2'	23:DB:2374:C:C6	2.45	0.51
10:AK:63:GLN:HB3	10:AK:94:SER:OG	2.11	0.51
27:DE:88:ARG:HB3	27:DE:89:PRO:CD	2.40	0.51
50:D3:21:PHE:H	50:D3:48:MET:HB2	1.75	0.51
30:DH:147:VAL:HG12	30:DH:148:ALA:N	2.25	0.51
1:AA:1272:G:H2'	1:AA:1273:C:C6	2.45	0.51
44:DX:28:LEU:HD13	44:DX:42:LEU:HD11	1.93	0.51
42:BU:6:ARG:C	42:BU:8:ASP:H	2.12	0.51
51:D4:25:VAL:O	51:D4:35:GLN:HB2	2.10	0.51
23:BB:2849:U:H4'	23:BB:2868:A:C2	2.46	0.51
32:BK:76:VAL:O	37:BP:73:PHE:HA	2.11	0.51
43:DW:20:LEU:HD11	43:DW:31:LEU:HB2	1.92	0.51
25:BC:160:TYR:O	25:BC:161:VAL:HG23	2.11	0.51
31:BJ:100:VAL:O	31:BJ:102:GLU:N	2.44	0.51
27:DE:146:VAL:HG11	27:DE:184:ASP:OD1	2.11	0.51
50:B3:24:LYS:HA	50:B3:45:PRO:CB	2.35	0.51
46:BZ:15:SER:HB3	46:BZ:23:LYS:CE	2.41	0.51
23:BB:2464:G:H2'	23:BB:2465:C:H6	1.75	0.51
23:DB:2820:A:C5	26:DD:197:THR:HB	2.45	0.51
23:DB:1654:A:H4'	35:DN:1:MET:O	2.11	0.51
13:AN:10:VAL:HG12	13:AN:11:LYS:NZ	2.26	0.51
23:DB:2291:U:H2'	23:DB:2292:U:H6	1.71	0.51
39:DR:33:VAL:H	39:DR:35:PHE:HD2	1.59	0.51
23:BB:2680:U:H5'	26:BD:194:PRO:HA	1.92	0.51
18:CS:26:ASP:OD2	18:CS:46:LEU:HA	2.11	0.51
31:BJ:13:ARG:HG3	31:BJ:13:ARG:NH1	2.22	0.51
38:BQ:92:LYS:O	38:BQ:94:LEU:HD13	2.11	0.51
1:AA:132:C:H5''	19:AT:68:LYS:CD	2.40	0.51
40:BS:71:VAL:HG12	40:BS:71:VAL:O	2.11	0.51
27:BE:105:LEU:HD22	27:BE:177:PRO:CG	2.40	0.51
51:B4:22:VAL:HG21	51:B4:24:ARG:HH21	1.76	0.51
26:DD:5:VAL:CG2	26:DD:28:GLU:HA	2.40	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:630:G:H1	33:DL:69:ARG:NH1	2.09	0.51
23:DB:2393:U:H5'	33:DL:61:LEU:O	2.10	0.51
23:DB:2515:C:O2'	23:DB:2516:A:H5'	2.11	0.51
52:DI:79:LEU:HD12	52:DI:135:MET:SD	2.51	0.51
1:CA:451:A:C5'	15:CP:70:ARG:HH22	2.17	0.51
38:DQ:82:LEU:HD11	38:DQ:108:LEU:HD11	1.92	0.51
1:CA:1306:A:H61	1:CA:1331:G:C1'	2.18	0.51
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.46	0.51
1:AA:1422:G:O2'	1:AA:1423:G:H5'	2.11	0.51
1:CA:1007:U:H2'	1:CA:1008:U:H6	1.75	0.51
15:CP:57:ILE:O	15:CP:61:VAL:HG23	2.11	0.51
42:BU:2:ALA:C	42:BU:3:LYS:HD3	2.31	0.51
35:BN:37:THR:HG1	35:BN:40:LYS:HB2	1.76	0.51
23:BB:1913:A:C1'	23:BB:1914:C:OP1	2.56	0.51
23:DB:877:A:H61	23:DB:898:C:H2'	1.74	0.51
23:DB:1005:C:H2'	23:DB:1006:C:C6	2.46	0.51
36:BO:68:LYS:H	36:BO:68:LYS:CD	2.23	0.51
48:B1:7:LYS:HD2	48:B1:8:ILE:O	2.11	0.51
33:DL:19:LEU:N	33:DL:19:LEU:HD13	2.25	0.51
14:CO:35:ILE:O	14:CO:39:GLN:HG2	2.11	0.51
23:DB:1864:U:OP1	23:DB:2410:G:O2'	2.22	0.51
28:BF:90:LEU:HD23	28:BF:94:ARG:HG2	1.93	0.51
1:CA:1391:U:H2'	1:CA:1392:G:H8	1.74	0.51
28:DF:163:GLU:HA	28:DF:166:ARG:CD	2.41	0.51
5:AF:47:LEU:HD13	5:AF:51:ILE:HG22	1.92	0.51
23:DB:1535:A:H3'	23:DB:1536:C:C6	2.46	0.51
23:DB:956:G:N2	23:DB:959:A:H3'	2.25	0.51
29:DG:148:ARG:HH21	29:DG:153:PRO:HD2	1.76	0.51
27:BE:84:THR:HG23	27:BE:85:PHE:N	2.26	0.51
36:DO:86:GLY:O	36:DO:87:ILE:HD13	2.10	0.51
1:CA:1049:U:O2'	1:CA:1050:G:P	2.68	0.51
45:DY:15:ARG:HD2	45:DY:53:MET:SD	2.51	0.51
1:CA:212:G:H2'	1:CA:213:G:C8	2.46	0.51
23:BB:10:A:O2'	23:BB:11:C:H5'	2.11	0.51
50:D3:2:LYS:CB	50:D3:2:LYS:HZ2	2.24	0.51
1:CA:1262:C:H2'	1:CA:1263:C:C6	2.46	0.51
23:DB:1717:A:H2'	23:DB:1718:G:O4'	2.10	0.51
23:BB:350:G:H2'	23:BB:351:C:C6	2.45	0.51
23:DB:327:G:O2'	23:DB:328:U:H5'	2.11	0.51
23:BB:2756:U:OP2	51:B4:19:ARG:HD3	2.10	0.51
1:AA:488:C:H2'	1:AA:489:C:H6	1.76	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:14:LYS:HD2	33:DL:15:ALA:N	2.26	0.51
23:BB:2877:G:O2'	23:BB:2878:U:H5'	2.11	0.51
23:BB:496:G:H2'	23:BB:497:A:O4'	2.10	0.51
2:CC:189:HIS:CD2	2:CC:194:VAL:HG22	2.45	0.51
49:B2:10:LEU:O	49:B2:10:LEU:HD23	2.11	0.51
23:BB:2060:A:H62	27:BE:69:ARG:HH21	1.57	0.51
32:DK:112:PHE:O	32:DK:114:LYS:N	2.43	0.51
42:BU:69:VAL:HG13	42:BU:77:GLY:H	1.75	0.51
31:DJ:15:TRP:CE3	31:DJ:138:GLN:HB2	2.45	0.51
23:BB:2364:C:H2'	23:BB:2365:G:O4'	2.10	0.51
23:DB:532:A:H5''	38:DQ:27:ARG:HH12	1.76	0.51
23:BB:320:A:H2'	27:BE:131:THR:HG21	1.92	0.51
23:DB:2293:G:P	36:DO:13:ARG:HH22	2.33	0.51
36:DO:35:ILE:HG21	36:DO:74:VAL:HG21	1.93	0.51
38:BQ:92:LYS:HA	38:BQ:95:ALA:CB	2.40	0.51
38:BQ:92:LYS:HD3	38:BQ:93:ILE:HG22	1.92	0.51
39:BR:40:MET:HA	39:BR:54:VAL:HG11	1.93	0.51
23:DB:1367:A:H2'	23:DB:1368:G:H5'	1.93	0.51
47:B0:45:ASP:HB2	47:B0:47:TYR:CD1	2.46	0.51
27:BE:169:VAL:HG12	27:BE:171:ASP:OD1	2.11	0.51
51:B4:9:LYS:O	51:B4:25:VAL:HG13	2.11	0.51
26:DD:204:LYS:HB3	26:DD:205:PRO:CD	2.30	0.51
23:DB:633:A:O5'	23:DB:633:A:C8	2.57	0.51
40:DS:68:ASP:HB2	40:DS:69:LEU:HD22	1.93	0.51
23:DB:2017:U:H4'	47:D0:4:GLN:O	2.11	0.51
50:D3:12:ARG:HD2	50:D3:24:LYS:O	2.10	0.51
5:CF:5:GLU:HA	5:CF:63:ASN:HA	1.92	0.51
52:BI:27:LEU:HB2	52:BI:32:VAL:HG21	1.92	0.51
26:BD:29:VAL:HG23	26:BD:51:THR:HG21	1.93	0.51
1:CA:1287:A:O2'	1:CA:1288:A:H5'	2.11	0.51
8:CI:51:LEU:CB	8:CI:56:MET:HG2	2.38	0.51
52:DI:23:VAL:HG12	52:DI:24:GLY:N	2.26	0.51
1:AA:1101:A:N7	20:AB:170:ILE:HD12	2.25	0.51
1:CA:769:G:O2'	1:CA:770:C:H5'	2.11	0.51
23:DB:2581:G:OP2	23:DB:2581:G:N2	2.43	0.51
2:AC:42:LEU:O	2:AC:46:LEU:HB2	2.11	0.51
1:CA:1238:A:C2	1:CA:1241:G:N3	2.79	0.51
49:D2:16:HIS:NE2	49:D2:44:VAL:HG12	2.26	0.51
5:CF:53:LYS:HE2	5:CF:54:LEU:HD23	1.92	0.51
5:CF:54:LEU:HD13	5:CF:55:HIS:H	1.76	0.51
12:CM:106:ARG:NH1	12:CM:109:LYS:HD2	2.26	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DM:131:VAL:CG2	34:DM:133:LYS:HB3	2.40	0.51
23:BB:55:G:H2'	23:BB:56:A:H8	1.76	0.51
38:BQ:103:VAL:O	38:BQ:106:THR:HG22	2.11	0.51
1:CA:499:A:C2	1:CA:546:A:N3	2.79	0.51
50:D3:4:LYS:CE	50:D3:61:LEU:HD13	2.41	0.51
46:DZ:25:ARG:O	46:DZ:26:SER:HB3	2.11	0.51
23:DB:2278:A:N6	43:DW:10:ARG:HB2	2.25	0.51
1:CA:538:G:P	11:CL:111:GLN:HB2	2.51	0.51
33:DL:41:ARG:HA	33:DL:41:ARG:CZ	2.41	0.51
46:BZ:59:ARG:HH21	46:BZ:62:LYS:NZ	2.09	0.51
1:CA:1041:G:H2'	1:CA:1042:A:C8	2.44	0.51
23:DB:105:C:H2'	23:DB:106:C:H6	1.76	0.51
1:CA:402:G:H2'	1:CA:403:C:H6	1.75	0.51
49:B2:21:ARG:HB3	49:B2:31:LEU:HD21	1.91	0.51
20:CB:132:GLU:HG2	20:CB:135:MET:HE1	1.93	0.51
3:CD:89:LEU:HA	3:CD:92:LEU:HB2	1.93	0.51
23:DB:175:G:H2'	23:DB:176:A:H8	1.74	0.51
23:BB:1663:G:O2'	23:BB:2686:G:H4'	2.11	0.51
23:BB:2666:C:O4'	23:BB:2666:C:O2	2.24	0.51
23:BB:1315:C:H2'	23:BB:1316:U:C6	2.46	0.51
1:AA:394:G:H2'	1:AA:395:C:C6	2.45	0.51
23:BB:1733:G:H2'	23:BB:1734:G:C8	2.45	0.51
3:CD:75:TYR:HE1	3:CD:200:VAL:HG23	1.75	0.51
46:DZ:50:ASP:HA	46:DZ:53:THR:HG22	1.92	0.51
23:DB:1274:A:N3	23:DB:1297:C:H1'	2.25	0.51
23:DB:642:U:H2'	23:DB:644:A:OP2	2.10	0.51
17:AR:22:TYR:HB2	17:AR:61:ALA:HB2	1.92	0.51
27:DE:85:PHE:O	27:DE:86:ALA:CB	2.59	0.51
23:BB:37:C:C2	27:BE:46:GLN:OE1	2.64	0.51
37:BP:23:ASP:OD2	37:BP:93:LYS:HG2	2.10	0.51
23:BB:854:C:O2'	23:BB:855:G:H5'	2.11	0.51
36:BO:25:ARG:HD3	36:BO:40:ILE:HD11	1.92	0.51
20:AB:67:LEU:HD21	20:AB:157:PRO:CG	2.41	0.51
23:DB:779:U:P	25:DC:49:THR:HG1	2.34	0.51
25:DC:48:ILE:CG2	25:DC:49:THR:H	2.06	0.51
23:DB:910:A:H62	34:DM:15:GLY:HA3	1.75	0.51
27:BE:119:ILE:HG23	27:BE:189:THR:O	2.11	0.51
23:DB:919:U:H2'	23:DB:920:A:H8	1.69	0.51
10:AK:110:THR:CG2	21:AU:4:LYS:HD2	2.39	0.51
23:DB:1196:C:H2'	23:DB:1197:G:H8	1.75	0.51
26:DD:5:VAL:HG12	26:DD:6:GLY:H	1.75	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:124:GLY:C	33:DL:125:LEU:HD23	2.32	0.51
41:BT:43:ILE:O	41:BT:47:VAL:HG23	2.11	0.51
28:BF:121:PHE:CZ	28:BF:169:LEU:HD12	2.46	0.51
23:DB:361:G:O2'	23:DB:362:A:H5'	2.11	0.51
27:BE:78:TRP:HE3	27:BE:78:TRP:N	2.09	0.51
29:DG:3:VAL:HG22	29:DG:4:ALA:N	2.25	0.51
1:AA:1486:G:H2'	1:AA:1487:G:C8	2.46	0.51
2:AC:146:LYS:HB2	2:AC:146:LYS:NZ	2.25	0.51
33:DL:39:LYS:NZ	33:DL:39:LYS:H	2.08	0.51
1:CA:662:U:H2'	1:CA:663:A:H8	1.75	0.51
1:AA:1202:U:C2'	1:AA:1203:C:H5'	2.41	0.51
30:DH:68:ARG:HD3	30:DH:71:LYS:HB2	1.92	0.51
23:DB:1828:G:O6	25:DC:219:VAL:HG11	2.11	0.51
1:AA:1122:U:H2'	1:AA:1123:U:C6	2.46	0.51
23:DB:545:U:H3'	23:DB:546:U:C5'	2.40	0.51
4:CE:156:ARG:HH22	7:CH:100:ILE:HG23	1.75	0.51
28:BF:108:PRO:HB3	28:BF:113:PHE:CD2	2.46	0.51
1:AA:1150:A:H1'	1:AA:1280:A:N6	2.26	0.51
1:CA:35:G:H2'	1:CA:36:C:C6	2.46	0.51
2:AC:184:ASN:HD22	2:AC:185:THR:N	2.08	0.51
23:DB:1309:G:OP1	49:D2:9:VAL:HG22	2.11	0.51
4:CE:28:ARG:NH2	4:CE:30:PHE:HB3	2.26	0.51
34:DM:118:LYS:HB2	34:DM:118:LYS:HZ3	1.75	0.51
25:BC:248:GLY:HA3	25:BC:252:LYS:HE3	1.91	0.51
28:BF:33:ILE:HG13	28:BF:34:THR:H	1.76	0.51
23:BB:2314:A:H5'	28:BF:34:THR:HG21	1.92	0.51
24:DV:21:ARG:HH21	24:DV:88:HIS:N	2.08	0.51
1:AA:767:A:H2'	1:AA:768:A:C8	2.46	0.51
1:CA:205:A:H2'	1:CA:206:C:C6	2.44	0.51
1:AA:539:A:H2'	1:AA:540:G:H8	1.74	0.51
12:CM:50:GLY:O	12:CM:54:THR:HG23	2.11	0.51
23:BB:1360:G:H2'	23:BB:1361:G:C5'	2.41	0.51
31:DJ:123:LYS:N	31:DJ:123:LYS:HD2	2.25	0.51
12:CM:6:ILE:N	12:CM:6:ILE:HD12	2.26	0.51
23:DB:2241:A:O2'	23:DB:2242:G:H5'	2.10	0.51
8:AI:10:ARG:HA	8:AI:77:ALA:HB1	1.92	0.51
23:DB:2821:A:H2'	23:DB:2822:G:C8	2.46	0.51
8:AI:113:LYS:HG2	8:AI:114:LYS:N	2.26	0.51
23:BB:2520:C:C6	23:BB:2567:G:H1'	2.46	0.51
41:BT:96:VAL:HG22	41:BT:97:GLY:H	1.75	0.51
23:BB:2653:U:H3'	23:BB:2654:A:H2'	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.45	0.51
23:BB:538:A:O2'	23:BB:539:G:H5'	2.10	0.51
23:DB:1248:G:P	27:DE:44:ARG:HH22	2.34	0.51
23:BB:1269:A:H2'	23:BB:1270:C:C6	2.46	0.51
1:CA:53:A:C2	1:CA:54:C:H1'	2.46	0.51
52:DI:59:THR:O	52:DI:59:THR:HG23	2.09	0.51
23:DB:2669:G:H2'	23:DB:2670:A:H8	1.76	0.51
23:BB:2076:U:O4'	23:BB:2076:U:O2	2.29	0.51
10:CK:14:GLN:HA	10:CK:77:GLY:HA3	1.92	0.51
1:CA:1461:G:O2'	1:CA:1462:C:H5'	2.11	0.50
43:DW:42:THR:HG21	43:DW:66:VAL:HG13	1.93	0.50
25:BC:160:TYR:HE2	25:BC:194:VAL:HA	1.76	0.50
35:DN:9:GLN:HE22	35:DN:39:PRO:HB3	1.75	0.50
43:BW:45:HIS:HA	43:BW:75:ASN:HB2	1.91	0.50
32:BK:84:CYS:O	32:BK:85:VAL:HB	2.10	0.50
46:DZ:32:LEU:N	46:DZ:32:LEU:HD22	2.26	0.50
34:BM:73:ILE:O	34:BM:74:THR:HB	2.11	0.50
16:AQ:46:HIS:HB2	16:AQ:70:LYS:HE3	1.93	0.50
46:DZ:55:GLY:O	46:DZ:60:PHE:N	2.44	0.50
8:AI:38:PHE:C	8:AI:44:ARG:HG2	2.31	0.50
34:DM:15:GLY:C	34:DM:16:ARG:HG3	2.31	0.50
38:BQ:61:ILE:HB	38:BQ:75:TYR:CE2	2.46	0.50
27:BE:3:LEU:HA	27:BE:117:ARG:CZ	2.41	0.50
41:BT:58:VAL:HG12	41:BT:59:ASN:N	2.26	0.50
26:BD:129:THR:O	26:BD:130:GLN:HB2	2.10	0.50
33:DL:59:ARG:HH12	50:D3:58:ILE:HG21	1.75	0.50
23:DB:2360:G:H5'	33:DL:58:TYR:OH	2.11	0.50
31:DJ:81:ILE:HG12	31:DJ:82:GLY:N	2.24	0.50
26:BD:83:ARG:HG2	26:BD:83:ARG:HH11	1.76	0.50
23:DB:2313:C:H2'	23:DB:2314:A:H8	1.76	0.50
28:DF:36:ASN:O	28:DF:151:LEU:HD12	2.11	0.50
39:BR:37:GLU:HG3	39:BR:38:VAL:N	2.26	0.50
39:DR:4:VAL:HA	39:DR:43:ASN:CG	2.32	0.50
5:AF:7:VAL:HG11	17:AR:64:LEU:HD21	1.92	0.50
12:CM:23:GLY:N	12:CM:69:ARG:HH22	2.09	0.50
1:CA:865:A:C2	1:CA:918:A:H4'	2.46	0.50
1:CA:1251:A:O2'	1:CA:1370:G:H5'	2.12	0.50
15:CP:60:TRP:HB3	15:CP:65:ALA:HB2	1.92	0.50
23:DB:1083:U:H2'	23:DB:1085:A:OP2	2.11	0.50
39:DR:69:GLY:H	39:DR:97:LYS:HB2	1.75	0.50
33:DL:103:ILE:HG13	33:DL:104:GLN:N	2.22	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1175:A:C3'	23:DB:1176:U:H5'	2.40	0.50
9:AJ:73:LEU:CD1	9:AJ:75:ASP:HB3	2.42	0.50
46:DZ:64:PHE:C	46:DZ:67:PRO:HD2	2.31	0.50
1:AA:80:A:N3	1:AA:81:A:H1'	2.26	0.50
8:CI:29:ILE:O	8:CI:29:ILE:HG23	2.11	0.50
4:CE:104:ILE:C	4:CE:104:ILE:HD13	2.31	0.50
35:BN:120:GLU:C	35:BN:121:LYS:HD2	2.32	0.50
29:BG:63:GLN:HG3	29:BG:64:ALA:N	2.26	0.50
14:CO:11:VAL:HG21	14:CO:21:THR:HG22	1.92	0.50
1:AA:1498:U:H3'	53:AA:1601:KSG:HN12	1.77	0.50
35:DN:102:PHE:CZ	35:DN:104:ALA:HB2	2.46	0.50
40:DS:45:VAL:C	40:DS:47:VAL:H	2.14	0.50
30:BH:57:LYS:HA	30:BH:57:LYS:HE3	1.93	0.50
1:CA:1319:A:P	18:CS:4:LEU:HD21	2.51	0.50
23:BB:1797:G:H5'	25:BC:251:THR:HA	1.93	0.50
23:BB:2195:U:H2'	23:BB:2196:C:C6	2.46	0.50
18:CS:62:THR:HG23	18:CS:63:ASP:N	2.26	0.50
12:CM:85:TYR:HA	12:CM:88:LEU:HD12	1.92	0.50
1:AA:712:A:O2'	1:AA:713:G:H5'	2.12	0.50
1:AA:370:C:H2'	1:AA:371:A:C8	2.46	0.50
31:DJ:122:LEU:O	31:DJ:123:LYS:HB2	2.11	0.50
22:DA:40:U:O2	22:DA:43:C:H5''	2.11	0.50
36:DO:90:VAL:HG11	36:DO:116:GLN:O	2.10	0.50
9:AJ:30:LYS:HD2	9:AJ:30:LYS:O	2.11	0.50
28:BF:118:ALA:HB2	28:BF:177:ARG:NH1	2.25	0.50
9:CJ:28:THR:HG22	9:CJ:86:ALA:HB1	1.92	0.50
24:DV:26:PHE:CE1	24:DV:42:LEU:HD12	2.46	0.50
23:DB:466:A:H2'	23:DB:467:G:H5'	1.92	0.50
1:CA:1228:C:C5'	12:CM:112:ARG:HB3	2.41	0.50
23:BB:1739:A:H2'	23:BB:1740:G:H8	1.74	0.50
23:DB:2653:U:H3'	23:DB:2654:A:H2'	1.92	0.50
24:BV:53:LYS:HE3	24:BV:55:GLU:HG3	1.92	0.50
16:CQ:32:ILE:O	16:CQ:32:ILE:HG12	2.11	0.50
1:CA:176:C:H2'	1:CA:177:G:N3	2.26	0.50
1:AA:692:U:H5	10:AK:27:ASN:HD22	1.58	0.50
23:DB:1091:G:O2'	23:DB:1092:C:H5'	2.11	0.50
4:AE:55:VAL:N	4:AE:56:PRO:HD2	2.26	0.50
15:AP:36:VAL:HG13	15:AP:36:VAL:O	2.12	0.50
37:DP:28:LYS:O	37:DP:30:TRP:N	2.44	0.50
23:BB:85:G:OP1	42:BU:5:ARG:HA	2.12	0.50
42:BU:73:ASN:HB2	42:BU:96:LYS:HZ2	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:13:ARG:HB2	26:BD:21:SER:HB2	1.93	0.50
43:DW:23:LYS:HG2	43:DW:57:THR:HA	1.92	0.50
25:BC:44:ASN:HA	25:BC:49:THR:O	2.11	0.50
25:BC:172:THR:O	25:BC:173:LEU:HB2	2.11	0.50
26:DD:37:VAL:HG12	26:DD:44:GLY:O	2.10	0.50
23:DB:2899:A:H2'	23:DB:2900:A:H8	1.74	0.50
31:BJ:137:PRO:O	31:BJ:139:VAL:HG13	2.11	0.50
50:B3:47:ALA:O	50:B3:48:MET:HG3	2.11	0.50
33:BL:126:ARG:NH2	33:BL:131:ALA:CB	2.73	0.50
24:BV:21:ARG:HE	24:BV:87:GLN:HB3	1.75	0.50
26:DD:116:LYS:HB3	35:DN:1:MET:HA	1.94	0.50
1:AA:402:G:H2'	1:AA:403:C:H6	1.75	0.50
8:AI:32:ARG:NH2	8:AI:36:GLN:HG2	2.26	0.50
28:BF:140:ILE:HG22	28:BF:142:TYR:H	1.76	0.50
38:BQ:84:LYS:O	38:BQ:85:ALA:HB2	2.12	0.50
39:BR:4:VAL:HG22	39:BR:5:PHE:N	2.26	0.50
27:BE:151:GLY:HA2	27:BE:171:ASP:HA	1.93	0.50
10:AK:113:THR:HG21	21:AU:28:LEU:HD21	1.93	0.50
21:AU:3:ILE:HG12	21:AU:19:LYS:HB3	1.92	0.50
33:DL:85:VAL:HG21	33:DL:96:LYS:HG3	1.94	0.50
26:BD:17:GLU:OE1	37:BP:32:VAL:HG11	2.12	0.50
23:BB:2515:C:O2'	23:BB:2516:A:H5'	2.11	0.50
23:DB:2514:U:H2'	23:DB:2515:C:C6	2.47	0.50
26:DD:127:PHE:C	26:DD:128:ARG:HD3	2.31	0.50
24:DV:9:ARG:NE	24:DV:20:LEU:HD11	2.27	0.50
23:BB:2636:C:H2'	23:BB:2637:U:C6	2.46	0.50
26:BD:87:GLY:O	26:BD:88:GLU:HB2	2.10	0.50
4:CE:109:ALA:HB3	4:CE:135:VAL:CG1	2.41	0.50
2:AC:38:VAL:HG12	2:AC:93:ILE:CG2	2.42	0.50
52:DI:52:LEU:HD22	52:DI:81:LYS:HD3	1.92	0.50
1:CA:1338:G:H2'	1:CA:1339:A:C8	2.46	0.50
23:BB:221:A:H2'	23:BB:266:G:N7	2.26	0.50
10:CK:70:ALA:O	10:CK:74:LYS:HB2	2.10	0.50
48:D1:7:LYS:HG2	48:D1:26:LYS:N	2.26	0.50
29:DG:120:ILE:HD13	29:DG:140:ILE:HD13	1.93	0.50
23:BB:1439:A:N7	23:BB:1440:U:C2	2.79	0.50
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.77	0.50
38:BQ:71:ASN:HD22	38:BQ:109:VAL:HG21	1.77	0.50
16:CQ:46:HIS:HB3	16:CQ:73:THR:HG22	1.94	0.50
38:BQ:22:GLY:HA2	38:BQ:28:SER:OG	2.10	0.50
23:BB:2896:C:H2'	23:BB:2897:U:C6	2.46	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:207:ALA:HA	25:BC:211:ARG:HB2	1.93	0.50
9:CJ:66:GLU:HB2	13:CN:98:ALA:CB	2.39	0.50
17:CR:51:GLN:HE21	17:CR:54:LEU:HB2	1.76	0.50
23:DB:1029:A:H2'	23:DB:1030:C:O4'	2.11	0.50
23:BB:557:C:H2'	23:BB:558:U:C6	2.46	0.50
20:AB:139:GLU:HG2	20:AB:143:LEU:HG	1.92	0.50
1:CA:676:A:O2'	1:CA:677:U:H5'	2.10	0.50
1:CA:908:A:H2'	1:CA:909:A:C8	2.46	0.50
23:BB:841:G:O2'	23:BB:842:U:H5'	2.12	0.50
23:DB:2076:U:O2	23:DB:2076:U:O4'	2.29	0.50
23:DB:2107:G:H2'	23:DB:2108:A:C8	2.45	0.50
28:BF:176:PHE:O	28:BF:177:ARG:HB3	2.11	0.50
6:CG:56:SER:HB3	6:CG:59:GLU:HB2	1.92	0.50
23:DB:401:A:O2'	23:DB:402:A:H5'	2.11	0.50
25:BC:266:ILE:HG13	25:BC:266:ILE:O	2.10	0.50
23:DB:1917:U:C2'	23:DB:1918:A:H5'	2.42	0.50
23:DB:1939:U:H5'	23:DB:1939:U:H6	1.75	0.50
23:DB:1211:C:O2'	23:DB:1212:G:P	2.69	0.50
3:CD:71:PHE:HA	3:CD:74:TYR:HD2	1.75	0.50
3:AD:170:LEU:HB2	3:AD:180:THR:O	2.11	0.50
23:BB:243:U:OP1	50:B3:4:LYS:HG2	2.11	0.50
23:BB:256:A:H2'	23:BB:257:C:H6	1.77	0.50
23:DB:723:C:H2'	23:DB:724:U:C6	2.47	0.50
1:CA:346:G:OP1	37:DP:43:GLU:HG3	2.11	0.50
3:CD:81:LEU:HB2	3:CD:88:ASN:ND2	2.25	0.50
1:AA:53:A:C2	1:AA:54:C:H1'	2.46	0.50
1:CA:724:G:O2'	1:CA:725:G:H5'	2.11	0.50
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.11	0.50
23:DB:1269:A:H2'	23:DB:1270:C:C6	2.46	0.50
23:DB:729:G:H4'	23:DB:763:G:H5'	1.92	0.50
26:DD:70:LYS:HZ2	26:DD:70:LYS:HB3	1.75	0.50
30:DH:72:ILE:HG22	30:DH:72:ILE:O	2.11	0.50
1:AA:629:A:H2'	1:AA:630:A:O4'	2.11	0.50
1:AA:505:G:H5'	1:AA:534:U:H2'	1.94	0.50
23:DB:2849:U:H4'	23:DB:2868:A:C2	2.46	0.50
42:BU:23:LYS:HZ3	42:BU:24:VAL:HG22	1.76	0.50
30:BH:90:LEU:CD2	30:BH:146:VAL:HG11	2.41	0.50
27:BE:46:GLN:O	27:BE:48:THR:N	2.44	0.50
23:BB:2682:A:O2'	23:BB:2683:C:H5'	2.11	0.50
23:BB:2867:G:N3	23:BB:2867:G:C2'	2.73	0.50
23:DB:2831:G:O4'	23:DB:2883:A:C2	2.65	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:DJ:125:TYR:OH	31:DJ:134:ALA:HB2	2.10	0.50
43:BW:24:ARG:HD2	43:BW:57:THR:O	2.12	0.50
18:AS:29:PRO:HA	18:AS:47:THR:HB	1.94	0.50
27:DE:163:ASN:N	27:DE:168:ASP:HA	2.25	0.50
33:BL:83:ALA:HB2	33:BL:120:VAL:HG23	1.94	0.50
23:DB:64:A:H5'	41:DT:76:ARG:HG3	1.94	0.50
23:DB:773:U:H5'	23:DB:774:G:OP2	2.11	0.50
23:DB:850:U:H2'	23:DB:851:C:H6	1.76	0.50
18:CS:38:THR:HA	18:CS:69:LYS:HA	1.93	0.50
23:BB:910:A:C8	34:BM:16:ARG:HB2	2.46	0.50
27:BE:165:HIS:O	27:BE:166:LYS:HG3	2.11	0.50
23:DB:633:A:H2'	23:DB:634:C:C5'	2.41	0.50
23:BB:137:U:H2'	23:BB:138:U:H5'	1.94	0.50
44:BX:18:LEU:HD23	44:BX:18:LEU:H	1.76	0.50
30:BH:68:ARG:HG3	30:BH:134:VAL:CG1	2.38	0.50
23:BB:2514:U:H2'	23:BB:2515:C:C6	2.46	0.50
23:DB:1655:A:H4'	26:DD:120:GLY:N	2.26	0.50
7:AH:110:MET:HB3	7:AH:114:ALA:HB3	1.93	0.50
29:BG:25:ILE:HG23	29:BG:25:ILE:O	2.11	0.50
1:CA:783:C:O2'	1:CA:784:A:H5'	2.10	0.50
13:AN:30:ILE:CG2	13:AN:41:TRP:HB2	2.37	0.50
38:DQ:60:TRP:CZ3	38:DQ:93:ILE:HG22	2.47	0.50
29:DG:137:LYS:O	29:DG:140:ILE:HB	2.10	0.50
8:CI:30:ASN:C	8:CI:32:ARG:H	2.14	0.50
34:DM:127:LYS:NZ	34:DM:129:THR:H	2.08	0.50
48:B1:10:LEU:HD21	48:B1:34:GLU:HG3	1.93	0.50
11:CL:86:VAL:HG11	11:CL:89:LEU:HD23	1.93	0.50
52:BI:138:VAL:HG12	52:BI:139:VAL:N	2.26	0.50
8:AI:71:ILE:N	8:AI:71:ILE:HD12	2.23	0.50
38:BQ:102:LYS:HG2	38:BQ:103:VAL:N	2.26	0.50
9:AJ:92:LEU:N	9:AJ:92:LEU:HD22	2.25	0.50
23:DB:1438:U:H5'	23:DB:1516:G:O2'	2.10	0.50
23:DB:2471:A:O2'	23:DB:2472:G:C8	2.54	0.50
2:CC:127:VAL:HG23	2:CC:128:MET:N	2.26	0.50
8:AI:23:GLY:N	8:AI:60:LEU:HA	2.24	0.50
3:AD:197:HIS:O	3:AD:201:GLU:HG3	2.10	0.50
4:AE:71:ILE:HG12	4:AE:72:ASN:N	2.27	0.50
29:BG:85:LYS:HA	29:BG:130:ILE:O	2.11	0.50
1:CA:98:A:H2'	1:CA:99:C:H6	1.73	0.50
52:BI:5:GLN:HG2	52:BI:6:ALA:H	1.74	0.50
29:DG:23:ILE:HG13	29:DG:23:ILE:O	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:529:A:OP2	31:BJ:113:PRO:HD3	2.11	0.50
18:CS:44:ILE:HG23	18:CS:63:ASP:HB2	1.94	0.50
16:AQ:35:LYS:O	16:AQ:37:ILE:HG13	2.11	0.50
1:CA:314:C:O2'	1:CA:315:A:H5'	2.11	0.50
44:BX:11:VAL:HG22	44:BX:11:VAL:O	2.10	0.50
5:CF:39:LEU:O	5:CF:39:LEU:HD13	2.11	0.50
1:CA:1520:C:H2'	1:CA:1521:C:H6	1.74	0.50
28:BF:116:LEU:H	28:BF:176:PHE:HA	1.76	0.50
23:BB:1038:G:H2'	23:BB:1039:A:H8	1.76	0.50
23:DB:1916:A:H2'	23:DB:1917:U:O4'	2.11	0.50
20:AB:184:ALA:HB3	20:AB:195:VAL:HG21	1.93	0.50
23:DB:2139:U:O2'	23:DB:2140:G:H5'	2.11	0.50
22:BA:13:G:O2'	22:BA:15:A:H5''	2.11	0.50
1:AA:423:G:H2'	1:AA:424:G:O4'	2.10	0.50
6:CG:45:ALA:HB1	6:CG:120:ALA:HB2	1.93	0.50
1:AA:685:G:O2'	1:AA:686:U:H5'	2.10	0.50
1:CA:706:A:H2	10:CK:40:ALA:HB2	1.75	0.50
3:AD:96:ARG:O	3:AD:100:VAL:HG23	2.11	0.50
1:CA:853:C:O2'	1:CA:854:U:H5'	2.12	0.50
7:AH:40:LYS:HD2	7:AH:48:PHE:CE1	2.47	0.50
15:AP:57:ILE:O	15:AP:61:VAL:HG22	2.11	0.50
23:BB:2630:G:H2'	23:BB:2631:G:H8	1.76	0.50
27:BE:44:ARG:N	27:BE:44:ARG:CD	2.73	0.50
35:DN:33:ILE:HG23	35:DN:112:TYR:HB3	1.93	0.50
25:DC:92:LEU:HD13	25:DC:102:TYR:CE2	2.47	0.50
31:DJ:131:ASN:C	31:DJ:133:ALA:N	2.64	0.50
31:BJ:101:ILE:HG23	31:BJ:102:GLU:N	2.20	0.50
41:DT:76:ARG:NH1	41:DT:78:SER:HB2	2.16	0.50
26:BD:170:VAL:HG11	26:BD:194:PRO:HG2	1.92	0.50
38:DQ:63:ARG:HG3	38:DQ:96:ASP:OD1	2.12	0.50
12:AM:10:ASP:HA	12:AM:44:ILE:CD1	2.41	0.50
1:AA:1302:C:O4'	12:AM:16:ILE:HD11	2.12	0.50
12:CM:55:LEU:O	12:CM:59:VAL:HG12	2.11	0.50
23:BB:1676:A:H1'	26:BD:134:HIS:HB3	1.94	0.50
13:CN:9:GLU:OE2	13:CN:60:ARG:HB3	2.12	0.50
23:BB:543:G:H2'	23:BB:544:C:C5'	2.35	0.50
40:DS:103:ILE:O	40:DS:104:THR:HB	2.11	0.50
1:CA:1308:U:H2'	1:CA:1309:G:H8	1.75	0.50
1:CA:1254:A:H61	1:CA:1283:U:H3	1.60	0.50
23:BB:2370:G:H2'	23:BB:2371:G:O4'	2.10	0.50
2:CC:69:THR:HG21	2:CC:75:VAL:HG21	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:17:LYS:HD2	29:BG:17:LYS:O	2.09	0.50
13:AN:30:ILE:C	13:AN:32:ASP:H	2.14	0.50
35:DN:54:LEU:HD22	35:DN:66:ALA:HB2	1.94	0.50
37:BP:109:ILE:O	37:BP:110:LYS:C	2.50	0.50
47:D0:26:SER:HB2	47:D0:38:LEU:CG	2.42	0.50
23:DB:2886:A:N7	47:D0:27:LEU:HG	2.26	0.50
10:CK:23:HIS:HB3	10:CK:30:ILE:CG1	2.39	0.50
1:AA:1252:A:H2'	1:AA:1253:G:C5'	2.39	0.50
25:DC:243:PRO:HA	25:DC:249:VAL:HG23	1.93	0.50
33:DL:55:MET:H	33:DL:56:PRO:CD	2.25	0.50
1:AA:1499:A:OP1	53:AA:1601:KSG:N1	2.45	0.50
23:BB:1412:U:H2'	23:BB:1413:A:H8	1.76	0.50
23:BB:2248:C:C2'	23:BB:2249:U:H5'	2.40	0.50
23:DB:439:A:O2'	23:DB:440:C:H5'	2.11	0.50
40:DS:72:THR:HG21	40:DS:108:SER:OG	2.11	0.50
31:BJ:28:LEU:HG	31:BJ:32:LEU:CD1	2.41	0.50
20:AB:112:ARG:HA	20:AB:115:ASP:OD2	2.11	0.50
1:CA:1526:G:H2'	1:CA:1527:U:C6	2.46	0.50
1:AA:957:U:H4'	18:AS:78:THR:HB	1.93	0.50
3:AD:120:LYS:HB2	3:AD:145:ARG:HH21	1.75	0.50
23:BB:1159:U:O2'	23:BB:1160:G:H5'	2.11	0.50
30:DH:62:LEU:O	30:DH:66:ASN:HB2	2.12	0.50
23:BB:2700:A:H2'	23:BB:2701:U:H6	1.76	0.50
4:CE:152:VAL:HA	4:CE:155:LYS:HD3	1.93	0.50
23:DB:674:G:O2'	27:DE:69:ARG:HD2	2.12	0.50
1:CA:114:U:H2'	1:CA:115:G:C8	2.47	0.50
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.45	0.50
23:DB:1562:U:H2'	23:DB:1563:U:C6	2.46	0.50
23:DB:490:C:H3'	23:DB:491:G:C5'	2.42	0.50
23:DB:2665:A:C2'	23:DB:2666:C:H5'	2.41	0.50
52:BI:49:GLU:HG2	52:BI:54:ILE:HD11	1.93	0.50
23:BB:771:G:O2'	23:BB:772:C:H5'	2.11	0.50
1:CA:846:G:H2'	1:CA:846:G:N3	2.27	0.50
17:AR:70:THR:HG23	17:AR:71:ASP:N	2.27	0.50
23:DB:145:C:H2'	23:DB:146:A:H8	1.77	0.50
15:CP:36:VAL:HG23	15:CP:56:ARG:HB2	1.93	0.50
23:DB:786:C:O2'	23:DB:787:C:H5'	2.10	0.50
1:CA:638:U:H2'	1:CA:639:G:O4'	2.11	0.50
1:AA:761:G:H2'	1:AA:762:U:C6	2.46	0.50
23:DB:279:A:H2'	23:DB:280:U:O4'	2.11	0.50
19:CT:24:ARG:HA	19:CT:65:LEU:HD21	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:55:VAL:HG12	2:AC:56:ILE:N	2.26	0.50
42:BU:21:ARG:HG2	42:BU:21:ARG:HH11	1.76	0.50
23:BB:550:C:H2'	23:BB:550:C:O2	2.10	0.50
29:DG:102:ILE:O	29:DG:102:ILE:HG23	2.12	0.50
1:AA:309:A:H2'	1:AA:310:G:H8	1.76	0.50
23:BB:1511:G:H2'	23:BB:1512:C:H6	1.77	0.50
1:CA:973:G:H3'	1:CA:974:A:C5'	2.30	0.50
23:DB:2743:U:C3'	23:DB:2744:G:H5''	2.42	0.50
26:BD:7:LYS:HE2	26:BD:193:VAL:HG13	1.92	0.50
23:BB:1818:U:C3'	25:BC:155:ARG:HB2	2.41	0.50
25:BC:155:ARG:HH11	25:BC:157:ALA:HB2	1.76	0.50
26:DD:60:VAL:O	26:DD:63:PRO:HD2	2.12	0.50
35:DN:115:LEU:N	35:DN:115:LEU:HD23	2.26	0.50
25:DC:103:ILE:HG22	25:DC:104:LEU:H	1.77	0.50
23:BB:1019:U:OP1	23:BB:1035:U:O2'	2.29	0.50
20:AB:49:PHE:O	20:AB:53:LEU:HD23	2.11	0.50
27:DE:192:ALA:HB1	27:DE:199:MET:CG	2.42	0.50
15:AP:42:ILE:CG2	15:AP:43:ALA:H	2.18	0.50
32:BK:99:ILE:HG22	32:BK:119:ALA:HB2	1.93	0.50
23:BB:2052:A:O5'	26:BD:147:GLY:HA3	2.12	0.50
26:DD:117:GLY:O	26:DD:164:GLN:HA	2.12	0.50
39:BR:75:VAL:N	39:BR:90:ARG:HE	2.07	0.50
31:DJ:37:ARG:NH1	31:DJ:110:PRO:HG3	2.27	0.50
31:DJ:5:THR:HG21	31:DJ:7:LYS:NZ	2.26	0.50
18:CS:52:ASN:ND2	18:CS:76:THR:HA	2.26	0.50
23:DB:910:A:C8	34:DM:16:ARG:HB3	2.47	0.50
23:BB:2740:A:H2'	23:BB:2741:A:C8	2.46	0.50
23:DB:2636:C:H2'	23:DB:2637:U:C6	2.46	0.50
23:DB:2636:C:P	26:DD:80:TRP:HE1	2.34	0.50
37:DP:100:ARG:H	37:DP:100:ARG:CD	2.25	0.50
49:B2:43:THR:O	49:B2:44:VAL:C	2.49	0.50
23:BB:2516:A:O2'	23:BB:2517:C:H5'	2.12	0.50
26:BD:114:LYS:HB3	35:BN:3:HIS:CE1	2.46	0.50
13:CN:13:VAL:HG13	13:CN:59:GLN:HE22	1.76	0.50
33:DL:58:TYR:HA	33:DL:62:PRO:CD	2.42	0.50
32:DK:110:GLU:HA	32:DK:113:MET:HE3	1.92	0.50
23:BB:2143:C:H2'	23:BB:2144:G:O4'	2.10	0.50
33:DL:118:THR:CG2	33:DL:137:ALA:HB3	2.41	0.50
35:BN:17:ARG:O	35:BN:21:PHE:HB2	2.11	0.50
23:BB:1080:A:O2'	23:BB:1081:U:H5'	2.10	0.50
22:DA:31:C:O2'	22:DA:53:A:N1	2.44	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B0:46:GLY:HA3	47:B0:53:VAL:HG21	1.94	0.50
25:DC:207:ALA:HA	25:DC:211:ARG:HB3	1.94	0.50
25:DC:3:VAL:HG12	25:DC:4:LYS:N	2.27	0.50
1:AA:812:G:O2'	1:AA:813:U:C6	2.58	0.50
38:DQ:5:ARG:HD2	38:DQ:5:ARG:O	2.11	0.50
40:DS:42:LYS:HD3	40:DS:42:LYS:O	2.11	0.50
4:AE:81:GLN:HE21	4:AE:147:ASN:C	2.14	0.50
48:B1:31:GLU:H	48:B1:32:LYS:HZ1	1.59	0.50
23:DB:363:G:H2'	23:DB:364:C:H6	1.74	0.50
3:AD:24:VAL:C	3:AD:25:ARG:HD2	2.31	0.50
23:DB:2412:A:H2'	23:DB:2413:G:O4'	2.11	0.50
20:CB:206:ILE:HG22	20:CB:207:ARG:NH2	2.26	0.50
24:BV:76:ASP:HB2	34:BM:136:MET:SD	2.52	0.50
10:AK:54:SER:HA	10:AK:56:LYS:HE3	1.92	0.50
1:CA:370:C:H2'	1:CA:371:A:C8	2.46	0.50
1:AA:372:C:H4'	1:AA:373:A:H5'	1.94	0.50
23:DB:1681:G:H2'	23:DB:1757:A:N1	2.27	0.50
36:DO:80:GLU:O	36:DO:83:LEU:HD13	2.10	0.50
43:DW:48:ALA:O	43:DW:72:GLY:HA3	2.12	0.50
2:AC:126:ARG:HH22	2:AC:190:THR:CG2	2.25	0.50
1:AA:1507:A:H2'	1:AA:1508:A:C8	2.47	0.50
1:AA:602:A:O2'	1:AA:603:U:H5'	2.11	0.50
5:AF:99:ALA:O	5:AF:100:SER:HB2	2.11	0.50
23:BB:2665:A:C2'	23:BB:2666:C:H5'	2.41	0.50
52:DI:99:LYS:HD3	52:DI:99:LYS:N	2.26	0.50
7:CH:17:GLN:HG3	7:CH:71:VAL:CG2	2.41	0.50
36:BO:54:VAL:HG21	36:BO:78:VAL:HG11	1.94	0.50
23:DB:1396:U:O4'	23:DB:1396:U:O2	2.28	0.50
1:AA:751:U:H2'	1:AA:752:G:O4'	2.12	0.50
1:AA:751:U:H4'	14:AO:23:SER:HA	1.92	0.50
23:BB:103:A:H2'	23:BB:104:A:O4'	2.12	0.50
1:AA:697:U:H2'	1:AA:698:G:H5'	1.93	0.50
1:CA:761:G:H2'	1:CA:762:U:C6	2.46	0.50
36:BO:18:LEU:HD12	36:BO:18:LEU:C	2.31	0.50
23:DB:2056:G:H21	47:D0:1:ALA:HB3	1.76	0.50
23:BB:2256:G:O2'	23:BB:2257:U:H5'	2.12	0.50
40:DS:64:ALA:H	40:DS:110:ARG:NH2	2.10	0.50
6:CG:16:LYS:HD3	6:CG:16:LYS:O	2.11	0.50
1:CA:963:G:H2'	1:CA:964:A:H8	1.75	0.50
1:AA:638:U:H2'	1:AA:639:G:O4'	2.11	0.50
37:DP:25:VAL:O	37:DP:27:VAL:HG12	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:D4:22:VAL:HG13	51:D4:37:GLN:HB3	1.93	0.50
23:DB:2742:G:O2'	23:DB:2743:U:H5'	2.12	0.50
23:DB:46:G:H2'	23:DB:47:C:H6	1.77	0.50
23:BB:2334:U:OP2	36:BO:7:ARG:HA	2.11	0.50
31:DJ:133:ALA:C	31:DJ:135:GLN:N	2.65	0.50
23:DB:2020:A:C2	23:DB:2022:U:O4'	2.64	0.50
27:BE:131:THR:O	27:BE:134:LEU:HB2	2.12	0.50
42:BU:82:VAL:HB	42:BU:94:PHE:CD2	2.47	0.50
23:DB:1205:A:C8	27:DE:165:HIS:HA	2.47	0.50
27:DE:142:ALA:N	27:DE:185:LYS:NZ	2.52	0.50
50:B3:7:ARG:HH21	50:B3:11:LYS:HZ2	1.57	0.50
33:BL:123:ARG:HH22	33:BL:141:LYS:HZ1	1.57	0.50
33:BL:109:LYS:HA	33:BL:126:ARG:CB	2.42	0.50
32:BK:23:LYS:HG3	32:BK:24:VAL:H	1.75	0.50
38:BQ:40:LYS:HA	38:BQ:43:GLN:HE21	1.77	0.50
25:DC:268:ARG:HG3	25:DC:268:ARG:HH11	1.77	0.50
41:DT:53:VAL:HB	41:DT:93:LEU:HD21	1.93	0.50
23:DB:969:G:OP1	45:DY:17:PRO:HG3	2.11	0.50
1:CA:1221:G:OP1	18:CS:35:ARG:HD2	2.11	0.50
23:BB:2025:C:H2'	23:BB:2026:U:H6	1.77	0.50
25:BC:61:TYR:CE2	25:BC:63:ILE:HD11	2.47	0.50
5:CF:29:ILE:HG21	5:CF:64:VAL:HG11	1.93	0.50
5:AF:45:ARG:HG2	5:AF:46:GLN:N	2.26	0.50
23:BB:2262:U:H4'	23:BB:2328:A:H2	1.76	0.50
3:CD:169:TRP:CE3	3:CD:185:PRO:HB3	2.46	0.50
1:AA:437:U:C2'	1:AA:438:U:O4'	2.51	0.50
30:DH:122:LEU:HD13	30:DH:146:VAL:CG2	2.36	0.50
30:BH:58:LEU:HA	30:BH:62:LEU:HD12	1.94	0.50
28:BF:168:LEU:HD12	28:BF:169:LEU:N	2.15	0.50
1:AA:1504:G:H4'	1:AA:1505:G:C4	2.47	0.50
26:DD:146:ILE:CD1	26:DD:146:ILE:H	2.24	0.50
1:AA:1210:C:O2'	1:AA:1211:U:H5'	2.11	0.50
44:DX:16:THR:OG1	44:DX:19:LEU:HB3	2.12	0.50
25:DC:216:ARG:O	25:DC:218:THR:N	2.44	0.50
13:CN:40:ARG:O	13:CN:45:LEU:HD11	2.11	0.50
13:CN:42:ASN:HA	13:CN:45:LEU:HD12	1.94	0.50
32:DK:11:ALA:O	32:DK:99:ILE:HG23	2.10	0.50
39:DR:47:VAL:HG22	39:DR:48:LYS:N	2.18	0.50
20:CB:115:ASP:O	20:CB:119:GLN:HG2	2.12	0.50
1:CA:1008:U:H5''	13:CN:23:ARG:NH2	2.20	0.50
29:BG:18:ILE:CD1	29:BG:18:ILE:H	2.25	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:73:ASN:HA	35:DN:76:VAL:HG12	1.93	0.50
2:AC:183:TYR:HE1	2:AC:198:LYS:HB3	1.75	0.50
2:AC:71:ARG:O	2:AC:75:VAL:HG23	2.11	0.50
1:AA:1004:A:H62	1:AA:1025:U:H5'	1.77	0.50
28:DF:98:PHE:HA	28:DF:101:ARG:HG2	1.93	0.50
36:BO:31:THR:HG21	36:BO:36:TYR:CE1	2.46	0.50
8:AI:11:ARG:HG3	8:AI:11:ARG:O	2.10	0.50
9:CJ:66:GLU:HG2	9:CJ:67:ILE:H	1.77	0.50
35:DN:10:LEU:O	35:DN:11:ASN:ND2	2.45	0.50
23:BB:1796:U:H2'	23:BB:1797:G:C8	2.46	0.50
23:BB:1373:A:OP1	23:BB:2213:U:O4	2.29	0.50
1:AA:60:A:H1'	1:AA:61:G:O4'	2.12	0.50
22:DA:66:A:N6	22:DA:107:G:C5	2.79	0.50
1:AA:864:A:H2'	1:AA:865:A:C8	2.46	0.50
23:DB:2405:G:H1'	23:DB:2412:A:H61	1.75	0.50
4:CE:52:ALA:HB2	4:CE:61:LYS:HE2	1.93	0.50
23:BB:557:C:H2'	23:BB:558:U:H6	1.76	0.50
23:BB:1531:C:H2'	23:BB:1532:A:H8	1.75	0.50
23:BB:833:A:H2'	23:BB:834:G:H8	1.74	0.50
37:DP:55:HIS:C	37:DP:57:ALA:N	2.64	0.50
1:CA:1118:U:H5'	1:CA:1118:U:H6	1.76	0.50
23:DB:935:C:H2'	23:DB:936:A:C8	2.47	0.50
1:AA:769:G:O2'	1:AA:770:C:H5'	2.11	0.50
1:CA:1200:C:H4'	1:CA:1201:A:H5'	1.94	0.50
1:CA:143:A:H2	1:CA:220:G:H22	1.59	0.50
23:BB:2439:A:C8	23:BB:2586:U:H4'	2.47	0.50
23:DB:2771:C:H2'	23:DB:2772:C:H6	1.76	0.50
4:CE:15:ILE:HG22	4:CE:16:ALA:H	1.77	0.50
15:CP:25:ARG:H	15:CP:25:ARG:HD3	1.76	0.50
1:CA:1427:C:O2'	1:CA:1428:A:H5'	2.11	0.50
23:DB:1313:U:H4'	23:DB:1332:G:H4'	1.94	0.50
27:BE:139:LYS:HE2	27:BE:139:LYS:HA	1.93	0.50
1:CA:1492:A:N6	1:CA:1494:G:C8	2.80	0.50
6:AG:46:LEU:O	6:AG:46:LEU:HD13	2.11	0.50
23:BB:408:G:O2'	23:BB:409:G:H5'	2.12	0.50
42:BU:24:VAL:C	42:BU:25:LYS:HD3	2.32	0.50
30:BH:85:GLY:O	30:BH:89:LYS:N	2.45	0.50
23:BB:38:A:C8	27:BE:46:GLN:CD	2.85	0.50
37:BP:61:ARG:O	37:BP:63:ILE:HD12	2.11	0.50
43:DW:42:THR:H	43:DW:65:LYS:CG	2.22	0.50
25:BC:136:VAL:O	25:BC:163:ILE:HB	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:67:LYS:HB3	25:BC:149:LYS:O	2.12	0.50
23:BB:855:G:N2	43:BW:23:LYS:HB3	2.26	0.50
23:DB:299:A:H2'	23:DB:300:A:C8	2.46	0.50
27:DE:199:MET:O	27:DE:200:LEU:HD23	2.12	0.50
33:BL:92:LEU:HG	33:BL:96:LYS:NZ	2.27	0.50
23:BB:2485:G:H5'	34:BM:45:GLN:OE1	2.12	0.50
23:BB:2020:A:C2	23:BB:2022:U:O4'	2.64	0.50
26:BD:149:ASN:C	26:BD:150:GLN:HG2	2.32	0.50
38:BQ:13:HIS:O	38:BQ:17:LEU:HB2	2.12	0.50
23:DB:1139:G:O2'	23:DB:1140:C:H5'	2.12	0.50
1:AA:980:C:H2'	1:AA:981:U:H5'	1.93	0.50
23:BB:993:G:O2'	23:BB:994:C:H5'	2.11	0.50
23:BB:988:A:OP2	45:BY:11:SER:HA	2.12	0.50
8:AI:50:PRO:HG2	8:AI:51:LEU:HD12	1.92	0.50
28:BF:106:ALA:CB	28:BF:136:ILE:HG23	2.42	0.50
34:DM:16:ARG:HG2	34:DM:16:ARG:HH11	1.77	0.50
38:BQ:111:LYS:O	38:BQ:115:ALA:HB2	2.12	0.50
38:BQ:88:GLU:HA	39:BR:53:PHE:CD1	2.47	0.50
27:BE:104:ALA:O	27:BE:105:LEU:HD23	2.12	0.50
27:BE:170:ARG:NH2	27:BE:175:ILE:HA	2.26	0.50
21:AU:26:GLY:C	21:AU:28:LEU:H	2.15	0.50
1:CA:1219:A:H2'	1:CA:1220:G:H8	1.75	0.50
23:BB:2821:A:H2'	23:BB:2822:G:C8	2.46	0.50
23:BB:2822:G:OP1	26:BD:166:GLY:HA2	2.11	0.50
23:DB:2420:C:H3'	50:D3:31:ILE:CG2	2.42	0.50
27:BE:57:LYS:O	27:BE:59:PRO:HD3	2.11	0.50
2:AC:155:ARG:NH1	2:AC:192:TYR:HB2	2.27	0.50
23:BB:2675:A:OP1	32:BK:31:ARG:HG2	2.10	0.50
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.47	0.50
28:DF:174:PHE:N	28:DF:175:PRO:HD2	2.23	0.50
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.75	0.50
4:AE:101:GLY:H	4:AE:121:ASN:ND2	2.07	0.50
38:BQ:7:VAL:HG23	38:BQ:8:ILE:N	2.18	0.50
41:DT:11:LEU:HB3	41:DT:34:VAL:HG23	1.92	0.50
23:DB:125:A:O2'	23:DB:126:A:OP1	2.24	0.50
52:DI:21:PRO:CB	52:DI:22:PRO:HD3	2.39	0.50
1:CA:806:C:H2'	1:CA:807:A:C8	2.46	0.50
25:DC:21:PRO:C	25:DC:202:ARG:HD2	2.32	0.50
25:BC:77:VAL:HA	25:BC:93:VAL:HG22	1.94	0.50
12:CM:102:LYS:HG3	12:CM:103:THR:N	2.26	0.50
48:B1:36:LYS:N	48:B1:36:LYS:HD2	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:29:HIS:HD2	33:DL:19:LEU:HD11	1.76	0.50
7:CH:77:VAL:CG2	7:CH:126:CYS:HA	2.42	0.50
23:DB:725:G:H2'	23:DB:726:G:C1'	2.41	0.50
1:CA:1171:A:H2'	1:CA:1172:C:H6	1.77	0.50
24:DV:65:VAL:C	24:DV:67:GLY:H	2.15	0.50
7:AH:76:ARG:HE	7:AH:79:ARG:HA	1.77	0.50
23:DB:2464:G:H2'	23:DB:2465:C:H6	1.75	0.50
23:DB:242:G:H22	23:DB:254:G:H2'	1.76	0.50
3:CD:84:ASN:HD21	3:CD:87:GLU:H	1.58	0.50
23:BB:1313:U:H4'	23:BB:1332:G:H4'	1.94	0.50
52:DI:85:ILE:HD12	52:DI:87:SER:O	2.12	0.50
20:CB:85:SER:O	20:CB:86:CYS:HB2	2.12	0.50
6:CG:29:LEU:HD11	6:CG:119:LEU:HD22	1.94	0.50
1:CA:1026:G:H2'	1:CA:1027:C:O4'	2.12	0.50
23:BB:1236:G:O2'	23:BB:1237:A:O5'	2.29	0.50
5:CF:68:GLN:O	5:CF:71:ILE:HG22	2.11	0.50
23:DB:943:A:OP1	33:DL:41:ARG:HG2	2.12	0.50
16:CQ:43:LEU:HD12	16:CQ:43:LEU:N	2.27	0.50
23:BB:536:G:H4'	38:BQ:56:PHE:HZ	1.74	0.50
23:DB:2399:G:H1'	48:D1:20:TYR:OH	2.12	0.50
24:DV:57:TYR:HE2	24:DV:77:VAL:HG21	1.76	0.50
23:DB:1948:G:O2'	23:DB:1949:G:H5'	2.12	0.50
22:BA:32:U:H4'	22:BA:52:A:H62	1.76	0.50
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.11	0.50
32:BK:10:VAL:HG13	32:BK:19:VAL:HG21	1.94	0.50
23:BB:235:U:H2'	23:BB:236:C:H6	1.76	0.50
1:AA:251:G:H4'	1:AA:252:U:H5'	1.93	0.50
36:BO:59:ALA:HB3	36:BO:63:LYS:HB2	1.93	0.50
23:DB:441:U:H2'	23:DB:442:G:H8	1.76	0.50
47:B0:11:LYS:O	47:B0:12:ARG:HB3	2.12	0.50
34:BM:26:VAL:HG11	34:BM:134:THR:OG1	2.12	0.50
23:BB:2669:G:H2'	23:BB:2670:A:H8	1.76	0.50
23:BB:1909:C:H2'	23:BB:1910:G:H8	1.77	0.50
23:BB:1396:U:O4'	23:BB:1396:U:O2	2.28	0.50
1:AA:323:U:H2'	1:AA:324:G:O4'	2.11	0.50
1:AA:146:G:O2'	1:AA:147:G:H5'	2.11	0.50
20:AB:80:LYS:O	20:AB:84:LEU:N	2.45	0.50
33:BL:71:ALA:O	33:BL:72:ALA:C	2.50	0.50
1:AA:1261:A:H2'	1:AA:1262:C:O4'	2.11	0.50
23:DB:2500:U:H5'	23:DB:2501:C:OP2	2.12	0.50
37:BP:61:ARG:NH2	37:BP:63:ILE:HD11	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DW:43:LYS:H	43:DW:75:ASN:CG	2.15	0.50
25:BC:130:PRO:HA	25:BC:187:CYS:O	2.12	0.50
25:DC:192:GLY:O	25:DC:194:VAL:HG22	2.11	0.50
31:BJ:61:LYS:CE	31:BJ:61:LYS:HA	2.38	0.50
23:BB:922:C:H2'	23:BB:923:G:C8	2.47	0.50
33:DL:51:GLU:CG	33:DL:52:GLY:H	2.09	0.50
33:BL:116:VAL:HG21	33:BL:134:ALA:HB1	1.94	0.50
23:BB:968:C:H2'	23:BB:969:G:C8	2.45	0.50
26:DD:116:LYS:O	35:DN:2:ARG:HB3	2.12	0.50
45:BY:9:THR:HA	45:BY:55:LYS:HG3	1.92	0.50
8:AI:49:GLN:N	8:AI:50:PRO:HD2	2.27	0.50
8:AI:56:MET:HE2	8:AI:57:VAL:H	1.77	0.50
38:BQ:94:LEU:HD11	39:BR:10:LYS:HD2	1.94	0.50
39:BR:49:ILE:HG22	39:BR:51:VAL:CG2	2.42	0.50
40:BS:34:ASP:HA	40:BS:38:TYR:CD2	2.47	0.50
27:BE:120:VAL:HG12	27:BE:121:VAL:N	2.27	0.50
41:BT:28:ASN:HD22	41:BT:28:ASN:N	2.09	0.50
23:BB:535:G:N2	38:BQ:52:ARG:HH22	1.95	0.50
35:BN:1:MET:SD	35:BN:2:ARG:N	2.85	0.50
23:DB:2052:A:OP1	26:DD:145:SER:HB3	2.12	0.50
10:CK:108:ASN:OD1	10:CK:110:THR:HG23	2.12	0.50
26:DD:160:LYS:HA	26:DD:160:LYS:HE3	1.93	0.50
44:DX:25:GLN:CD	44:DX:29:ARG:HH21	2.14	0.50
26:BD:45:TYR:O	26:BD:46:ARG:HG2	2.12	0.50
26:BD:48:ILE:HA	26:BD:79:LEU:O	2.10	0.50
13:CN:40:ARG:HH12	18:CS:6:LYS:H	1.59	0.50
1:CA:1307:U:H2'	1:CA:1308:U:H6	1.76	0.50
25:BC:22:GLU:HA	25:BC:202:ARG:NE	2.26	0.50
3:AD:77:GLU:O	3:AD:81:LEU:HG	2.12	0.50
1:AA:969:A:N3	1:AA:970:C:O2	2.45	0.50
22:DA:30:C:C2'	22:DA:31:C:H5'	2.39	0.50
45:BY:6:ILE:HG22	45:BY:56:VAL:CG2	2.39	0.50
5:CF:100:SER:H	17:CR:23:LYS:HZ1	1.60	0.50
2:AC:180:ASP:C	2:AC:181:ILE:HD12	2.31	0.50
27:BE:88:ARG:HH11	27:BE:88:ARG:CB	2.22	0.50
52:DI:78:LEU:HD23	52:DI:81:LYS:HE2	1.93	0.50
28:DF:134:GLN:O	28:DF:135:ILE:C	2.48	0.50
28:DF:137:PHE:O	28:DF:139:GLU:HG2	2.12	0.50
23:BB:2809:A:H2'	23:BB:2810:A:H8	1.77	0.50
31:BJ:7:LYS:CD	31:BJ:48:VAL:HB	2.39	0.50
4:CE:111:ARG:HG2	4:CE:111:ARG:NH1	2.27	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:138:PRO:O	3:CD:139:ASN:HB3	2.12	0.50
36:DO:95:SER:O	36:DO:97:PHE:N	2.45	0.50
11:CL:113:ARG:CZ	11:CL:120:ARG:HA	2.42	0.50
23:BB:1386:C:H2'	23:BB:1387:A:H8	1.74	0.50
1:AA:734:G:N2	17:AR:63:TYR:CE2	2.80	0.50
5:AF:51:ILE:HD11	5:AF:86:ARG:HG3	1.94	0.50
1:AA:370:C:H2'	1:AA:371:A:H8	1.77	0.50
23:BB:827:U:H5'	23:BB:828:U:O5'	2.12	0.50
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.11	0.50
38:BQ:56:PHE:O	38:BQ:59:LEU:HB3	2.12	0.50
9:CJ:85:ASP:HB2	9:CJ:89:ARG:CZ	2.42	0.50
30:BH:69:ALA:HB1	30:BH:141:LYS:NZ	2.27	0.50
29:BG:102:ILE:HG22	29:BG:114:HIS:O	2.12	0.50
20:AB:206:ILE:HD13	20:AB:206:ILE:C	2.32	0.50
3:AD:11:SER:OG	3:AD:17:ASP:HA	2.11	0.50
22:BA:52:A:H3'	22:BA:53:A:C8	2.47	0.50
23:DB:2520:C:C6	23:DB:2567:G:H1'	2.46	0.50
23:DB:1330:C:H2'	23:DB:1331:G:H8	1.76	0.50
1:AA:143:A:H2	1:AA:220:G:H22	1.59	0.50
1:AA:219:U:H2'	1:AA:220:G:H8	1.77	0.50
23:DB:1771:C:H2'	23:DB:1772:A:C8	2.46	0.50
15:CP:74:LEU:O	15:CP:78:VAL:HG12	2.11	0.50
1:AA:130:A:O4'	16:AQ:64:ARG:HD2	2.12	0.50
18:CS:20:LYS:HD2	18:CS:20:LYS:O	2.12	0.50
34:DM:34:LYS:O	34:DM:125:PRO:HD2	2.12	0.50
23:DB:2630:G:H2'	23:DB:2631:G:H8	1.75	0.50
32:BK:16:ALA:N	32:BK:46:ALA:HA	2.27	0.50
23:DB:699:A:H4'	23:DB:1634:A:N7	2.27	0.50
23:DB:1184:U:O2'	23:DB:1185:G:H5'	2.12	0.50
43:BW:4:LYS:C	43:BW:4:LYS:HD3	2.32	0.50
23:DB:678:C:H2'	23:DB:679:C:H6	1.77	0.50
51:D4:2:LYS:HD3	51:D4:2:LYS:N	2.27	0.50
31:BJ:36:LEU:O	31:BJ:118:MET:HG2	2.12	0.50
31:BJ:18:VAL:HG22	31:BJ:56:VAL:HA	1.93	0.50
36:BO:17:LYS:O	36:BO:21:LEU:HA	2.12	0.50
30:BH:6:LEU:HD12	30:BH:15:LEU:CA	2.42	0.50
27:DE:164:LEU:HD13	27:DE:165:HIS:N	2.27	0.50
46:BZ:49:ARG:CD	46:BZ:50:ASP:N	2.75	0.50
34:BM:97:GLN:N	34:BM:98:PRO:CD	2.75	0.50
24:BV:80:HIS:CD2	24:BV:82:TYR:H	2.25	0.50
16:AQ:80:LYS:C	16:AQ:80:LYS:HE3	2.32	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DO:40:ILE:N	36:DO:40:ILE:HD13	2.16	0.50
40:BS:17:VAL:HA	40:BS:43:ALA:CB	2.42	0.50
8:AI:56:MET:CE	8:AI:57:VAL:H	2.25	0.50
23:BB:2305:U:H3	28:BF:150:GLY:HA3	1.76	0.50
31:DJ:78:THR:H	31:DJ:84:ILE:CD1	2.25	0.50
31:DJ:76:HIS:HB2	31:DJ:86:GLN:CG	2.41	0.50
27:BE:4:VAL:HB	27:BE:117:ARG:HH21	1.76	0.50
21:AU:5:VAL:HG22	21:AU:19:LYS:NZ	2.27	0.50
23:DB:1196:C:H2'	23:DB:1197:G:C8	2.46	0.50
18:CS:11:ASP:HB3	18:CS:13:HIS:NE2	2.27	0.50
41:BT:13:ALA:HB3	41:BT:33:LYS:HB2	1.92	0.50
21:AU:34:ARG:C	21:AU:34:ARG:HD2	2.31	0.50
21:CU:3:ILE:HD12	21:CU:3:ILE:O	2.11	0.50
27:BE:50:ALA:O	27:BE:74:LYS:HD2	2.12	0.50
44:DX:18:LEU:HD12	44:DX:47:ARG:HH22	1.77	0.50
23:DB:2682:A:O2'	23:DB:2683:C:H5'	2.11	0.50
1:CA:262:A:OP2	19:CT:70:LYS:HE3	2.12	0.50
15:CP:67:ILE:CG1	15:CP:71:VAL:HG13	2.37	0.50
14:AO:70:LYS:NZ	14:AO:74:VAL:HA	2.27	0.50
30:DH:114:GLU:CB	30:DH:133:GLN:HG3	2.37	0.50
1:CA:945:G:H21	1:CA:1334:G:H4'	1.77	0.50
29:DG:51:PHE:CE1	29:DG:53:PRO:HG3	2.45	0.50
33:DL:44:GLY:HA2	33:DL:47:ARG:NE	2.22	0.50
34:BM:112:LEU:N	34:BM:112:LEU:HD12	2.27	0.50
16:CQ:13:SER:HB3	16:CQ:21:VAL:CB	2.40	0.50
23:BB:2811:G:H5''	26:BD:62:LYS:HD2	1.93	0.50
23:BB:2087:G:H2'	23:BB:2088:A:H8	1.77	0.50
1:AA:1446:A:C3'	1:AA:1447:A:H5''	2.42	0.50
20:CB:134:LEU:O	20:CB:134:LEU:HD23	2.11	0.50
30:BH:56:ALA:HB3	30:BH:57:LYS:NZ	2.27	0.50
30:BH:57:LYS:CA	30:BH:57:LYS:HE3	2.42	0.50
15:AP:67:ILE:HG13	15:AP:71:VAL:HG13	1.93	0.50
23:DB:553:G:O2'	23:DB:554:U:H5'	2.11	0.50
33:DL:35:HIS:CG	33:DL:35:HIS:O	2.65	0.50
1:AA:193:C:H2'	1:AA:194:C:C6	2.47	0.50
19:AT:15:LYS:HA	19:AT:18:LYS:HE3	1.94	0.50
44:BX:5:GLU:N	44:BX:7:ARG:HE	2.08	0.50
1:CA:372:C:H4'	1:CA:373:A:H5'	1.94	0.50
23:DB:416:U:H2'	23:DB:417:C:C6	2.46	0.50
1:CA:1129:C:H1'	1:CA:1146:A:N6	2.25	0.50
27:DE:132:LYS:HG2	27:DE:134:LEU:CD1	2.41	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:189:G:P	46:BZ:12:ILE:HG12	2.52	0.50
23:BB:1399:C:H2'	23:BB:1400:U:C6	2.47	0.50
6:AG:72:VAL:HB	6:AG:144:ALA:HB3	1.94	0.50
23:DB:19:A:OP1	38:DQ:22:GLY:HA2	2.12	0.50
23:DB:217:A:H3'	23:DB:218:A:H8	1.75	0.50
1:CA:736:C:H2'	1:CA:737:C:H6	1.77	0.50
23:DB:2877:G:H2'	23:DB:2878:U:C6	2.47	0.50
23:BB:2877:G:H2'	23:BB:2878:U:C6	2.47	0.50
18:CS:16:LYS:O	18:CS:20:LYS:HB2	2.11	0.50
6:AG:136:LYS:O	6:AG:140:VAL:HG23	2.12	0.50
23:DB:2191:A:H2'	23:DB:2192:U:C6	2.47	0.50
40:BS:57:ASN:O	40:BS:61:ASN:HB3	2.12	0.50
23:BB:1107:G:H2'	23:BB:1108:U:O4'	2.11	0.50
39:DR:72:VAL:O	39:DR:72:VAL:HG13	2.11	0.50
30:DH:116:ARG:O	30:DH:116:ARG:HG2	2.12	0.50
27:DE:28:VAL:O	27:DE:32:VAL:HG23	2.12	0.50
1:AA:939:G:H4'	6:AG:101:ARG:NH2	2.26	0.50
42:BU:15:GLY:HA2	42:BU:18:LYS:HD3	1.92	0.49
20:CB:45:THR:HG23	20:CB:200:PRO:HG2	1.94	0.49
26:BD:8:LYS:HB3	37:BP:5:LYS:HZ2	1.74	0.49
25:BC:172:THR:HG22	25:BC:173:LEU:N	2.24	0.49
25:BC:182:LYS:HE2	25:BC:264:LYS:NZ	2.27	0.49
20:AB:46:VAL:O	20:AB:49:PHE:HB2	2.12	0.49
30:BH:48:GLU:C	30:BH:50:ARG:H	2.15	0.49
30:BH:5:LEU:HD21	30:BH:17:ASP:OD1	2.12	0.49
27:DE:193:VAL:HG12	27:DE:199:MET:H	1.76	0.49
23:BB:395:U:H2'	23:BB:396:G:C8	2.47	0.49
32:BK:23:LYS:O	32:BK:39:ILE:HG23	2.12	0.49
34:BM:38:ARG:HA	34:BM:96:ILE:O	2.11	0.49
16:AQ:10:ARG:NH2	16:AQ:58:VAL:HG13	2.27	0.49
16:AQ:66:LEU:HD11	16:AQ:73:THR:CG2	2.41	0.49
23:DB:1796:U:H2'	23:DB:1797:G:C8	2.46	0.49
38:BQ:90:ASP:HA	39:BR:10:LYS:HZ3	1.76	0.49
38:BQ:97:ILE:HD13	38:BQ:100:PHE:CZ	2.46	0.49
21:AU:26:GLY:O	21:AU:30:GLU:HB2	2.12	0.49
26:DD:193:VAL:HG23	26:DD:193:VAL:O	2.11	0.49
18:CS:10:ILE:HD13	18:CS:40:PHE:CE2	2.47	0.49
10:CK:85:VAL:HG11	10:CK:96:ILE:HD11	1.93	0.49
23:DB:2514:U:H2'	23:DB:2515:C:H6	1.77	0.49
48:D1:22:THR:HG21	50:D3:34:LYS:HZ1	1.77	0.49
44:DX:17:GLU:CD	44:DX:17:GLU:H	2.14	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1813:G:C1'	25:DC:45:ASN:HB3	2.41	0.49
25:BC:222:THR:HG23	25:BC:231:HIS:CD2	2.47	0.49
1:CA:1298:U:H2'	6:CG:113:LYS:NZ	2.27	0.49
28:DF:107:VAL:N	28:DF:108:PRO:HD2	2.26	0.49
1:AA:33:A:H2'	1:AA:34:C:H6	1.77	0.49
1:AA:1332:A:H2'	1:AA:1333:A:C8	2.47	0.49
23:BB:1054:A:H2'	23:BB:1055:G:C8	2.45	0.49
42:DU:10:VAL:O	42:DU:21:ARG:HA	2.12	0.49
1:AA:968:A:O2'	1:AA:969:A:OP1	2.27	0.49
23:BB:272:A:H2'	23:BB:273:G:C8	2.47	0.49
1:CA:1241:G:H2'	1:CA:1242:G:C8	2.42	0.49
49:D2:12:ARG:CG	49:D2:46:LYS:HA	2.42	0.49
47:B0:46:GLY:O	47:B0:52:LYS:HB3	2.12	0.49
29:DG:53:PRO:HG2	29:DG:61:TRP:HZ3	1.72	0.49
48:D1:9:LYS:HG2	48:D1:24:LYS:HG2	1.93	0.49
23:DB:1080:A:H4'	52:DI:126:ARG:HD3	1.93	0.49
1:CA:1070:U:H2'	1:CA:1071:C:C6	2.47	0.49
2:CC:61:LYS:NZ	2:CC:96:VAL:HG12	2.26	0.49
1:CA:429:U:P	3:CD:12:ARG:HH21	2.35	0.49
11:AL:20:VAL:HG12	11:AL:20:VAL:O	2.12	0.49
23:DB:1439:A:N7	23:DB:1440:U:C2	2.80	0.49
23:BB:932:U:H2'	23:BB:934:U:C4	2.46	0.49
27:DE:130:LYS:HZ3	27:DE:130:LYS:HB2	1.77	0.49
28:DF:41:GLU:O	28:DF:42:ALA:C	2.50	0.49
23:DB:351:C:H2'	23:DB:352:A:C8	2.46	0.49
20:CB:212:TYR:O	20:CB:216:VAL:HG22	2.11	0.49
23:DB:1533:C:C2'	23:DB:1534:U:H5'	2.42	0.49
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.48	0.49
23:BB:2526:G:H2'	23:BB:2527:C:C6	2.47	0.49
37:BP:38:ARG:NH1	37:BP:39:LEU:N	2.59	0.49
2:CC:149:LYS:HE3	2:CC:200:TRP:CE3	2.47	0.49
23:BB:708:G:H2'	23:BB:709:U:C6	2.47	0.49
23:DB:2106:U:H2'	23:DB:2107:G:OP1	2.12	0.49
28:DF:115:GLY:HA3	28:DF:177:ARG:HB2	1.94	0.49
6:CG:55:LYS:HB3	6:CG:59:GLU:OE2	2.12	0.49
1:CA:829:G:H4'	20:CB:24:PRO:HG3	1.94	0.49
17:AR:44:THR:HG22	17:AR:46:THR:HB	1.95	0.49
1:AA:1458:G:H2'	1:AA:1459:G:H8	1.77	0.49
1:CA:22:G:H2'	1:CA:23:C:C6	2.47	0.49
23:DB:1399:C:H2'	23:DB:1400:U:C6	2.47	0.49
10:CK:22:ILE:HG21	10:CK:95:THR:HG21	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2439:A:C8	23:DB:2586:U:H4'	2.47	0.49
26:BD:18:ASP:O	32:BK:73:ASP:HA	2.11	0.49
1:CA:1492:A:H2'	1:CA:1492:A:N3	2.26	0.49
23:DB:1501:G:O2'	23:DB:1502:A:H5'	2.11	0.49
35:DN:58:ASP:O	35:DN:62:ASN:HB2	2.10	0.49
29:BG:126:THR:HG23	29:BG:128:THR:HG23	1.93	0.49
14:CO:72:LYS:O	14:CO:73:ASP:HB2	2.11	0.49
1:CA:751:U:H2'	1:CA:752:G:O4'	2.12	0.49
28:BF:71:LYS:HD3	28:BF:71:LYS:C	2.32	0.49
33:BL:18:ARG:N	33:BL:18:ARG:HD3	2.27	0.49
32:DK:53:LYS:O	32:DK:56:ASP:HB2	2.12	0.49
1:CA:309:A:H2'	1:CA:310:G:H8	1.76	0.49
23:DB:1099:G:C5'	52:DI:4:VAL:HG12	2.42	0.49
37:BP:36:LYS:HD3	37:BP:37:LYS:H	1.76	0.49
26:BD:7:LYS:HD3	26:BD:197:THR:H	1.76	0.49
43:DW:42:THR:OG1	43:DW:65:LYS:HA	2.12	0.49
23:BB:773:U:H4'	25:BC:47:ARG:CB	2.41	0.49
35:DN:112:TYR:O	35:DN:113:ILE:HB	2.12	0.49
43:BW:47:GLY:N	43:BW:67:LYS:NZ	2.60	0.49
50:B3:24:LYS:HZ1	50:B3:29:ARG:HH12	1.59	0.49
33:BL:56:PRO:HA	33:BL:60:ARG:CZ	2.41	0.49
33:BL:82:LEU:C	33:BL:86:GLU:HG3	2.33	0.49
32:BK:33:ALA:HB3	32:BK:39:ILE:HD11	1.94	0.49
23:DB:2294:G:OP1	36:DO:9:ARG:HG3	2.12	0.49
23:BB:2026:U:H2'	23:BB:2027:G:H8	1.78	0.49
25:BC:30:ALA:H	25:BC:31:PRO:CD	2.12	0.49
38:BQ:112:ALA:HA	38:BQ:115:ALA:HB3	1.94	0.49
44:BX:23:ARG:HH21	44:BX:27:ASN:CG	2.15	0.49
10:AK:88:PRO:HA	10:AK:92:ARG:NE	2.27	0.49
33:DL:92:LEU:HA	33:DL:96:LYS:CG	2.41	0.49
23:BB:2514:U:H2'	23:BB:2515:C:H6	1.77	0.49
26:BD:126:ASN:O	26:BD:127:PHE:CB	2.50	0.49
26:DD:124:ARG:HB3	26:DD:124:ARG:HH11	1.77	0.49
50:D3:34:LYS:N	50:D3:34:LYS:HD2	2.26	0.49
20:AB:202:ASN:HD22	20:AB:204:ASP:N	1.99	0.49
23:DB:160:A:N6	23:DB:167:A:H1'	2.26	0.49
26:BD:84:LEU:O	26:BD:84:LEU:HG	2.12	0.49
39:DR:46:GLU:HG3	39:DR:51:VAL:HG21	1.95	0.49
43:BW:30:VAL:HG12	43:BW:31:LEU:N	2.27	0.49
5:AF:38:ARG:HH21	5:AF:96:VAL:HG12	1.77	0.49
1:CA:1285:A:O2'	1:CA:1286:U:H2'	2.12	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CK:86:LYS:HB2	10:CK:112:VAL:HG23	1.94	0.49
25:DC:220:ARG:NH1	25:DC:220:ARG:HA	2.27	0.49
29:BG:16:VAL:HG12	29:BG:17:LYS:N	2.27	0.49
29:BG:17:LYS:HB3	29:BG:24:THR:CG2	2.42	0.49
23:BB:2502:G:H5'	23:BB:2503:A:C5'	2.36	0.49
23:BB:1082:U:C4	23:BB:1086:A:N1	2.79	0.49
36:BO:87:ILE:HG22	36:BO:114:GLY:HA2	1.94	0.49
49:D2:12:ARG:HG2	49:D2:46:LYS:HA	1.94	0.49
35:BN:125:ALA:HA	47:B0:51:ARG:HH12	1.77	0.49
24:DV:76:ASP:H	24:DV:90:ASP:HB2	1.77	0.49
20:AB:41:ASN:ND2	20:AB:44:LYS:HE2	2.26	0.49
1:AA:399:G:H2'	1:AA:400:C:H6	1.77	0.49
2:AC:151:GLU:HB2	2:AC:200:TRP:HZ3	1.75	0.49
20:CB:130:LYS:HE2	20:CB:133:ALA:HB3	1.94	0.49
23:BB:2240:U:O2'	23:BB:2241:A:H5'	2.12	0.49
23:DB:1309:G:H4'	49:D2:7:PRO:CB	2.41	0.49
7:AH:49:LYS:HG3	7:AH:50:VAL:N	2.25	0.49
1:AA:189:A:H2'	1:AA:190:A:C8	2.47	0.49
23:DB:455:C:C4	23:DB:472:A:H2'	2.47	0.49
8:AI:23:GLY:O	8:AI:61:ASP:HB2	2.12	0.49
1:CA:189:A:H2'	1:CA:190:A:C8	2.47	0.49
41:BT:66:LYS:H	41:BT:77:ARG:HA	1.77	0.49
20:AB:111:LYS:O	20:AB:114:LYS:HB2	2.11	0.49
23:DB:2080:A:H2'	23:DB:2081:U:H6	1.76	0.49
9:CJ:37:ARG:C	9:CJ:37:ARG:NE	2.66	0.49
29:DG:84:LYS:O	29:DG:132:LEU:HG	2.12	0.49
33:BL:111:ILE:N	33:BL:111:ILE:HD13	2.26	0.49
12:CM:15:VAL:HG13	12:CM:40:GLU:CB	2.43	0.49
2:CC:52:SER:HA	2:CC:114:LEU:HG	1.95	0.49
12:CM:2:ARG:HB3	12:CM:6:ILE:H	1.77	0.49
23:DB:1747:U:H2'	23:DB:1748:C:C6	2.47	0.49
17:AR:46:THR:CG2	17:AR:51:GLN:HB2	2.42	0.49
23:DB:2240:U:O2'	23:DB:2241:A:H5'	2.11	0.49
23:BB:898:C:H2'	23:BB:899:A:C8	2.46	0.49
40:BS:86:MET:O	40:BS:94:ASP:HB3	2.12	0.49
23:BB:1051:G:H2'	23:BB:1052:C:C6	2.47	0.49
35:DN:14:SER:HA	35:DN:17:ARG:NH1	2.27	0.49
23:DB:1039:A:H2'	23:DB:1040:A:H8	1.75	0.49
1:CA:1121:U:H2'	1:CA:1122:U:C6	2.47	0.49
23:DB:572:A:H5''	23:DB:573:U:OP2	2.12	0.49
1:AA:1363:A:H2'	1:AA:1363:A:N3	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:98:LEU:HD12	7:AH:98:LEU:H	1.77	0.49
52:BI:96:LYS:N	52:BI:96:LYS:HD2	2.27	0.49
26:BD:25:THR:HB	37:BP:5:LYS:HZ3	1.77	0.49
31:BJ:103:ILE:O	31:BJ:103:ILE:HG22	2.12	0.49
31:BJ:56:VAL:HG12	31:BJ:57:LEU:H	1.77	0.49
31:BJ:72:LYS:O	31:BJ:74:TYR:N	2.46	0.49
23:DB:335:C:O2'	23:DB:336:C:H5'	2.12	0.49
27:DE:127:GLU:CA	27:DE:157:LEU:HD13	2.32	0.49
33:BL:123:ARG:HH22	33:BL:141:LYS:NZ	2.10	0.49
23:DB:398:C:OP1	46:DZ:49:ARG:NH1	2.45	0.49
23:BB:2484:G:HO2'	34:BM:45:GLN:CD	2.14	0.49
24:BV:26:PHE:CE2	24:BV:44:HIS:HA	2.47	0.49
39:BR:85:LYS:O	39:BR:85:LYS:HG3	2.12	0.49
35:DN:5:LYS:HA	35:DN:5:LYS:CE	2.34	0.49
23:BB:663:G:OP1	33:BL:27:LEU:HD11	2.12	0.49
42:DU:66:VAL:HG13	42:DU:67:SER:N	2.27	0.49
34:DM:71:LYS:O	34:DM:73:ILE:N	2.45	0.49
23:BB:1151:A:H2'	23:BB:1152:C:C6	2.47	0.49
1:CA:1343:G:H2'	1:CA:1344:C:H6	1.78	0.49
33:DL:108:ALA:HB1	33:DL:125:LEU:HD13	1.94	0.49
26:BD:17:GLU:HA	37:BP:80:VAL:HG21	1.95	0.49
41:BT:8:LEU:CB	44:BX:19:LEU:HD11	2.32	0.49
47:D0:12:ARG:NH2	47:D0:16:ARG:HG3	2.27	0.49
23:BB:2724:U:OP1	26:BD:116:LYS:HD2	2.12	0.49
26:BD:128:ARG:HH11	26:BD:144:GLY:HA2	1.77	0.49
13:CN:61:ASN:HB2	13:CN:72:PHE:CZ	2.47	0.49
40:DS:24:ILE:HG23	40:DS:35:ILE:HG21	1.93	0.49
26:DD:148:GLN:HB3	26:DD:151:THR:HG23	1.95	0.49
23:BB:2648:G:H2'	23:BB:2649:C:C6	2.47	0.49
23:DB:764:A:H5''	25:DC:208:GLY:CA	2.42	0.49
45:DY:23:LEU:HD13	45:DY:28:LEU:HD23	1.94	0.49
45:DY:43:ILE:HD11	45:DY:47:ILE:HD11	1.94	0.49
32:DK:99:ILE:HD12	32:DK:118:LEU:HD12	1.94	0.49
31:DJ:90:GLU:O	31:DJ:93:ILE:HG13	2.12	0.49
23:DB:1152:C:O2'	23:DB:1153:C:H5'	2.11	0.49
19:AT:66:ILE:HG23	19:AT:70:LYS:HD3	1.94	0.49
1:AA:947:G:H2'	1:AA:948:C:H6	1.76	0.49
52:DI:19:PRO:HB2	52:DI:22:PRO:HD2	1.93	0.49
16:CQ:13:SER:O	16:CQ:20:ILE:HG13	2.13	0.49
16:CQ:17:GLU:C	16:CQ:19:SER:H	2.15	0.49
16:CQ:56:ASP:HA	16:CQ:81:ALA:CA	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CM:95:PRO:HB2	12:CM:99:GLN:OE1	2.11	0.49
34:DM:20:LEU:HD22	34:DM:38:ARG:HG2	1.94	0.49
23:DB:1299:G:C4'	23:DB:1301:A:H1'	2.40	0.49
41:BT:69:ARG:N	41:BT:75:GLY:HA3	2.28	0.49
23:BB:2247:A:H2'	23:BB:2248:C:H6	1.77	0.49
23:BB:2249:U:H4'	23:BB:2275:C:C5	2.47	0.49
34:DM:119:LEU:HD22	34:DM:119:LEU:H	1.78	0.49
8:AI:62:LEU:N	8:AI:62:LEU:HD22	2.26	0.49
7:AH:17:GLN:HE21	7:AH:62:LEU:HG	1.76	0.49
39:BR:65:ALA:O	39:BR:66:HIS:HB2	2.12	0.49
23:DB:521:U:H2'	23:DB:522:A:H8	1.76	0.49
23:DB:2803:G:H2'	23:DB:2804:U:C6	2.47	0.49
23:BB:592:A:H2'	23:BB:593:U:C6	2.47	0.49
30:DH:54:LEU:O	30:DH:58:LEU:HD23	2.12	0.49
14:AO:27:GLN:O	14:AO:31:LEU:HD23	2.12	0.49
12:CM:79:LEU:HD22	12:CM:86:ARG:NE	2.27	0.49
23:DB:2244:U:H1'	23:DB:2434:A:C4	2.48	0.49
1:AA:123:U:H5''	1:AA:311:C:O2'	2.12	0.49
1:AA:314:C:O2'	1:AA:315:A:H5'	2.12	0.49
28:BF:18:GLU:O	28:BF:19:PHE:CB	2.59	0.49
20:AB:101:THR:HG23	20:AB:102:ASN:N	2.28	0.49
15:CP:22:ALA:HA	15:CP:33:ILE:HG13	1.95	0.49
1:AA:1018:G:H2'	1:AA:1019:A:C8	2.47	0.49
23:BB:1681:G:H2'	23:BB:1757:A:N1	2.27	0.49
52:DI:63:ASP:OD1	52:DI:65:SER:HB2	2.12	0.49
1:AA:114:U:H2'	1:AA:115:G:C8	2.47	0.49
28:BF:41:GLU:HG3	28:BF:49:LEU:HD12	1.94	0.49
15:CP:78:VAL:O	15:CP:78:VAL:HG13	2.12	0.49
23:BB:2412:A:H2'	23:BB:2413:G:O4'	2.11	0.49
23:BB:184:C:H2'	23:BB:185:G:C8	2.48	0.49
1:AA:1437:A:H2'	1:AA:1438:G:H8	1.77	0.49
1:CA:626:G:H2'	1:CA:627:G:C8	2.48	0.49
23:DB:1038:G:H2'	23:DB:1039:A:H8	1.76	0.49
23:DB:2776:A:H4'	23:DB:2777:G:O5'	2.13	0.49
23:DB:2876:G:H4'	37:DP:2:ASN:HB3	1.93	0.49
28:DF:125:GLY:O	28:DF:157:THR:HB	2.13	0.49
2:AC:122:GLN:O	2:AC:127:VAL:HG22	2.12	0.49
34:BM:89:VAL:HG22	34:BM:89:VAL:O	2.12	0.49
2:CC:88:LYS:O	2:CC:88:LYS:HE3	2.13	0.49
4:AE:73:VAL:HG12	4:AE:74:ALA:N	2.27	0.49
1:CA:1229:A:H2'	1:CA:1230:C:C6	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:49:LEU:HB2	6:AG:57:GLU:HG3	1.94	0.49
1:CA:418:C:H2'	1:CA:419:C:H6	1.78	0.49
23:BB:38:A:H1'	27:BE:44:ARG:HA	1.93	0.49
23:DB:2743:U:H2'	23:DB:2744:G:C5'	2.40	0.49
23:DB:2425:A:O2'	23:DB:2426:A:OP2	2.28	0.49
25:DC:37:SER:HB2	25:DC:62:ARG:HG3	1.94	0.49
23:DB:536:G:C5'	38:DQ:52:ARG:NH2	2.75	0.49
18:AS:35:ARG:HG2	18:AS:50:VAL:HG13	1.94	0.49
23:BB:650:C:O3'	50:B3:16:THR:HB	2.12	0.49
46:BZ:5:ILE:HG23	46:BZ:63:ARG:NE	2.27	0.49
38:BQ:27:ARG:N	38:BQ:32:ARG:HH21	2.11	0.49
41:DT:67:VAL:HG12	41:DT:68:LYS:N	2.26	0.49
23:BB:2528:U:O2'	23:BB:2529:G:H3'	2.13	0.49
22:BA:74:U:H2'	22:BA:75:G:O4'	2.12	0.49
8:AI:32:ARG:HD3	8:AI:37:TYR:HD1	1.75	0.49
34:DM:5:LYS:HG2	34:DM:68:PHE:HE1	1.78	0.49
47:B0:29:VAL:HG13	47:B0:30:ASP:N	2.26	0.49
40:BS:29:VAL:HG21	40:BS:69:LEU:C	2.33	0.49
23:DB:1199:U:O2'	38:DQ:2:ARG:CB	2.60	0.49
23:DB:2393:U:H4'	33:DL:60:ARG:O	2.12	0.49
33:DL:62:PRO:HG3	50:D3:12:ARG:CZ	2.43	0.49
44:DX:18:LEU:O	44:DX:22:LEU:HB2	2.13	0.49
44:DX:22:LEU:HB3	44:DX:25:GLN:OE1	2.12	0.49
26:BD:4:LEU:HD23	26:BD:4:LEU:H	1.77	0.49
52:BI:116:MET:SD	52:BI:124:MET:HB2	2.52	0.49
23:DB:2314:A:H2'	23:DB:2315:G:H8	1.77	0.49
39:DR:37:GLU:HG2	39:DR:62:GLU:C	2.33	0.49
5:AF:39:LEU:HD13	5:AF:40:GLU:H	1.77	0.49
1:AA:662:U:O2'	1:AA:836:G:H5''	2.12	0.49
14:CO:25:GLU:OE2	14:CO:76:ARG:HD3	2.12	0.49
1:CA:8:A:C5	3:CD:205:LYS:HA	2.47	0.49
39:DR:69:GLY:HA2	39:DR:96:VAL:HG13	1.94	0.49
38:BQ:77:LYS:HB3	38:BQ:116:LEU:HD11	1.93	0.49
1:CA:1237:C:OP1	1:CA:1238:A:H1'	2.11	0.49
48:D1:34:GLU:HG2	48:D1:50:GLU:OE1	2.11	0.49
5:CF:85:ILE:HG22	5:CF:86:ARG:N	2.27	0.49
4:CE:114:LEU:HD13	4:CE:122:VAL:HG21	1.94	0.49
33:DL:18:ARG:NH1	33:DL:21:ARG:HD3	2.26	0.49
7:CH:10:LEU:HD11	7:CH:126:CYS:SG	2.52	0.49
1:AA:576:C:OP2	1:AA:576:C:H3'	2.12	0.49
16:CQ:58:VAL:HB	16:CQ:74:LEU:HD23	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1169:A:O2'	23:BB:1170:C:H5'	2.12	0.49
23:DB:244:A:H2'	23:DB:245:G:O4'	2.12	0.49
25:BC:209:ALA:HA	25:BC:213:ARG:CZ	2.43	0.49
1:AA:1048:G:H4'	13:AN:2:LYS:HZ1	1.76	0.49
22:DA:63:C:H2'	22:DA:64:G:H8	1.77	0.49
29:DG:17:LYS:O	29:DG:17:LYS:HE3	2.12	0.49
23:DB:2860:A:H2'	23:DB:2861:U:O4'	2.12	0.49
23:DB:592:A:H2'	23:DB:593:U:C6	2.47	0.49
15:AP:29:ASN:HD22	15:AP:29:ASN:N	2.11	0.49
12:CM:80:MET:HA	12:CM:87:GLY:HA3	1.94	0.49
1:AA:205:A:H2'	1:AA:206:C:C6	2.44	0.49
1:CA:712:A:O2'	1:CA:713:G:H5'	2.12	0.49
23:BB:2590:A:H2'	23:BB:2591:C:H6	1.76	0.49
4:CE:81:GLN:NE2	4:CE:148:SER:HA	2.26	0.49
20:CB:67:LEU:HD22	20:CB:157:PRO:HG3	1.94	0.49
1:CA:1526:G:O5'	21:CU:38:GLU:HB2	2.12	0.49
1:CA:1243:C:H2'	1:CA:1244:G:C8	2.48	0.49
7:AH:39:LEU:HB2	7:AH:45:ILE:CD1	2.43	0.49
5:CF:18:VAL:O	5:CF:22:ILE:HG13	2.13	0.49
27:DE:191:ASP:HA	27:DE:194:LYS:NZ	2.27	0.49
23:BB:1684:G:H2'	23:BB:1685:C:H6	1.77	0.49
1:CA:1031:C:H5'	1:CA:1032:G:N9	2.28	0.49
23:BB:836:G:H2'	23:BB:837:C:H6	1.77	0.49
1:CA:272:C:H2'	1:CA:273:U:C6	2.47	0.49
23:DB:2654:A:N1	23:DB:2665:A:H5''	2.27	0.49
1:AA:366:A:O2'	1:AA:367:U:P	2.70	0.49
31:BJ:15:TRP:HB3	31:BJ:53:TYR:CD2	2.48	0.49
2:AC:143:LEU:HD22	2:AC:143:LEU:H	1.76	0.49
23:DB:2047:C:O2'	23:DB:2048:G:H5'	2.12	0.49
1:AA:317:U:H2'	1:AA:318:G:C8	2.47	0.49
1:CA:1121:U:O2'	1:CA:1122:U:H5'	2.13	0.49
1:AA:182:A:H1'	1:AA:183:C:C5	2.48	0.49
41:BT:16:VAL:HG22	41:BT:16:VAL:O	2.13	0.49
23:DB:41:C:O2'	23:DB:42:A:H5'	2.13	0.49
23:DB:587:C:H4'	23:DB:588:U:C6	2.48	0.49
27:DE:46:GLN:HG3	27:DE:49:ARG:NH2	2.28	0.49
48:D1:29:LYS:CB	48:D1:30:PRO:HD3	2.17	0.49
43:DW:42:THR:HG22	43:DW:67:LYS:O	2.13	0.49
25:BC:66:PHE:HE2	25:BC:104:LEU:HD21	1.77	0.49
25:DC:86:ARG:HG3	25:DC:86:ARG:O	2.12	0.49
31:BJ:17:VAL:HG22	31:BJ:55:ILE:CG2	2.42	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:43:LYS:HG2	43:BW:76:ARG:NE	2.25	0.49
1:AA:1221:G:O3'	18:AS:76:THR:HG21	2.12	0.49
27:BE:154:ASP:OD1	27:BE:156:ASN:HB2	2.13	0.49
34:BM:62:LYS:CB	34:BM:104:GLU:HB2	2.42	0.49
34:BM:67:VAL:HG21	34:BM:95:LEU:HD11	1.94	0.49
23:DB:1135:C:N4	23:DB:1139:G:C6	2.81	0.49
23:DB:2377:A:C2	36:DO:92:PHE:HE1	2.30	0.49
41:DT:92:ASN:C	41:DT:93:LEU:HD12	2.32	0.49
51:D4:3:VAL:CG1	51:D4:4:ARG:H	2.13	0.49
12:AM:53:ASP:HA	12:AM:56:ARG:HD2	1.93	0.49
3:CD:106:PHE:HD1	3:CD:158:LEU:HD21	1.78	0.49
3:CD:96:ARG:O	3:CD:99:ASN:HB3	2.12	0.49
10:AK:85:VAL:O	10:AK:111:ASP:HA	2.12	0.49
30:DH:125:THR:HA	30:DH:146:VAL:CB	2.32	0.49
33:DL:77:ILE:CG2	33:DL:92:LEU:HG	2.42	0.49
44:BX:19:LEU:HD12	44:BX:19:LEU:H	1.77	0.49
47:D0:11:LYS:O	47:D0:15:ARG:HB2	2.13	0.49
23:BB:2000:C:OP1	35:BN:2:ARG:NE	2.45	0.49
32:DK:64:ARG:O	32:DK:65:THR:HG23	2.13	0.49
12:CM:22:TYR:HB3	12:CM:69:ARG:NH2	2.27	0.49
4:CE:88:HIS:CE1	4:CE:137:ARG:HG2	2.48	0.49
10:CK:112:VAL:HA	17:CR:72:ARG:HD3	1.94	0.49
42:BU:3:LYS:HZ3	42:BU:3:LYS:HB2	1.72	0.49
14:AO:66:LEU:HB3	14:AO:77:TYR:HE1	1.77	0.49
26:BD:157:LYS:HE2	26:BD:157:LYS:HA	1.94	0.49
28:DF:40:GLY:H	28:DF:84:ILE:CG2	2.26	0.49
36:BO:8:ILE:CG2	36:BO:9:ARG:N	2.75	0.49
1:CA:1238:A:H2	1:CA:1241:G:N3	2.10	0.49
23:BB:2831:G:O4'	23:BB:2883:A:C2	2.65	0.49
43:BW:16:GLU:HG3	43:BW:37:VAL:HG22	1.93	0.49
4:AE:87:VAL:CG1	4:AE:92:ARG:HD3	2.42	0.49
1:CA:33:A:H2'	1:CA:34:C:H6	1.77	0.49
23:DB:2528:U:O2'	23:DB:2529:G:H3'	2.13	0.49
25:BC:204:LEU:CD1	25:BC:211:ARG:HH11	2.25	0.49
23:BB:2249:U:H4'	23:BB:2275:C:H5	1.76	0.49
23:BB:2314:A:H2'	23:BB:2315:G:C8	2.47	0.49
28:BF:90:LEU:O	28:BF:95:MET:HG3	2.12	0.49
23:DB:15:G:O2'	23:DB:16:C:H5'	2.13	0.49
20:AB:119:GLN:HE22	20:AB:127:LYS:HD3	1.77	0.49
5:CF:42:TRP:NE1	5:CF:61:LEU:HD23	2.27	0.49
12:CM:78:ARG:HG3	28:DF:111:ARG:NH1	2.26	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1054:C:H1'	1:CA:1196:A:C5	2.48	0.49
1:AA:997:U:H2'	1:AA:998:C:C6	2.46	0.49
23:DB:827:U:H5'	23:DB:828:U:O5'	2.12	0.49
25:BC:12:ARG:HB3	25:BC:18:VAL:HB	1.94	0.49
1:CA:1162:C:H2'	1:CA:1163:A:C8	2.47	0.49
1:CA:1163:A:H2'	1:CA:1164:G:C8	2.46	0.49
14:AO:68:TYR:CE1	14:AO:72:LYS:HE3	2.47	0.49
23:BB:2082:A:O2'	23:BB:2083:G:H5'	2.13	0.49
23:DB:21:A:H2'	23:DB:22:C:C6	2.48	0.49
1:CA:219:U:H2'	1:CA:220:G:H8	1.77	0.49
23:DB:721:A:H2'	23:DB:722:A:C8	2.48	0.49
29:BG:6:ALA:HB3	29:BG:7:PRO:HD3	1.93	0.49
23:BB:1255:U:O2'	27:BE:67:ARG:HB3	2.12	0.49
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.12	0.49
23:BB:69:C:H2'	23:BB:70:G:C8	2.47	0.49
9:CJ:102:LEU:N	9:CJ:102:LEU:HD22	2.27	0.49
23:DB:378:C:O2'	23:DB:379:G:H5'	2.12	0.49
23:BB:1501:G:O2'	23:BB:1502:A:H5'	2.12	0.49
30:BH:80:ILE:HD12	30:BH:102:ALA:CB	2.43	0.49
23:DB:2386:A:H4'	43:DW:38:ARG:HD3	1.94	0.49
35:DN:35:LYS:HD3	35:DN:112:TYR:CE1	2.47	0.49
25:DC:143:VAL:O	25:DC:152:GLN:HB2	2.13	0.49
23:DB:323:C:O2'	27:DE:163:ASN:C	2.50	0.49
27:DE:169:VAL:HG22	27:DE:170:ARG:N	2.28	0.49
33:BL:57:LEU:C	33:BL:59:ARG:H	2.13	0.49
33:BL:60:ARG:C	50:B3:11:LYS:HZ3	2.16	0.49
24:DV:70:ILE:CD1	24:DV:71:LYS:H	2.23	0.49
16:AQ:19:SER:O	16:AQ:20:ILE:HG23	2.12	0.49
46:DZ:59:ARG:HA	46:DZ:62:LYS:HB2	1.94	0.49
22:DA:116:G:H4'	36:DO:54:VAL:CG2	2.42	0.49
23:BB:1190:G:OP1	33:BL:41:ARG:CZ	2.60	0.49
26:BD:170:VAL:HG11	26:BD:194:PRO:HB2	1.94	0.49
18:CS:43:MET:C	18:CS:46:LEU:HD23	2.32	0.49
38:BQ:63:ARG:CB	38:BQ:63:ARG:HH11	2.26	0.49
33:DL:108:ALA:O	33:DL:109:LYS:CB	2.61	0.49
23:BB:139:U:H5''	23:BB:140:C:C4	2.47	0.49
23:BB:142:A:H1'	41:BT:2:ILE:HG21	1.93	0.49
44:BX:18:LEU:HD12	44:BX:19:LEU:HD12	1.94	0.49
44:BX:22:LEU:HD22	44:BX:26:PHE:N	2.23	0.49
44:BX:46:VAL:HG13	44:BX:47:ARG:N	2.28	0.49
23:DB:2648:G:H2'	23:DB:2649:C:C6	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:83:ARG:HG2	26:BD:84:LEU:N	2.27	0.49
1:AA:1492:A:H2'	1:AA:1493:A:O4'	2.12	0.49
38:DQ:89:ILE:HG22	38:DQ:90:ASP:N	2.26	0.49
1:CA:662:U:O2'	1:CA:836:G:H5''	2.12	0.49
20:AB:173:LYS:HD3	20:AB:173:LYS:C	2.32	0.49
23:DB:1082:U:H2'	23:DB:1083:U:O4'	2.12	0.49
1:AA:35:G:H2'	1:AA:36:C:H6	1.78	0.49
42:DU:10:VAL:HB	42:DU:68:ASN:ND2	2.27	0.49
23:DB:465:G:H4'	49:D2:12:ARG:NH2	2.27	0.49
23:DB:365:U:H2'	23:DB:366:C:O4'	2.12	0.49
25:BC:70:LYS:HG2	25:BC:73:ILE:HD13	1.94	0.49
9:CJ:87:LEU:N	9:CJ:87:LEU:HD22	2.27	0.49
29:BG:40:VAL:CB	29:BG:63:GLN:HE22	2.25	0.49
3:CD:130:ASN:HD22	3:CD:130:ASN:N	2.06	0.49
23:BB:1727:C:H2'	23:BB:1728:C:H6	1.74	0.49
10:AK:69:CYS:O	10:AK:73:VAL:HG23	2.12	0.49
8:AI:24:ASN:O	8:AI:61:ASP:HA	2.12	0.49
44:BX:30:MET:CG	44:BX:31:GLN:H	2.24	0.49
1:CA:693:G:H2'	1:CA:694:A:O4'	2.12	0.49
23:DB:2590:A:H2'	23:DB:2591:C:H6	1.76	0.49
23:DB:303:G:H2'	23:DB:304:U:C6	2.47	0.49
28:BF:21:TYR:OH	28:BF:28:PRO:HD3	2.13	0.49
23:BB:2287:A:H4'	23:BB:2287:A:OP1	2.10	0.49
46:BZ:59:ARG:HB2	46:BZ:61:ASN:H	1.78	0.49
1:AA:382:A:H2'	1:AA:383:A:C8	2.48	0.49
23:DB:1256:G:H1'	27:DE:77:ILE:HD11	1.95	0.49
23:BB:1562:U:H2'	23:BB:1563:U:C6	2.47	0.49
23:DB:1909:C:H2'	23:DB:1910:G:H8	1.77	0.49
2:CC:64:ARG:HA	2:CC:99:GLN:HB2	1.93	0.49
1:AA:301:G:H2'	1:AA:302:G:C8	2.48	0.49
23:BB:1948:G:O2'	23:BB:1949:G:H5'	2.12	0.49
11:AL:34:THR:HG21	11:AL:53:ARG:CZ	2.43	0.49
28:BF:41:GLU:OE2	28:BF:48:LEU:HB3	2.13	0.49
1:CA:1228:C:OP1	12:CM:112:ARG:HA	2.13	0.49
23:BB:1292:G:H2'	23:BB:1293:C:C6	2.48	0.49
23:DB:1292:G:H2'	23:DB:1293:C:C6	2.48	0.49
23:DB:185:G:H4'	23:DB:218:A:H4'	1.94	0.49
1:CA:366:A:O2'	1:CA:367:U:P	2.70	0.49
1:CA:147:G:H2'	1:CA:148:G:C8	2.48	0.49
23:DB:2717:C:O2'	37:DP:95:LYS:HE3	2.13	0.49
26:BD:15:PHE:CD2	26:BD:18:ASP:HB2	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DT:26:LYS:O	41:DT:27:SER:HB3	2.13	0.49
30:DH:81:ALA:HA	30:DH:147:VAL:O	2.12	0.49
52:DI:7:TYR:HA	52:DI:59:THR:HA	1.95	0.49
23:DB:1214:A:H2'	23:DB:1215:G:O4'	2.12	0.49
34:DM:11:LYS:O	34:DM:12:MET:HB2	2.13	0.49
27:DE:20:GLY:HA2	27:DE:106:LYS:HD2	1.95	0.49
23:DB:1881:C:H2'	23:DB:1882:U:O4'	2.12	0.49
39:DR:11:GLN:C	39:DR:21:ARG:HH22	2.14	0.49
23:DB:2093:G:OP2	30:DH:23:ALA:HB3	2.12	0.49
10:CK:31:VAL:HG21	10:CK:66:ALA:HA	1.94	0.49
37:BP:13:LYS:HA	37:BP:15:ASP:OD1	2.13	0.49
35:BN:102:PHE:CD2	35:BN:102:PHE:N	2.80	0.49
23:DB:2518:A:N3	23:DB:2518:A:H2'	2.26	0.49
23:DB:1995:U:H1'	32:DK:3:GLN:HE22	1.78	0.49
23:BB:1322:A:C2'	23:BB:1323:C:H5'	2.43	0.49
23:BB:1881:C:H2'	23:BB:1882:U:O4'	2.13	0.49
34:DM:42:THR:HG22	34:DM:45:GLN:NE2	2.27	0.49
1:AA:724:G:O2'	1:AA:725:G:H5'	2.11	0.49
37:DP:79:VAL:O	37:DP:81:ASP:N	2.46	0.49
30:BH:89:LYS:HZ3	30:BH:90:LEU:H	1.61	0.49
37:BP:23:ASP:O	37:BP:25:VAL:N	2.46	0.49
25:DC:163:ILE:O	25:DC:164:VAL:HG13	2.13	0.49
25:DC:169:ALA:O	25:DC:170:TYR:HB2	2.13	0.49
31:DJ:58:ASN:C	31:DJ:60:ASP:H	2.16	0.49
31:BJ:128:ASN:ND2	31:BJ:129:GLU:H	2.11	0.49
20:AB:57:ASN:HB2	20:AB:219:THR:HB	1.95	0.49
27:DE:115:GLN:OE1	27:DE:184:ASP:HB2	2.13	0.49
23:DB:778:G:H5''	25:DC:48:ILE:HG21	1.95	0.49
23:BB:25:U:OP1	40:BS:8:ARG:NH2	2.45	0.49
23:BB:991:C:H2'	23:BB:992:C:C6	2.47	0.49
31:DJ:7:LYS:HE3	31:DJ:47:HIS:HD2	1.76	0.49
1:CA:1320:C:H41	18:CS:36:ARG:CD	2.25	0.49
35:BN:34:ILE:HD13	35:BN:34:ILE:H	1.76	0.49
39:BR:69:GLY:HA2	39:BR:96:VAL:HA	1.94	0.49
23:BB:1205:A:O2'	27:BE:164:LEU:HD21	2.13	0.49
21:AU:20:ARG:O	21:AU:20:ARG:HG2	2.13	0.49
26:DD:205:PRO:HG2	26:DD:206:ALA:H	1.77	0.49
30:DH:82:SER:C	30:DH:83:LYS:HD2	2.33	0.49
30:DH:86:ASP:C	30:DH:88:GLY:H	2.16	0.49
26:BD:130:GLN:HE21	26:BD:138:LEU:HD12	1.71	0.49
23:DB:1259:G:H2'	23:DB:1260:A:C8	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2734:A:C2'	23:DB:2735:G:H5'	2.43	0.49
23:BB:2786:U:C4'	26:BD:66:GLY:HA2	2.43	0.49
26:BD:34:VAL:CA	26:BD:89:GLU:HB2	2.34	0.49
26:DD:17:GLU:CG	37:DP:80:VAL:HB	2.42	0.49
32:DK:63:VAL:HG11	32:DK:103:VAL:HG12	1.95	0.49
42:DU:8:ASP:O	42:DU:10:VAL:HG13	2.13	0.49
2:AC:11:LEU:HD13	2:AC:17:TRP:HE1	1.76	0.49
52:DI:108:ILE:CG2	52:DI:128:ILE:HD13	2.43	0.49
48:D1:7:LYS:HG2	48:D1:26:LYS:HB3	1.94	0.49
5:CF:84:VAL:HG22	5:CF:85:ILE:N	2.28	0.49
52:BI:17:ALA:O	52:BI:18:ASN:HB3	2.12	0.49
12:CM:102:LYS:HZ2	12:CM:102:LYS:HB2	1.77	0.49
23:DB:2230:G:H5''	46:DZ:28:VAL:HG21	1.94	0.49
23:BB:2840:C:H2'	23:BB:2841:C:C6	2.48	0.49
23:BB:1853:A:N1	23:BB:2087:G:H1'	2.27	0.49
16:CQ:46:HIS:CG	16:CQ:47:ASP:N	2.81	0.49
1:CA:1324:A:H2'	1:CA:1325:C:C6	2.48	0.49
40:DS:2:GLU:CB	40:DS:108:SER:HA	2.41	0.49
29:DG:79:THR:HG23	29:DG:80:GLU:H	1.78	0.49
20:AB:139:GLU:HG2	20:AB:143:LEU:CD1	2.42	0.49
23:BB:600:G:H1'	27:BE:100:MET:HG3	1.95	0.49
43:DW:10:ARG:HH11	43:DW:10:ARG:HA	1.77	0.49
23:DB:1684:G:H2'	23:DB:1685:C:H6	1.77	0.49
20:AB:132:GLU:HG3	20:AB:136:ARG:HD2	1.94	0.49
23:BB:1685:C:H2'	23:BB:1686:C:H6	1.78	0.49
23:BB:209:C:O2'	23:BB:210:C:H5'	2.12	0.49
23:DB:345:A:H1'	23:DB:346:A:H2	1.77	0.49
23:BB:2654:A:N1	23:BB:2665:A:H5''	2.27	0.49
8:AI:96:GLU:O	8:AI:99:LYS:HB3	2.12	0.49
23:DB:845:A:C2	23:DB:847:U:H1'	2.47	0.49
2:AC:110:LEU:HB3	2:AC:203:LYS:HZ3	1.77	0.49
1:CA:317:U:H2'	1:CA:318:G:C8	2.47	0.49
25:DC:231:HIS:CE1	25:DC:242:HIS:HD1	2.31	0.49
1:AA:693:G:H2'	1:AA:694:A:O4'	2.12	0.49
10:CK:31:VAL:HG21	10:CK:66:ALA:CA	2.42	0.49
30:BH:67:ALA:O	30:BH:71:LYS:HG3	2.13	0.49
1:AA:853:C:O2'	1:AA:854:U:H5'	2.12	0.49
52:BI:63:ASP:C	52:BI:65:SER:H	2.15	0.49
4:CE:85:LYS:HE3	4:CE:94:PHE:HB2	1.95	0.49
29:BG:139:VAL:O	29:BG:143:VAL:HG23	2.13	0.49
23:DB:383:C:N4	23:DB:385:C:H2'	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:966:G:H2'	1:CA:967:C:C6	2.47	0.49
23:DB:1098:A:O2'	52:DI:4:VAL:C	2.50	0.49
20:CB:14:HIS:CG	20:CB:15:PHE:N	2.80	0.49
23:DB:2740:A:H2'	23:DB:2741:A:C8	2.47	0.49
23:BB:1821:A:H2'	23:BB:1822:C:H6	1.76	0.49
31:BJ:118:MET:O	31:BJ:121:LYS:HB2	2.13	0.49
43:BW:24:ARG:HA	43:BW:57:THR:HG23	1.93	0.49
50:B3:12:ARG:CB	50:B3:23:HIS:HA	2.34	0.49
23:BB:638:G:H2'	23:BB:639:U:C6	2.48	0.49
23:BB:2080:A:H2'	23:BB:2081:U:C6	2.48	0.49
16:AQ:10:ARG:NH1	16:AQ:11:VAL:HB	2.28	0.49
16:AQ:20:ILE:CG1	16:AQ:45:VAL:HB	2.37	0.49
20:AB:67:LEU:HA	20:AB:89:PHE:O	2.11	0.49
23:BB:1568:G:C5'	25:BC:60:ALA:HB3	2.42	0.49
39:BR:40:MET:CA	39:BR:54:VAL:HG11	2.43	0.49
9:AJ:53:ILE:HB	9:AJ:61:ALA:HB1	1.94	0.49
23:BB:2336:A:C1'	23:BB:2337:G:OP1	2.56	0.49
27:BE:152:GLU:O	27:BE:153:LEU:HB2	2.12	0.49
51:B4:23:ILE:HD12	51:B4:35:GLN:HG2	1.95	0.49
26:DD:4:LEU:HD11	26:DD:79:LEU:HD22	1.93	0.49
1:CA:1014:A:H2	1:CA:1219:A:H1'	1.76	0.49
23:DB:1266:G:OP1	47:D0:15:ARG:NH2	2.45	0.49
26:BD:117:GLY:O	26:BD:165:MET:HB3	2.13	0.49
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.47	0.49
28:BF:165:GLY:O	28:BF:167:ALA:N	2.44	0.49
26:BD:29:VAL:O	26:BD:51:THR:HG21	2.13	0.49
1:CA:1312:G:H2'	1:CA:1313:U:C6	2.48	0.49
45:DY:2:LYS:CE	45:DY:27:GLY:H	2.26	0.49
32:DK:70:ARG:HD3	32:DK:76:VAL:CG2	2.36	0.49
31:DJ:64:VAL:CG1	31:DJ:65:THR:H	2.19	0.49
5:AF:1:MET:SD	5:AF:67:PRO:HD3	2.53	0.49
19:CT:68:LYS:CA	19:CT:68:LYS:HE2	2.37	0.49
1:CA:376:G:C4'	15:CP:5:ARG:HD3	2.42	0.49
39:DR:68:ARG:HB3	39:DR:70:GLU:HG2	1.93	0.49
29:DG:156:TYR:HA	29:DG:171:LYS:CG	2.43	0.49
25:BC:70:LYS:HG2	25:BC:71:ASP:N	2.28	0.49
11:CL:88:ASP:C	11:CL:89:LEU:HD22	2.32	0.49
1:CA:1281:C:H5'	1:CA:1282:C:C5	2.43	0.49
20:CB:26:MET:HG3	20:CB:188:THR:O	2.13	0.49
4:CE:95:MET:CE	4:CE:143:LEU:HD13	2.43	0.49
23:DB:2896:C:H2'	23:DB:2897:U:C6	2.47	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1383:A:H2	23:DB:1405:U:O2	1.96	0.49
7:CH:38:VAL:HG23	7:CH:111:THR:HG22	1.94	0.49
4:AE:104:ILE:O	4:AE:104:ILE:HG23	2.13	0.49
4:AE:45:VAL:CG1	4:AE:116:VAL:HG23	2.43	0.49
4:AE:45:VAL:HG13	4:AE:117:ALA:HA	1.95	0.49
39:BR:97:LYS:O	39:BR:98:ILE:HB	2.13	0.49
18:CS:62:THR:HG22	18:CS:65:MET:CE	2.43	0.49
23:DB:2278:A:H62	43:DW:10:ARG:CB	2.26	0.49
23:BB:1533:C:C2'	23:BB:1534:U:H5'	2.42	0.49
23:BB:2133:G:N3	23:BB:2133:G:C2'	2.73	0.49
13:AN:24:ALA:HB1	13:AN:27:LYS:HZ1	1.78	0.49
23:BB:673:C:H5''	27:BE:76:PRO:HD2	1.94	0.49
1:AA:975:A:H4'	1:AA:976:G:OP2	2.13	0.49
1:CA:1522:U:O2'	1:CA:1523:G:H5'	2.13	0.49
23:DB:281:C:O2	23:DB:281:C:H2'	2.11	0.49
16:CQ:12:VAL:HG11	16:CQ:42:LYS:NZ	2.27	0.49
23:BB:354:A:C2'	23:BB:355:U:H5''	2.42	0.49
28:BF:2:LYS:HA	28:BF:2:LYS:HE2	1.92	0.49
16:AQ:60:ILE:HB	16:AQ:72:TRP:HE3	1.78	0.49
1:AA:218:U:H2'	1:AA:219:U:H6	1.78	0.49
23:DB:1315:C:H2'	23:DB:1316:U:H6	1.77	0.49
1:AA:272:C:H2'	1:AA:273:U:C6	2.48	0.49
23:DB:1904:G:H1'	23:DB:1927:A:N1	2.28	0.49
43:DW:4:LYS:HB2	43:DW:4:LYS:HZ3	1.78	0.49
1:AA:846:G:H2'	1:AA:846:G:N3	2.27	0.49
23:DB:2034:U:H5''	55:DB:3318:HOH:O	2.13	0.49
1:AA:692:U:H2'	1:AA:694:A:OP2	2.13	0.49
1:AA:627:G:H2'	1:AA:628:G:H8	1.78	0.49
20:AB:27:LYS:H	20:AB:28:PRO:CD	2.25	0.49
1:CA:708:C:H2'	1:CA:709:U:C6	2.48	0.49
1:AA:157:U:O2'	1:AA:158:G:H5'	2.13	0.49
4:AE:67:ARG:O	4:AE:70:MET:HG3	2.13	0.49
23:DB:2468:A:H2'	23:DB:2476:A:C6	2.48	0.49
31:DJ:28:LEU:C	31:DJ:28:LEU:HD13	2.32	0.49
10:CK:18:GLY:HA2	10:CK:35:ASP:HA	1.95	0.49
23:BB:2500:U:H5'	23:BB:2501:C:OP2	2.12	0.49
23:BB:1581:G:O2'	23:BB:1582:C:H5'	2.13	0.49
23:BB:1869:G:HO2'	23:BB:1871:A:H62	1.60	0.49
23:DB:2869:G:H2'	23:DB:2870:C:H6	1.75	0.49
23:DB:452:G:N2	23:DB:457:A:O2'	2.46	0.49
23:DB:2809:A:H2'	23:DB:2810:A:H8	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:318:C:O2'	23:DB:319:G:H5'	2.12	0.49
15:AP:43:ALA:O	15:AP:46:LYS:HD3	2.12	0.49
23:BB:967:U:H2'	23:BB:968:C:H6	1.73	0.49
34:BM:71:LYS:HD3	34:BM:92:TRP:O	2.12	0.49
25:BC:212:TRP:CZ3	25:BC:217:PRO:HD3	2.48	0.49
31:DJ:54:ILE:HG22	31:DJ:55:ILE:N	2.27	0.49
28:BF:55:ASP:OD1	28:BF:148:VAL:HG11	2.13	0.49
23:BB:1206:G:H2'	23:BB:1207:C:H6	1.78	0.49
23:DB:638:G:H2'	23:DB:639:U:C6	2.48	0.49
35:BN:2:ARG:O	35:BN:3:HIS:CG	2.66	0.49
10:CK:110:THR:CG2	21:CU:4:LYS:HA	2.43	0.49
44:DX:15:ASN:HA	44:DX:17:GLU:OE2	2.13	0.49
23:DB:1142:A:C4	23:DB:1144:A:C8	3.01	0.49
1:CA:1308:U:P	12:CM:97:ARG:HD3	2.53	0.49
32:BK:54:LYS:HD3	32:BK:54:LYS:N	2.28	0.49
19:CT:66:ILE:HG13	19:CT:70:LYS:HG3	1.95	0.49
28:DF:100:GLU:C	28:DF:102:LEU:H	2.15	0.49
1:AA:1103:C:C5'	20:AB:96:LEU:HD12	2.42	0.49
23:DB:1083:U:C2	23:DB:1086:A:N1	2.81	0.49
35:BN:13:ASN:O	35:BN:17:ARG:N	2.44	0.49
39:DR:67:GLY:H	39:DR:98:ILE:CA	2.26	0.49
37:BP:92:ARG:HH22	37:BP:110:LYS:HE2	1.75	0.49
10:CK:69:CYS:O	10:CK:73:VAL:HG13	2.12	0.49
9:AJ:41:PRO:O	9:AJ:42:LEU:HB2	2.13	0.49
1:AA:16:A:H4'	4:AE:21:SER:H	1.77	0.49
1:AA:1371:G:OP1	8:AI:12:LYS:HG2	2.12	0.49
1:AA:1121:U:O2'	1:AA:1122:U:H5'	2.13	0.49
1:AA:176:C:H2'	1:AA:177:G:N3	2.26	0.49
23:BB:2896:C:H2'	23:BB:2897:U:H6	1.78	0.49
9:CJ:67:ILE:HG23	9:CJ:67:ILE:O	2.13	0.49
23:BB:154:U:H2'	23:BB:155:A:C8	2.48	0.49
28:DF:41:GLU:O	28:DF:43:ILE:N	2.46	0.49
23:DB:2484:G:N2	34:DM:118:LYS:HG2	2.27	0.49
23:DB:242:G:O2'	23:DB:243:U:P	2.70	0.49
40:DS:3:THR:O	40:DS:4:ILE:HB	2.13	0.49
23:DB:170:U:H2'	23:DB:171:U:H6	1.78	0.49
1:CA:193:C:H2'	1:CA:194:C:C6	2.47	0.49
23:BB:2563:U:H2'	23:BB:2565:A:OP2	2.13	0.49
1:CA:382:A:H2'	1:CA:383:A:C8	2.48	0.49
20:AB:162:VAL:HG21	20:AB:168:GLU:HB2	1.94	0.49
23:DB:346:A:C8	23:DB:347:A:H1'	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1112:G:H4'	29:DG:1:SER:O	2.13	0.49
23:DB:208:C:H2'	23:DB:209:C:C6	2.47	0.49
23:DB:1463:C:H2'	23:DB:1464:G:C8	2.48	0.49
27:BE:29:HIS:O	27:BE:33:VAL:HG23	2.12	0.49
23:BB:1904:G:H1'	23:BB:1927:A:N1	2.28	0.49
2:AC:61:LYS:O	2:AC:97:PRO:HD2	2.13	0.49
23:BB:2488:G:O2'	23:BB:2489:U:H5'	2.12	0.49
35:BN:57:THR:OG1	35:BN:61:ALA:HB3	2.12	0.49
23:BB:1268:A:H2'	23:BB:1269:A:O4'	2.13	0.49
1:AA:626:G:H2'	1:AA:627:G:C8	2.48	0.49
34:BM:130:PHE:HD2	34:BM:131:VAL:HG22	1.77	0.49
23:DB:312:G:H2'	23:DB:313:G:H8	1.78	0.49
23:BB:2390:U:O2'	23:BB:2391:G:H5''	2.12	0.49
6:CG:8:GLN:NE2	6:CG:9:ARG:H	2.10	0.49
36:DO:58:ILE:HG13	36:DO:60:GLU:H	1.77	0.49
44:BX:8:GLU:O	44:BX:10:SER:N	2.46	0.49
23:DB:367:G:H2'	23:DB:368:A:O4'	2.12	0.49
9:CJ:46:LYS:HA	9:CJ:68:ARG:HA	1.95	0.49
22:BA:82:U:O2'	22:BA:83:G:H5'	2.13	0.49
27:DE:48:THR:HG23	27:DE:85:PHE:H	1.78	0.49
23:BB:443:A:H2	23:BB:1245:G:N3	2.11	0.49
1:CA:975:A:H61	9:CJ:50:THR:HB	1.77	0.49
25:BC:68:ARG:CD	25:BC:127:ASN:HD21	2.26	0.49
30:DH:3:VAL:HG21	30:DH:37:VAL:HG21	1.95	0.49
22:BA:113:C:H2'	22:BA:114:C:C6	2.48	0.49
23:BB:336:C:O2'	23:BB:337:C:H5'	2.12	0.49
27:BE:127:GLU:O	27:BE:157:LEU:HD22	2.13	0.49
42:DU:28:LEU:HD11	42:DU:31:GLY:CA	2.43	0.49
30:BH:29:PHE:CD2	30:BH:30:LEU:HD23	2.48	0.49
27:DE:138:LEU:HB2	27:DE:143:LEU:HG	1.94	0.49
23:BB:969:G:N2	23:BB:985:C:OP1	2.41	0.49
34:BM:62:LYS:HB3	34:BM:104:GLU:HB2	1.95	0.49
23:BB:583:G:OP1	38:BQ:6:GLY:HA2	2.13	0.49
23:DB:1847:A:H4'	23:DB:1848:A:H8	1.78	0.49
35:BN:52:ILE:HG21	35:BN:94:TYR:CE2	2.48	0.49
23:BB:1131:G:H1'	31:BJ:85:LYS:HZ1	1.77	0.49
5:AF:54:LEU:HD13	5:AF:55:HIS:N	2.27	0.49
23:BB:910:A:H2'	23:BB:911:A:C8	2.47	0.49
27:BE:108:ILE:H	27:BE:108:ILE:CD1	2.26	0.49
33:DL:75:ALA:HB3	33:DL:108:ALA:HA	1.94	0.49
49:B2:34:ARG:HG3	49:B2:34:ARG:HH11	1.77	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:DA:49:C:H4'	36:DO:68:LYS:NZ	2.27	0.49
28:BF:172:PHE:CD1	28:BF:173:ASP:N	2.80	0.49
26:BD:51:THR:O	26:BD:52:THR:HB	2.13	0.49
26:BD:92:VAL:HG13	26:BD:94:GLN:H	1.78	0.49
52:BI:109:ALA:HB1	52:BI:124:MET:CG	2.42	0.49
32:DK:104:THR:HB	32:DK:106:GLU:OE1	2.13	0.49
23:BB:2354:C:H4'	43:BW:30:VAL:CG2	2.38	0.49
12:CM:63:VAL:HG12	12:CM:68:LEU:HB2	1.95	0.49
23:BB:2372:U:OP1	48:B1:44:GLN:HG3	2.13	0.49
15:CP:3:THR:CG2	15:CP:66:THR:HB	2.39	0.49
42:DU:11:ILE:HG22	42:DU:19:GLY:HA2	1.94	0.49
36:BO:8:ILE:HG22	36:BO:10:ARG:H	1.77	0.49
11:AL:54:VAL:HG12	11:AL:56:LEU:HD12	1.95	0.49
9:CJ:8:ILE:HG13	9:CJ:8:ILE:O	2.13	0.49
25:DC:12:ARG:HG3	25:DC:19:VAL:O	2.13	0.49
38:BQ:102:LYS:HG2	38:BQ:103:VAL:H	1.77	0.49
1:CA:35:G:H2'	1:CA:36:C:H6	1.78	0.49
23:DB:1439:A:C8	23:DB:1440:U:C6	3.01	0.49
1:AA:1343:G:H1'	8:AI:122:ARG:HH12	1.78	0.49
23:BB:1383:A:H2	23:BB:1405:U:O2	1.95	0.49
28:DF:8:LYS:HA	28:DF:12:VAL:HG23	1.94	0.49
23:DB:485:C:O2'	23:DB:486:C:H5'	2.12	0.49
1:CA:84:U:O2'	1:CA:86:G:N2	2.46	0.49
50:D3:4:LYS:CE	50:D3:61:LEU:H	2.26	0.49
13:AN:74:ARG:HH11	13:AN:74:ARG:HG3	1.77	0.49
1:AA:471:U:H2'	1:AA:472:U:C6	2.47	0.49
23:BB:2803:G:H2'	23:BB:2804:U:C6	2.47	0.49
22:DA:109:A:H2'	22:DA:110:C:C6	2.48	0.49
9:CJ:15:HIS:HA	9:CJ:18:ILE:HG22	1.94	0.49
2:CC:2:GLN:H	2:CC:2:GLN:NE2	2.10	0.49
1:AA:22:G:H2'	1:AA:23:C:C6	2.47	0.49
1:CA:1243:C:H2'	1:CA:1244:G:H8	1.78	0.49
46:BZ:61:ASN:O	46:BZ:65:ASN:N	2.46	0.49
15:CP:20:VAL:HG21	15:CP:32:PHE:CD2	2.48	0.49
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.48	0.49
1:CA:1031:C:H5'	1:CA:1032:G:C8	2.48	0.49
29:DG:29:ASN:CB	29:DG:78:VAL:HA	2.42	0.49
23:DB:2893:A:H4'	23:DB:2894:G:C5'	2.43	0.49
3:AD:150:LYS:HZ3	3:AD:150:LYS:HB2	1.78	0.49
2:AC:190:THR:HG22	2:AC:191:THR:H	1.78	0.49
1:CA:301:G:H2'	1:CA:302:G:C8	2.48	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:139:ASP:HA	6:AG:142:ARG:NH1	2.28	0.49
23:BB:1120:G:O2'	23:BB:1121:C:H5'	2.13	0.49
16:CQ:30:HIS:CE1	16:CQ:32:ILE:HG22	2.48	0.49
1:AA:627:G:H2'	1:AA:628:G:C8	2.48	0.49
7:AH:73:SER:HB2	7:AH:129:ALA:HB3	1.94	0.49
23:DB:518:G:H2'	23:DB:519:U:C6	2.48	0.49
23:DB:2737:G:H2'	23:DB:2738:A:C8	2.48	0.49
1:CA:71:A:O2'	1:CA:72:A:H5''	2.13	0.49
23:BB:678:C:H2'	23:BB:679:C:H6	1.77	0.49
37:BP:16:VAL:N	37:BP:17:PRO:HD3	2.28	0.49
23:BB:875:G:H2'	23:BB:876:C:O2	2.12	0.49
35:BN:65:LEU:CD1	35:BN:68:ALA:HB3	2.43	0.49
1:CA:1231:G:O2'	1:CA:1232:U:H5'	2.13	0.49
37:DP:50:ARG:CG	37:DP:99:LEU:H	2.25	0.48
23:BB:100:U:C4'	42:BU:90:LYS:HE2	2.26	0.48
36:BO:62:LEU:O	36:BO:64:TYR:N	2.45	0.48
43:DW:69:GLU:HG3	43:DW:70:VAL:N	2.24	0.48
43:DW:67:LYS:HZ2	43:DW:70:VAL:HB	1.77	0.48
43:DW:75:ASN:C	43:DW:77:LYS:H	2.16	0.48
23:DB:2812:G:H2'	23:DB:2813:A:O4'	2.13	0.48
26:DD:81:GLU:O	26:DD:82:PHE:HB2	2.13	0.48
25:DC:168:GLY:C	25:DC:170:TYR:H	2.16	0.48
25:DC:171:VAL:HG23	25:DC:182:LYS:NZ	2.27	0.48
42:BU:99:SER:OG	42:BU:102:ILE:HD11	2.13	0.48
23:DB:336:C:H5''	42:DU:3:LYS:HZ3	1.76	0.48
33:BL:85:VAL:HG22	33:BL:98:ALA:HB2	1.94	0.48
1:AA:448:A:O2'	1:AA:449:G:H5'	2.13	0.48
3:AD:107:GLY:HA2	3:AD:112:GLU:OE1	2.13	0.48
28:BF:135:ILE:O	28:BF:137:PHE:N	2.46	0.48
1:CA:1004:A:H2'	1:CA:1005:A:O4'	2.13	0.48
34:DM:6:ARG:CD	34:DM:71:LYS:HE3	2.42	0.48
23:DB:372:G:C8	46:DZ:57:VAL:HG21	2.48	0.48
26:DD:202:ILE:CG2	26:DD:204:LYS:HG2	2.42	0.48
26:DD:34:VAL:HG12	26:DD:91:THR:HG22	1.94	0.48
33:DL:125:LEU:O	33:DL:127:VAL:HG13	2.13	0.48
23:BB:1601:G:OP1	41:BT:62:VAL:HG21	2.14	0.48
22:DA:49:C:H4'	36:DO:68:LYS:HZ3	1.78	0.48
23:DB:833:A:H2'	23:DB:834:G:H8	1.73	0.48
23:DB:2390:U:O2'	23:DB:2391:G:H5''	2.12	0.48
44:DX:18:LEU:HA	44:DX:22:LEU:CD1	2.37	0.48
44:DX:18:LEU:HD12	44:DX:47:ARG:NH2	2.28	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1814:G:H5'	25:DC:51:ARG:HG2	1.95	0.48
25:BC:222:THR:C	25:BC:224:MET:H	2.16	0.48
38:DQ:82:LEU:HG	38:DQ:88:GLU:HG3	1.93	0.48
23:DB:1153:C:O2'	23:DB:1154:G:H5'	2.13	0.48
28:DF:39:VAL:CG2	28:DF:84:ILE:HD13	2.42	0.48
28:DF:83:PRO:HG2	28:DF:84:ILE:H	1.78	0.48
1:AA:970:C:C5	1:AA:1231:G:H1'	2.48	0.48
23:BB:929:U:H2'	23:BB:930:G:C8	2.47	0.48
5:CF:100:SER:H	17:CR:23:LYS:NZ	2.11	0.48
23:DB:899:A:C2	23:DB:900:A:H1'	2.48	0.48
23:BB:2335:A:P	36:BO:9:ARG:HG3	2.53	0.48
36:BO:8:ILE:HG22	36:BO:10:ARG:CG	2.38	0.48
32:DK:66:LYS:HE3	32:DK:80:ASP:O	2.12	0.48
4:CE:17:VAL:O	4:CE:17:VAL:HG13	2.12	0.48
23:BB:2834:G:H2'	23:BB:2879:A:N6	2.28	0.48
12:CM:102:LYS:HG3	12:CM:103:THR:H	1.77	0.48
23:DB:543:G:H2'	23:DB:545:U:OP1	2.13	0.48
20:CB:218:ALA:CA	20:CB:221:ARG:HG2	2.41	0.48
1:AA:1126:U:O2'	1:AA:1280:A:H2'	2.13	0.48
1:AA:920:U:H2'	1:AA:921:U:C6	2.48	0.48
27:DE:24:ASN:N	27:DE:110:SER:HB2	2.27	0.48
23:DB:353:C:O2	23:DB:353:C:H2'	2.13	0.48
23:BB:1594:U:H2'	23:BB:1595:C:H6	1.75	0.48
39:BR:33:VAL:HB	39:BR:35:PHE:CE2	2.48	0.48
42:BU:46:LYS:N	42:BU:47:PRO:CD	2.72	0.48
23:BB:435:C:H2'	23:BB:436:C:H5'	1.94	0.48
46:DZ:25:ARG:HG3	46:DZ:26:SER:N	2.28	0.48
1:CA:471:U:H2'	1:CA:472:U:C6	2.47	0.48
29:BG:84:LYS:HA	29:BG:84:LYS:NZ	2.28	0.48
8:CI:22:PRO:HA	8:CI:60:LEU:HA	1.94	0.48
29:DG:67:ALA:O	29:DG:71:LEU:HG	2.12	0.48
1:AA:1172:C:H2'	1:AA:1173:U:C6	2.48	0.48
28:BF:18:GLU:HA	28:BF:18:GLU:OE2	2.12	0.48
5:CF:18:VAL:N	5:CF:19:PRO:HD2	2.27	0.48
23:BB:904:G:H2'	23:BB:905:A:H8	1.78	0.48
40:DS:27:LYS:N	40:DS:70:LYS:O	2.46	0.48
23:BB:1747:U:H2'	23:BB:1748:C:C6	2.47	0.48
4:AE:33:THR:O	4:AE:34:ALA:CB	2.61	0.48
23:DB:1412:U:H2'	23:DB:1413:A:H8	1.76	0.48
1:AA:600:A:H2'	1:AA:601:G:C8	2.48	0.48
23:BB:866:A:H61	23:BB:913:U:H4'	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1051:G:H2'	23:DB:1052:C:C6	2.47	0.48
23:DB:1583:A:H4'	23:DB:1585:C:N3	2.29	0.48
16:CQ:30:HIS:CG	16:CQ:33:TYR:HB2	2.48	0.48
23:BB:1544:A:H2'	23:BB:1545:A:C8	2.48	0.48
1:CA:1275:A:H2'	1:CA:1276:G:C8	2.47	0.48
23:DB:39:G:H2'	23:DB:40:U:C6	2.48	0.48
23:DB:685:A:H1'	23:DB:688:U:O4	2.13	0.48
23:DB:409:G:H2'	23:DB:410:G:C8	2.48	0.48
6:CG:64:ALA:O	6:CG:67:ASN:HB2	2.13	0.48
1:CA:916:U:H2'	1:CA:917:G:H8	1.78	0.48
8:AI:90:ASP:O	8:AI:93:LEU:HG	2.13	0.48
23:BB:91:A:H2'	23:BB:92:U:C6	2.48	0.48
26:DD:14:ILE:HG23	26:DD:19:GLY:HA3	1.95	0.48
44:DX:28:LEU:HD13	44:DX:42:LEU:HD21	1.94	0.48
44:DX:43:LEU:N	44:DX:43:LEU:HD22	2.29	0.48
23:BB:2868:A:H2'	23:BB:2869:G:H8	1.78	0.48
37:BP:29:VAL:N	37:BP:44:GLY:HA3	2.29	0.48
23:DB:46:G:H2'	23:DB:47:C:C6	2.48	0.48
26:DD:46:ARG:H	26:DD:82:PHE:HA	1.78	0.48
27:BE:128:ALA:HA	27:BE:157:LEU:CD2	2.42	0.48
30:BH:9:VAL:C	30:BH:11:ASN:H	2.17	0.48
27:DE:154:ASP:CG	27:DE:156:ASN:H	2.17	0.48
23:BB:966:G:H2'	23:BB:967:U:C6	2.47	0.48
46:BZ:15:SER:HB3	46:BZ:23:LYS:CD	2.43	0.48
46:BZ:3:LYS:HG2	46:BZ:8:LYS:HA	1.95	0.48
46:DZ:30:HIS:HB3	46:DZ:32:LEU:HD23	1.95	0.48
24:DV:70:ILE:HD12	24:DV:71:LYS:N	2.23	0.48
23:DB:1799:G:N7	25:DC:178:GLY:CA	2.72	0.48
1:AA:405:U:OP2	3:AD:114:ARG:NH2	2.47	0.48
23:BB:587:C:H4'	23:BB:588:U:C6	2.48	0.48
33:BL:38:GLN:C	33:BL:40:SER:N	2.65	0.48
8:AI:9:GLY:HA2	8:AI:80:HIS:CD2	2.48	0.48
12:AM:56:ARG:O	12:AM:59:VAL:HG12	2.13	0.48
23:BB:1032:A:OP1	51:B4:8:LYS:HB3	2.13	0.48
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.77	0.48
26:BD:114:LYS:HB3	35:BN:3:HIS:HE1	1.77	0.48
1:AA:797:C:OP1	10:AK:125:LYS:HG2	2.13	0.48
27:DE:4:VAL:HA	27:DE:14:VAL:HG13	1.94	0.48
23:BB:1287:A:H3'	23:BB:1288:G:N2	2.28	0.48
23:BB:2734:A:C2'	23:BB:2735:G:H5'	2.43	0.48
32:DK:103:VAL:O	32:DK:104:THR:HG23	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1001:A:H2'	23:DB:1002:G:O4'	2.12	0.48
14:CO:83:ARG:C	14:CO:84:LEU:HD12	2.33	0.48
14:AO:80:LEU:HD23	14:AO:80:LEU:C	2.33	0.48
44:BX:14:LEU:HD11	44:BX:57:LEU:HD22	1.95	0.48
1:AA:236:A:H2'	1:AA:237:G:H8	1.78	0.48
1:AA:806:C:H2'	1:AA:807:A:C8	2.47	0.48
4:AE:19:ARG:O	4:AE:20:VAL:HB	2.12	0.48
9:AJ:88:MET:CE	9:AJ:88:MET:H	2.25	0.48
16:CQ:10:ARG:CZ	16:CQ:11:VAL:N	2.76	0.48
23:BB:2834:G:H2'	23:BB:2879:A:H61	1.78	0.48
23:DB:1790:C:P	25:DC:219:VAL:HB	2.54	0.48
24:DV:29:ILE:HG22	24:DV:90:ASP:HA	1.94	0.48
1:AA:1510:C:H2'	1:AA:1511:G:H8	1.78	0.48
1:AA:546:A:P	3:AD:68:GLU:HB3	2.53	0.48
14:CO:88:ARG:NH1	14:CO:88:ARG:HG3	2.28	0.48
23:DB:150:U:H2'	23:DB:151:C:C6	2.48	0.48
18:CS:3:SER:O	18:CS:4:LEU:HD12	2.12	0.48
48:B1:31:GLU:O	48:B1:32:LYS:HB2	2.13	0.48
1:AA:560:A:H4'	1:AA:561:U:H5''	1.94	0.48
39:BR:16:GLU:O	39:BR:18:GLN:N	2.45	0.48
23:DB:524:G:H5'	23:DB:539:G:N2	2.27	0.48
1:AA:766:A:C2	1:AA:1525:G:N3	2.81	0.48
23:DB:1116:G:H21	34:DM:136:MET:CE	2.25	0.48
23:BB:2860:A:H2'	23:BB:2861:U:O4'	2.13	0.48
10:AK:57:SER:O	10:AK:90:PRO:HG2	2.13	0.48
9:CJ:41:PRO:O	9:CJ:42:LEU:HB2	2.12	0.48
1:CA:1053:G:O2'	1:CA:1199:U:H5	1.96	0.48
23:BB:956:G:H1'	34:BM:81:ARG:HH22	1.77	0.48
23:DB:907:G:O2'	23:DB:908:C:H5'	2.12	0.48
1:AA:901:A:H5'	1:AA:902:G:OP2	2.13	0.48
27:DE:132:LYS:H	27:DE:134:LEU:CD1	2.26	0.48
23:DB:2893:A:H4'	23:DB:2894:G:O5'	2.12	0.48
48:B1:5:ARG:O	48:B1:27:ARG:HB2	2.14	0.48
4:AE:90:GLY:O	4:AE:128:GLY:HA3	2.13	0.48
37:BP:112:ARG:H	37:BP:112:ARG:NH1	2.11	0.48
25:DC:124:LYS:HB2	25:DC:125:PRO:HD2	1.93	0.48
23:DB:2488:G:O2'	23:DB:2489:U:H5'	2.12	0.48
23:BB:523:C:H2'	23:BB:524:G:H8	1.78	0.48
1:AA:893:C:H2'	1:AA:894:G:H8	1.78	0.48
1:AA:140:U:H2'	1:AA:141:G:C8	2.48	0.48
25:DC:94:LEU:HD13	25:DC:100:ARG:HG3	1.94	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:940:C:H2'	1:AA:941:G:C8	2.48	0.48
23:BB:82:U:H2'	23:BB:83:A:C8	2.48	0.48
23:BB:1040:A:H2	23:BB:1115:G:H22	1.59	0.48
27:BE:35:TYR:C	27:BE:37:ALA:H	2.15	0.48
3:AD:54:LEU:C	3:AD:54:LEU:HD13	2.33	0.48
23:BB:1137:G:H2'	23:BB:1138:G:O4'	2.13	0.48
37:BP:47:ILE:HG23	37:BP:63:ILE:HA	1.95	0.48
43:DW:42:THR:HB	43:DW:75:ASN:ND2	2.28	0.48
23:BB:773:U:H4'	25:BC:47:ARG:HB3	1.94	0.48
35:DN:97:ILE:HG23	35:DN:113:ILE:HD11	1.95	0.48
35:DN:32:GLU:HA	35:DN:115:LEU:HD21	1.95	0.48
23:DB:974:G:H4'	39:DR:83:TYR:OH	2.13	0.48
27:DE:112:LEU:HD12	27:DE:115:GLN:HE22	1.78	0.48
32:BK:23:LYS:CG	32:BK:24:VAL:N	2.77	0.48
23:BB:582:A:H2'	23:BB:583:G:C8	2.47	0.48
1:AA:408:A:O5'	3:AD:109:THR:HG21	2.12	0.48
31:DJ:32:LEU:O	31:DJ:36:LEU:HD13	2.13	0.48
28:BF:133:GLU:HG3	28:BF:134:GLN:H	1.77	0.48
23:BB:1151:A:H4'	38:BQ:80:ASN:OD1	2.12	0.48
39:BR:1:MET:HA	39:BR:46:GLU:HG3	1.94	0.48
27:BE:108:ILE:HD12	27:BE:108:ILE:N	2.28	0.48
46:BZ:35:ASP:O	46:BZ:42:PRO:HB3	2.13	0.48
26:BD:119:ALA:HB1	26:BD:123:LYS:HB2	1.96	0.48
25:DC:216:ARG:HB3	25:DC:217:PRO:HD2	1.94	0.48
23:DB:1287:A:H3'	23:DB:1288:G:N2	2.28	0.48
52:BI:79:LEU:HD11	52:BI:131:THR:OG1	2.12	0.48
23:DB:2751:G:OP2	29:DG:3:VAL:HB	2.14	0.48
48:B1:46:VAL:HG22	48:B1:47:ILE:H	1.76	0.48
1:CA:8:A:C6	3:CD:205:LYS:HA	2.47	0.48
23:BB:1080:A:O2'	52:BI:126:ARG:HB2	2.13	0.48
39:DR:69:GLY:HA2	39:DR:96:VAL:CA	2.43	0.48
39:DR:67:GLY:H	39:DR:98:ILE:H	1.60	0.48
4:CE:39:GLY:HA3	4:CE:116:VAL:HB	1.95	0.48
3:AD:160:LEU:HD22	3:AD:161:ALA:N	2.29	0.48
36:BO:10:ARG:HH11	36:BO:10:ARG:HG3	1.78	0.48
49:D2:34:ARG:NH1	49:D2:35:ARG:NH1	2.61	0.48
32:DK:33:ALA:CB	32:DK:39:ILE:HD11	2.44	0.48
1:CA:236:A:H2'	1:CA:237:G:H8	1.78	0.48
31:DJ:121:LYS:CE	31:DJ:121:LYS:N	2.74	0.48
48:D1:7:LYS:HB3	48:D1:24:LYS:HZ1	1.77	0.48
37:BP:2:ASN:ND2	37:BP:2:ASN:H	2.06	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:231:A:H3'	23:BB:232:G:C8	2.48	0.48
1:AA:79:G:H2'	1:AA:80:A:H8	1.74	0.48
1:CA:255:G:H5'	16:CQ:17:GLU:O	2.13	0.48
43:BW:16:GLU:HA	43:BW:18:LYS:NZ	2.28	0.48
1:AA:1247:U:O2'	1:AA:1248:A:H5'	2.13	0.48
28:BF:103:ILE:HG13	28:BF:104:THR:N	2.27	0.48
23:BB:1439:A:C8	23:BB:1440:U:C6	3.01	0.48
25:DC:261:ARG:HG2	25:DC:261:ARG:NH1	2.28	0.48
23:BB:1726:C:H2'	23:BB:1727:C:C6	2.49	0.48
35:BN:77:ALA:HA	35:BN:80:PHE:CE2	2.48	0.48
38:BQ:71:ASN:HD21	38:BQ:109:VAL:HG11	1.78	0.48
23:DB:2484:G:H1'	34:DM:119:LEU:CD1	2.42	0.48
1:CA:560:A:H4'	1:CA:561:U:H5''	1.94	0.48
23:DB:455:C:N4	23:DB:472:A:H2'	2.28	0.48
6:AG:30:MET:HA	6:AG:38:ALA:HB2	1.94	0.48
39:BR:18:GLN:CB	39:BR:99:THR:HA	2.42	0.48
23:BB:2803:G:H2'	23:BB:2804:U:H6	1.79	0.48
24:BV:76:ASP:CB	34:BM:136:MET:HG3	2.44	0.48
29:DG:84:LYS:HE2	29:DG:163:TYR:CD1	2.48	0.48
19:CT:56:ILE:O	19:CT:60:GLN:HG2	2.13	0.48
34:BM:76:LYS:HA	34:BM:86:LYS:HD3	1.94	0.48
1:AA:1225:A:H4'	18:AS:77:ARG:HH22	1.77	0.48
1:CA:634:C:O2'	1:CA:635:A:H5'	2.13	0.48
15:CP:22:ALA:HB2	15:CP:32:PHE:HA	1.94	0.48
23:BB:850:U:H2'	23:BB:851:C:C6	2.48	0.48
23:DB:197:A:H4'	23:DB:2069:G:OP2	2.12	0.48
1:AA:319:G:O2'	1:AA:320:A:H5'	2.14	0.48
23:BB:1230:A:H2'	23:BB:1231:U:H6	1.78	0.48
1:CA:319:G:O2'	1:CA:320:A:H5'	2.13	0.48
23:BB:2893:A:H4'	23:BB:2894:G:O5'	2.12	0.48
23:DB:2378:A:C2'	23:DB:2379:G:H5'	2.43	0.48
1:AA:1082:A:O2'	1:AA:1083:U:H5'	2.13	0.48
23:BB:1463:C:H2'	23:BB:1464:G:C8	2.48	0.48
23:DB:2873:A:N3	35:DN:6:SER:HA	2.28	0.48
2:AC:122:GLN:HE22	2:AC:136:ALA:HB1	1.79	0.48
1:CA:513:C:H2'	1:CA:514:C:H6	1.79	0.48
1:CA:1093:A:P	6:CG:3:ARG:HH22	2.36	0.48
25:DC:38:LYS:HG3	25:DC:39:SER:H	1.79	0.48
1:CA:505:G:H5'	1:CA:534:U:H2'	1.94	0.48
23:DB:1236:G:C2'	23:DB:1237:A:OP2	2.61	0.48
23:DB:2063:C:O2	23:DB:2450:A:N1	2.46	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BS:42:LYS:O	40:BS:46:LEU:HG	2.14	0.48
1:CA:182:A:H1'	1:CA:183:C:C5	2.48	0.48
1:AA:1021:A:H2'	1:AA:1022:A:O4'	2.13	0.48
50:B3:14:LYS:O	50:B3:21:PHE:HB3	2.13	0.48
37:BP:25:VAL:CG2	37:BP:49:ILE:HD11	2.44	0.48
23:DB:856:G:H2'	23:DB:857:G:C8	2.48	0.48
25:BC:129:LEU:HD22	25:BC:133:ASN:HB2	1.94	0.48
25:BC:155:ARG:HG2	25:BC:155:ARG:HH21	1.79	0.48
25:BC:171:VAL:HA	25:BC:183:VAL:O	2.13	0.48
23:DB:2834:G:H2'	23:DB:2879:A:N6	2.28	0.48
26:DD:62:LYS:CB	26:DD:63:PRO:HD3	2.43	0.48
23:DB:1818:U:OP1	25:DC:155:ARG:HA	2.12	0.48
31:BJ:132:HIS:HB3	31:BJ:136:GLN:HE22	1.78	0.48
27:DE:149:ILE:CD1	27:DE:188:MET:HB2	2.44	0.48
23:BB:970:U:H2'	23:BB:971:G:H8	1.78	0.48
23:DB:2226:C:H2'	23:DB:2227:A:O4'	2.13	0.48
41:DT:65:GLY:HA3	41:DT:76:ARG:HH21	1.78	0.48
25:BC:216:ARG:HB3	25:BC:217:PRO:CD	2.43	0.48
10:AK:88:PRO:HD3	21:AU:28:LEU:CD1	2.41	0.48
33:DL:79:LEU:HD11	33:DL:112:LEU:HD23	1.96	0.48
1:AA:926:G:N2	1:AA:1505:G:H2'	2.29	0.48
55:DB:3317:HOH:O	26:DD:152:PRO:HG2	2.12	0.48
21:AU:13:VAL:CG1	21:AU:14:ALA:H	2.17	0.48
25:DC:225:ASN:N	25:DC:226:PRO:HD3	2.29	0.48
44:DX:26:PHE:HD1	44:DX:26:PHE:H	1.60	0.48
44:DX:47:ARG:HA	44:DX:50:VAL:HG23	1.95	0.48
45:DY:2:LYS:H	45:DY:37:ARG:HB3	1.78	0.48
33:BL:79:LEU:CD1	33:BL:79:LEU:H	2.26	0.48
1:CA:1309:G:H1'	12:CM:72:ILE:HG13	1.95	0.48
1:CA:1250:A:H4'	8:CI:69:GLY:N	2.17	0.48
5:AF:67:PRO:O	5:AF:70:VAL:HG22	2.13	0.48
3:CD:25:ARG:HG3	3:CD:25:ARG:O	2.13	0.48
33:DL:115:GLU:C	33:DL:116:VAL:HG13	2.34	0.48
15:CP:54:LEU:HA	15:CP:57:ILE:CG2	2.43	0.48
23:BB:2316:G:H2'	23:BB:2317:A:H8	1.78	0.48
28:DF:56:LEU:CA	28:DF:59:ILE:HG22	2.42	0.48
52:DI:17:ALA:O	52:DI:18:ASN:CB	2.61	0.48
17:CR:62:ARG:C	17:CR:64:LEU:H	2.15	0.48
12:CM:89:ARG:CB	12:CM:96:VAL:HG22	2.44	0.48
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.49	0.48
16:CQ:45:VAL:HG11	16:CQ:60:ILE:HG21	1.96	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:204:LEU:HD11	25:BC:211:ARG:HH11	1.79	0.48
23:BB:1407:G:H2'	23:BB:1408:G:H8	1.78	0.48
23:DB:455:C:H42	23:DB:472:A:H2'	1.77	0.48
24:BV:57:TYR:HA	24:BV:74:ALA:HB3	1.95	0.48
23:BB:1313:U:O2	23:BB:1313:U:H2'	2.12	0.48
23:BB:1312:U:H4'	23:BB:1313:U:O5'	2.12	0.48
23:BB:843:G:H2'	23:BB:844:A:C8	2.48	0.48
1:CA:692:U:H2'	1:CA:694:A:OP2	2.14	0.48
1:CA:399:G:H2'	1:CA:400:C:H6	1.77	0.48
9:CJ:15:HIS:O	9:CJ:18:ILE:HG22	2.13	0.48
1:AA:554:A:H2'	1:AA:555:U:C6	2.49	0.48
36:DO:29:HIS:HB3	36:DO:36:TYR:HB2	1.95	0.48
1:CA:1349:A:H1'	1:CA:1374:A:N6	2.28	0.48
1:CA:600:A:H2'	1:CA:601:G:C8	2.48	0.48
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.14	0.48
23:BB:2544:G:H2'	23:BB:2545:G:H8	1.78	0.48
40:DS:27:LYS:N	40:DS:27:LYS:HD2	2.29	0.48
25:BC:220:ARG:HG3	25:BC:220:ARG:HH11	1.78	0.48
5:AF:9:MET:HA	5:AF:58:HIS:O	2.13	0.48
1:CA:448:A:O2'	1:CA:449:G:H5'	2.12	0.48
22:BA:52:A:H3'	22:BA:53:A:H8	1.77	0.48
23:BB:62:U:H3'	23:BB:63:A:C8	2.49	0.48
23:BB:1011:G:O2'	23:BB:1013:C:H5''	2.13	0.48
23:DB:1268:A:H2'	23:DB:1269:A:O4'	2.13	0.48
23:DB:1312:U:H4'	23:DB:1313:U:O5'	2.12	0.48
23:DB:562:U:C4	23:DB:2036:C:O4'	2.67	0.48
23:DB:1213:A:N1	23:DB:1237:A:H1'	2.27	0.48
1:CA:608:A:H2'	1:CA:609:A:O4'	2.14	0.48
1:CA:157:U:O2'	1:CA:158:G:H5'	2.13	0.48
23:BB:2468:A:H2'	23:BB:2476:A:C6	2.48	0.48
23:BB:685:A:H1'	23:BB:688:U:O4	2.13	0.48
23:DB:2544:G:H2'	23:DB:2545:G:H8	1.77	0.48
23:DB:1511:G:H2'	23:DB:1512:C:H6	1.77	0.48
23:DB:1244:A:O2'	23:DB:1245:G:H5'	2.13	0.48
2:AC:66:THR:HA	2:AC:101:ASN:O	2.14	0.48
1:AA:418:C:H2'	1:AA:419:C:H6	1.78	0.48
19:CT:50:PHE:O	19:CT:53:MET:HG3	2.13	0.48
52:DI:70:THR:O	52:DI:70:THR:HG23	2.12	0.48
49:B2:3:ARG:HB3	49:B2:5:PHE:CE1	2.48	0.48
1:AA:708:C:H2'	1:AA:709:U:C6	2.48	0.48
3:CD:202:LEU:C	3:CD:204:SER:H	2.17	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:DP:48:ALA:HB3	37:DP:64:SER:HB3	1.94	0.48
23:BB:39:G:O2'	23:BB:40:U:H5'	2.14	0.48
43:DW:44:PHE:HB3	43:DW:77:LYS:C	2.34	0.48
25:BC:155:ARG:NH2	25:BC:155:ARG:HG2	2.29	0.48
25:DC:140:VAL:HG11	25:DC:163:ILE:CD1	2.42	0.48
27:DE:147:LEU:N	27:DE:147:LEU:HD12	2.27	0.48
27:DE:152:GLU:OE2	27:DE:188:MET:HA	2.13	0.48
46:BZ:30:HIS:O	46:BZ:48:GLN:NE2	2.47	0.48
46:BZ:50:ASP:CA	46:BZ:53:THR:HG22	2.43	0.48
34:BM:43:ALA:C	34:BM:45:GLN:N	2.67	0.48
23:BB:2053:G:OP1	26:BD:149:ASN:O	2.31	0.48
23:BB:2575:C:C5'	26:BD:149:ASN:N	2.74	0.48
41:DT:2:ILE:HG12	41:DT:3:ARG:N	2.27	0.48
46:DZ:62:LYS:CA	46:DZ:65:ASN:HD21	2.26	0.48
31:DJ:114:LEU:HG	31:DJ:118:MET:CE	2.43	0.48
38:BQ:88:GLU:HA	39:BR:53:PHE:CG	2.48	0.48
40:BS:32:ALA:O	40:BS:33:LEU:HD13	2.14	0.48
23:BB:2260:C:O2'	23:BB:2261:C:H5'	2.14	0.48
43:BW:39:GLN:C	43:BW:40:ARG:HG3	2.33	0.48
21:AU:3:ILE:CA	21:AU:19:LYS:HG2	2.35	0.48
1:AA:1318:A:H4'	18:AS:9:PHE:CD1	2.49	0.48
30:DH:90:LEU:HD13	30:DH:122:LEU:O	2.14	0.48
23:BB:142:A:H2'	23:BB:143:C:H6	1.79	0.48
41:BT:30:ILE:CG2	41:BT:85:VAL:HG22	2.43	0.48
41:BT:6:ARG:HG3	41:BT:10:VAL:HG13	1.95	0.48
23:BB:2722:G:H2'	23:BB:2723:C:C6	2.49	0.48
27:DE:15:SER:CB	27:DE:196:VAL:HG22	2.41	0.48
26:BD:106:LYS:HZ2	26:BD:208:LYS:HD3	1.78	0.48
23:DB:2840:C:H2'	23:DB:2841:C:C6	2.48	0.48
1:CA:16:A:N1	1:CA:919:A:C2	2.82	0.48
23:BB:276:U:O2'	23:BB:277:G:H5'	2.14	0.48
1:AA:90:C:H2'	1:AA:91:U:C6	2.47	0.48
29:BG:174:LYS:HD2	29:BG:174:LYS:N	2.29	0.48
16:CQ:80:LYS:H	16:CQ:80:LYS:CD	2.26	0.48
23:BB:2812:G:H2'	23:BB:2813:A:O4'	2.13	0.48
31:BJ:7:LYS:NZ	31:BJ:49:ASP:H	2.12	0.48
23:DB:1299:G:H4'	23:DB:1301:A:C1'	2.42	0.48
23:DB:1726:C:H2'	23:DB:1727:C:C6	2.49	0.48
23:BB:1299:G:C4'	23:BB:1301:A:H1'	2.40	0.48
2:CC:119:ILE:HD12	2:CC:132:ALA:HB1	1.95	0.48
23:BB:130:C:O2'	23:BB:131:A:H5'	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1178:C:C2	23:DB:1179:G:N7	2.81	0.48
24:BV:79:ARG:HB3	24:BV:79:ARG:CZ	2.43	0.48
1:AA:766:A:H2'	1:AA:767:A:O4'	2.13	0.48
23:DB:2803:G:H2'	23:DB:2804:U:H6	1.79	0.48
24:BV:76:ASP:HB2	34:BM:136:MET:HE3	1.94	0.48
15:AP:28:ARG:HG3	15:AP:29:ASN:ND2	2.29	0.48
23:BB:363:G:H2'	23:BB:364:C:H6	1.78	0.48
42:DU:96:LYS:O	42:DU:97:SER:HB3	2.13	0.48
16:CQ:25:GLU:HA	16:CQ:40:THR:HA	1.96	0.48
23:BB:1817:G:OP1	25:BC:62:ARG:NH2	2.46	0.48
1:AA:1038:C:H2'	1:AA:1039:G:H8	1.78	0.48
30:DH:135:HIS:CG	30:DH:136:SER:N	2.81	0.48
23:BB:2308:G:H3'	23:BB:2308:G:N3	2.28	0.48
23:BB:1579:A:H2'	23:BB:1580:A:H8	1.78	0.48
23:DB:673:C:O2'	23:DB:674:G:H5'	2.13	0.48
23:DB:2568:U:H2'	23:DB:2569:G:O4'	2.14	0.48
31:BJ:15:TRP:HB3	31:BJ:53:TYR:CE2	2.48	0.48
23:DB:723:C:H2'	23:DB:724:U:H6	1.79	0.48
1:CA:627:G:H2'	1:CA:628:G:H8	1.78	0.48
23:BB:1599:U:H2'	23:BB:1600:C:C6	2.48	0.48
1:CA:964:A:H2'	1:CA:965:U:H5''	1.95	0.48
23:DB:1322:A:C2'	23:DB:1323:C:H5'	2.44	0.48
23:BB:909:A:H2'	23:BB:912:C:H5	1.79	0.48
23:BB:572:A:H5''	23:BB:573:U:OP2	2.12	0.48
22:BA:63:C:H2'	22:BA:64:G:H8	1.79	0.48
23:DB:2563:U:H2'	23:DB:2565:A:OP2	2.13	0.48
48:D1:4:ILE:HG23	48:D1:4:ILE:O	2.13	0.48
23:DB:1581:G:O2'	23:DB:1582:C:H5'	2.13	0.48
51:D4:24:ARG:HE	51:D4:37:GLN:CA	2.26	0.48
37:BP:50:ARG:NH1	37:BP:62:LYS:HB3	2.29	0.48
37:BP:52:ARG:N	37:BP:60:VAL:HG21	2.29	0.48
43:DW:20:LEU:CD1	43:DW:31:LEU:HB2	2.44	0.48
43:DW:43:LYS:O	43:DW:44:PHE:CB	2.60	0.48
43:DW:67:LYS:CG	43:DW:71:LYS:HB2	2.36	0.48
43:DW:73:PRO:C	43:DW:74:LYS:HD2	2.34	0.48
23:DB:2633:G:C1'	26:DD:62:LYS:HG3	2.39	0.48
23:BB:1017:G:H2'	23:BB:1018:U:C6	2.49	0.48
18:AS:46:LEU:O	18:AS:60:PHE:HA	2.12	0.48
30:BH:7:ASP:OD1	30:BH:35:LYS:HB3	2.14	0.48
30:BH:7:ASP:O	30:BH:9:VAL:HG23	2.13	0.48
33:DL:50:PHE:O	33:DL:51:GLU:C	2.51	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:73:ILE:CD1	34:BM:92:TRP:H	2.25	0.48
24:BV:9:ARG:HB2	24:BV:39:ALA:O	2.13	0.48
35:BN:7:GLY:O	35:BN:8:ARG:CB	2.61	0.48
21:CU:15:LEU:HA	21:CU:17:ARG:NH1	2.24	0.48
34:DM:43:ALA:HB3	34:DM:91:TYR:CE2	2.48	0.48
39:BR:45:GLU:HA	39:BR:50:GLY:HA2	1.95	0.48
39:BR:41:ILE:O	39:BR:54:VAL:HG22	2.14	0.48
39:BR:71:LYS:O	39:BR:94:THR:HA	2.13	0.48
20:CB:95:TRP:HZ3	20:CB:98:GLY:H	1.62	0.48
47:B0:36:LYS:HZ3	47:B0:41:HIS:HA	1.78	0.48
18:AS:4:LEU:CA	18:AS:5:LYS:HE3	2.43	0.48
26:BD:142:VAL:C	26:BD:144:GLY:N	2.67	0.48
35:BN:2:ARG:O	35:BN:3:HIS:CB	2.62	0.48
26:DD:153:GLY:C	26:DD:155:VAL:N	2.65	0.48
23:DB:2026:U:H2'	23:DB:2027:G:H8	1.77	0.48
23:DB:2512:C:OP1	26:DD:128:ARG:N	2.47	0.48
23:DB:2516:A:O2'	23:DB:2517:C:H5'	2.13	0.48
23:BB:2645:G:H4'	23:BB:2732:G:H2'	1.96	0.48
26:BD:2:ILE:HG22	26:BD:204:LYS:HG3	1.95	0.48
25:DC:53:ILE:HG23	25:DC:216:ARG:HB2	1.95	0.48
26:DD:175:LEU:HD21	26:DD:192:ALA:HB3	1.95	0.48
45:BY:18:LYS:HD2	45:BY:53:MET:CE	2.42	0.48
23:DB:654:A:H2'	23:DB:655:A:C5'	2.33	0.48
1:AA:978:A:O2'	1:AA:1322:C:H5	1.96	0.48
33:DL:37:GLY:O	33:DL:38:GLN:HG3	2.14	0.48
14:CO:84:LEU:HB3	14:CO:86:LEU:HD13	1.96	0.48
1:CA:840:C:C2	1:CA:842:U:H4'	2.49	0.48
35:BN:16:HIS:O	35:BN:20:MET:HG2	2.13	0.48
23:BB:1079:C:O2'	52:BI:133:ARG:NH2	2.46	0.48
2:AC:90:VAL:HA	2:AC:93:ILE:HG21	1.95	0.48
51:D4:30:GLU:CB	51:D4:33:HIS:HB2	2.41	0.48
1:AA:1025:U:H5''	1:AA:1026:G:OP1	2.14	0.48
28:DF:136:ILE:O	28:DF:138:PRO:HD3	2.13	0.48
23:BB:231:A:H3'	23:BB:232:G:H8	1.79	0.48
10:CK:30:ILE:HG22	10:CK:45:THR:HB	1.95	0.48
1:AA:429:U:H3'	3:AD:8:LEU:HD23	1.96	0.48
23:DB:859:G:O2'	23:DB:860:U:OP2	2.32	0.48
23:DB:1791:A:H61	23:DB:1828:G:H1'	1.78	0.48
25:BC:71:ASP:O	25:BC:73:ILE:N	2.46	0.48
1:AA:1149:C:H2'	1:AA:1150:A:C8	2.48	0.48
1:AA:999:C:O2'	1:AA:1000:A:H5'	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CO:10:ILE:HD11	14:CO:29:ALA:HB1	1.94	0.48
1:CA:280:C:O2	16:CQ:39:ARG:HG3	2.13	0.48
40:DS:72:THR:HG22	40:DS:106:VAL:O	2.13	0.48
8:CI:112:ARG:HD2	13:CN:100:TRP:OXT	2.13	0.48
23:BB:1688:U:O2	23:BB:1700:A:H5'	2.13	0.48
23:BB:2092:U:H4'	23:BB:2093:G:O5'	2.14	0.48
23:BB:1332:G:H2'	23:BB:1332:G:N3	2.29	0.48
23:BB:720:U:H2'	23:BB:721:A:H8	1.78	0.48
14:AO:54:GLY:O	14:AO:58:MET:HG2	2.13	0.48
25:DC:77:VAL:HG21	25:DC:109:LEU:HD23	1.95	0.48
1:CA:123:U:H5''	1:CA:311:C:O2'	2.12	0.48
23:BB:2307:G:H2'	23:BB:2307:G:N3	2.29	0.48
23:BB:1355:G:O2'	23:BB:1356:G:H5'	2.14	0.48
6:CG:55:LYS:HG3	6:CG:56:SER:N	2.28	0.48
6:CG:59:GLU:HA	6:CG:62:GLU:CD	2.34	0.48
24:DV:77:VAL:HG13	24:DV:89:ILE:CD1	2.44	0.48
29:BG:114:HIS:HB2	29:BG:150:TYR:HE2	1.79	0.48
1:CA:1240:U:P	6:CG:115:MET:H	2.37	0.48
44:DX:55:THR:C	44:DX:57:LEU:H	2.15	0.48
23:BB:2530:A:H61	29:BG:155:PRO:HG3	1.78	0.48
1:CA:218:U:H2'	1:CA:219:U:H6	1.78	0.48
22:DA:94:A:OP1	24:DV:19:ARG:HD3	2.13	0.48
1:CA:140:U:H2'	1:CA:141:G:C8	2.48	0.48
1:AA:869:G:H4'	1:AA:872:A:C8	2.49	0.48
23:DB:2862:G:H2'	23:DB:2863:C:H6	1.79	0.48
23:BB:2180:U:H2'	23:BB:2181:U:C5	2.48	0.48
23:DB:274:C:H2'	23:DB:275:C:O4'	2.12	0.48
23:DB:1313:U:H2'	23:DB:1313:U:O2	2.12	0.48
27:DE:56:GLY:O	27:DE:57:LYS:HG3	2.14	0.48
34:DM:83:GLY:O	34:DM:84:LYS:HB2	2.12	0.48
23:DB:2000:C:O2'	23:DB:2001:C:H5'	2.14	0.48
23:BB:2776:A:H4'	23:BB:2777:G:O5'	2.13	0.48
23:BB:2593:U:O2'	23:BB:2594:C:H5'	2.13	0.48
23:BB:306:U:H2'	23:BB:307:G:O4'	2.13	0.48
42:DU:48:VAL:HG13	42:DU:51:LEU:N	2.29	0.48
37:DP:85:VAL:O	37:DP:87:ARG:NE	2.46	0.48
25:BC:51:ARG:HD3	25:BC:51:ARG:O	2.13	0.48
25:BC:143:VAL:HG11	25:BC:173:LEU:HD11	1.95	0.48
25:BC:171:VAL:HG21	25:BC:182:LYS:HD3	1.96	0.48
30:DH:2:GLN:CB	30:DH:19:VAL:HA	2.43	0.48
25:DC:153:LEU:C	25:DC:155:ARG:H	2.17	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:25:LEU:HD12	31:BJ:62:VAL:HG12	1.94	0.48
38:DQ:50:ARG:HH22	38:DQ:53:LYS:NZ	2.12	0.48
30:BH:19:VAL:HG12	30:BH:20:ASN:N	2.28	0.48
33:BL:60:ARG:NH1	50:B3:11:LYS:HE2	2.27	0.48
33:BL:110:VAL:HG23	33:BL:126:ARG:CB	2.43	0.48
34:BM:20:LEU:CB	34:BM:38:ARG:HD3	2.43	0.48
35:DN:2:ARG:NH1	35:DN:4:ARG:HH12	2.11	0.48
3:AD:2:ARG:HG3	3:AD:114:ARG:NH1	2.29	0.48
36:DO:4:LYS:O	36:DO:7:ARG:HG2	2.12	0.48
45:BY:9:THR:HG23	45:BY:10:ARG:N	2.25	0.48
25:BC:218:THR:HG22	25:BC:218:THR:O	2.13	0.48
23:DB:851:C:H2'	23:DB:852:U:C6	2.49	0.48
40:BS:28:LYS:HB3	40:BS:71:VAL:HG21	1.96	0.48
23:BB:2743:U:C3'	23:BB:2744:G:H5''	2.44	0.48
10:AK:80:ASN:HD21	10:AK:107:THR:CG2	2.27	0.48
26:DD:48:ILE:CG2	26:DD:49:GLN:N	2.76	0.48
23:BB:2000:C:O2'	23:BB:2001:C:H5'	2.14	0.48
44:DX:16:THR:HG1	44:DX:19:LEU:HB3	1.79	0.48
26:BD:34:VAL:HG11	26:BD:71:ALA:CB	2.44	0.48
26:BD:46:ARG:HD2	26:BD:80:TRP:CE2	2.49	0.48
25:DC:212:TRP:CZ3	25:DC:217:PRO:HD3	2.49	0.48
25:BC:226:PRO:HD3	25:BC:233:GLY:N	2.29	0.48
52:BI:75:ALA:HB2	52:BI:112:LYS:HE2	1.95	0.48
13:CN:40:ARG:CZ	18:CS:6:LYS:HB2	2.44	0.48
45:DY:3:THR:CA	45:DY:37:ARG:H	2.23	0.48
31:DJ:68:LYS:HD2	31:DJ:72:LYS:CB	2.43	0.48
1:CA:1287:A:H2'	1:CA:1288:A:H8	1.76	0.48
23:BB:1059:G:N2	52:BI:130:GLY:HA3	2.29	0.48
52:DI:90:GLY:C	52:DI:92:PRO:HD3	2.34	0.48
1:AA:948:C:O2'	1:AA:949:A:H5'	2.14	0.48
10:CK:70:ALA:N	10:CK:73:VAL:HG22	2.29	0.48
23:DB:2800:A:H2'	23:DB:2801:G:C4'	2.43	0.48
1:AA:79:G:H2'	1:AA:80:A:O4'	2.14	0.48
31:BJ:7:LYS:HZ3	31:BJ:48:VAL:CA	2.27	0.48
11:AL:113:ARG:HA	11:AL:118:VAL:HG23	1.96	0.48
16:CQ:60:ILE:HG12	16:CQ:72:TRP:HE3	1.78	0.48
23:DB:1727:C:H2'	23:DB:1728:C:H6	1.74	0.48
1:AA:397:A:H5'	1:AA:398:U:OP1	2.13	0.48
23:DB:1407:G:H2'	23:DB:1408:G:H8	1.78	0.48
1:AA:922:G:H2'	1:AA:923:A:H8	1.78	0.48
9:CJ:64:GLN:CB	13:CN:98:ALA:HB3	2.43	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1390:U:H2'	1:CA:1391:U:C6	2.49	0.48
23:BB:2795:C:H6	23:BB:2795:C:O5'	1.97	0.48
18:CS:56:HIS:CD2	18:CS:56:HIS:N	2.80	0.48
23:DB:955:U:H5'	23:DB:956:G:OP2	2.12	0.48
9:CJ:37:ARG:HG2	9:CJ:37:ARG:NH1	2.29	0.48
42:DU:22:GLY:HA3	42:DU:35:VAL:CG2	2.43	0.48
4:CE:148:SER:HB2	4:CE:149:PRO:HD2	1.94	0.48
23:BB:712:G:H2'	23:BB:713:G:O4'	2.13	0.48
20:CB:153:MET:C	20:CB:155:GLY:H	2.17	0.48
8:CI:33:SER:HB2	8:CI:36:GLN:CG	2.44	0.48
23:DB:417:C:H2'	23:DB:418:C:H6	1.78	0.48
23:DB:2105:U:H2'	23:DB:2106:U:C6	2.48	0.48
1:AA:736:C:H2'	1:AA:737:C:H6	1.77	0.48
23:BB:1561:C:H2'	23:BB:1562:U:C6	2.49	0.48
23:DB:493:G:O2'	23:DB:494:G:H5'	2.14	0.48
1:CA:1164:G:O2'	1:CA:1165:U:H5'	2.13	0.48
1:CA:893:C:H2'	1:CA:894:G:H8	1.78	0.48
1:CA:903:G:H2'	1:CA:904:U:C6	2.48	0.48
36:BO:58:ILE:HG13	36:BO:63:LYS:HB3	1.94	0.48
47:B0:11:LYS:C	47:B0:13:GLY:H	2.15	0.48
1:AA:147:G:H2'	1:AA:148:G:C8	2.48	0.48
35:BN:102:PHE:N	35:BN:102:PHE:HD2	2.11	0.48
1:CA:1516:G:H2'	1:CA:1518:A:OP2	2.13	0.48
19:AT:19:HIS:O	19:AT:23:ARG:HG2	2.13	0.48
1:CA:659:U:H2'	1:CA:660:C:C6	2.48	0.48
23:BB:67:U:C4	23:BB:68:G:N7	2.82	0.48
3:CD:27:ILE:C	3:CD:29:THR:H	2.16	0.48
6:CG:139:ASP:O	6:CG:142:ARG:HB3	2.14	0.48
1:CA:1116:U:O2'	1:CA:1117:A:H5'	2.13	0.48
1:AA:340:U:H2'	1:AA:341:C:H6	1.79	0.48
23:BB:1759:A:H4'	23:BB:2715:C:O4'	2.13	0.48
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.49	0.48
20:AB:68:PHE:HA	20:AB:161:PHE:O	2.12	0.48
23:DB:1098:A:N3	52:DI:3:LYS:O	2.46	0.48
37:DP:18:SER:HB2	37:DP:87:ARG:NH2	2.28	0.48
30:BH:81:ALA:CB	30:BH:147:VAL:H	2.27	0.48
23:DB:2526:G:H2'	23:DB:2527:C:C6	2.48	0.48
37:BP:93:LYS:CB	37:BP:96:LEU:HA	2.43	0.48
43:DW:67:LYS:HE3	43:DW:71:LYS:H	1.78	0.48
23:BB:1818:U:H5''	25:BC:155:ARG:HG2	1.95	0.48
25:BC:87:SER:N	25:BC:155:ARG:HH12	2.11	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:139:THR:O	25:DC:191:LEU:HD12	2.14	0.48
31:BJ:21:THR:HA	31:BJ:61:LYS:HB2	1.95	0.48
50:B3:12:ARG:NH2	50:B3:55:GLY:HA3	2.28	0.48
23:BB:2394:C:OP1	33:BL:63:LYS:O	2.30	0.48
46:BZ:31:ASP:O	46:BZ:32:LEU:HB3	2.14	0.48
24:BV:26:PHE:HZ	24:BV:47:VAL:HB	1.79	0.48
23:BB:2572:A:OP2	26:BD:151:THR:HA	2.14	0.48
1:AA:267:C:OP2	16:AQ:68:LYS:HD2	2.14	0.48
16:AQ:17:GLU:C	16:AQ:19:SER:H	2.17	0.48
25:DC:267:VAL:HG12	25:DC:268:ARG:N	2.28	0.48
23:BB:942:G:O2'	23:BB:943:A:H5'	2.14	0.48
33:BL:38:GLN:H	33:BL:41:ARG:NH1	2.11	0.48
23:BB:1156:A:H62	38:BQ:47:ARG:CD	2.27	0.48
39:DR:32:THR:HB	39:DR:65:ALA:C	2.34	0.48
41:DT:47:VAL:HG13	41:DT:48:GLN:N	2.29	0.48
31:DJ:114:LEU:HG	31:DJ:118:MET:HE1	1.96	0.48
28:BF:59:ILE:HD11	28:BF:137:PHE:CG	2.49	0.48
23:DB:871:U:H4'	34:DM:68:PHE:CE1	2.49	0.48
23:BB:1206:G:H2'	23:BB:1207:C:C6	2.49	0.48
41:BT:34:VAL:HG11	41:BT:43:ILE:HD11	1.94	0.48
41:BT:6:ARG:C	41:BT:8:LEU:N	2.67	0.48
23:BB:1657:U:P	26:BD:141:ARG:HB2	2.54	0.48
21:CU:6:ARG:C	21:CU:7:GLU:HG2	2.34	0.48
52:BI:58:ILE:N	52:BI:58:ILE:HD12	2.29	0.48
26:BD:1:MET:SD	26:BD:84:LEU:HD13	2.54	0.48
25:BC:229:HIS:ND1	25:BC:230:PRO:HD2	2.28	0.48
39:BR:37:GLU:HG2	39:BR:62:GLU:N	2.19	0.48
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.13	0.48
12:CM:18:LEU:HD23	12:CM:24:VAL:HG21	1.94	0.48
4:CE:19:ARG:O	4:CE:20:VAL:HB	2.14	0.48
10:CK:121:ARG:HH21	21:CU:34:ARG:NE	2.11	0.48
8:CI:56:MET:C	8:CI:58:GLU:H	2.17	0.48
1:CA:1008:U:H3'	1:CA:1009:U:H5''	1.95	0.48
23:DB:810:U:N3	33:DL:37:GLY:HA2	2.29	0.48
29:BG:18:ILE:N	29:BG:18:ILE:HD13	2.29	0.48
38:DQ:98:ALA:HA	38:DQ:105:PHE:CG	2.49	0.48
16:AQ:28:VAL:C	16:AQ:36:PHE:HA	2.33	0.48
23:DB:1666:G:O2'	23:DB:1667:G:H5'	2.13	0.48
6:CG:112:ASP:HB2	6:CG:118:ARG:CG	2.41	0.48
4:CE:17:VAL:HA	4:CE:33:THR:O	2.13	0.48
1:CA:1310:G:O2'	1:CA:1311:A:H5'	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:7:LYS:HZ3	31:BJ:49:ASP:H	1.61	0.48
1:AA:591:U:H2'	1:AA:592:G:C8	2.48	0.48
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.49	0.48
35:BN:99:LYS:HZ3	35:BN:99:LYS:HB3	1.78	0.48
23:DB:951:C:O2'	23:DB:952:G:H5'	2.14	0.48
23:BB:1791:A:H61	23:BB:1828:G:H1'	1.78	0.48
23:BB:1841:U:H2'	23:BB:1842:G:H8	1.79	0.48
3:AD:201:GLU:OE1	4:AE:104:ILE:HG22	2.14	0.48
23:BB:132:G:H2'	23:BB:133:U:C6	2.49	0.48
24:BV:77:VAL:HG13	24:BV:77:VAL:O	2.14	0.48
20:CB:86:CYS:SG	20:CB:87:ASP:N	2.86	0.48
3:CD:156:ALA:O	3:CD:160:LEU:HD12	2.14	0.48
16:AQ:30:HIS:H	16:AQ:35:LYS:H	1.61	0.48
13:AN:50:LEU:CD2	13:AN:51:PRO:HD3	2.41	0.48
1:CA:766:A:H2'	1:CA:767:A:O4'	2.13	0.48
23:BB:673:C:O2'	23:BB:674:G:H5'	2.13	0.48
23:DB:2106:U:C2'	23:DB:2107:G:OP1	2.62	0.48
31:DJ:105:VAL:HA	31:DJ:108:MET:HE3	1.94	0.48
23:DB:1706:C:C2	23:DB:1757:A:H5'	2.48	0.48
1:AA:1225:A:N3	1:AA:1225:A:H2'	2.29	0.48
23:BB:188:G:O2'	23:BB:189:G:H5'	2.14	0.48
23:DB:1779:U:OP2	23:DB:1784:A:N6	2.46	0.48
1:CA:591:U:H2'	1:CA:592:G:C8	2.48	0.48
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.48	0.48
17:CR:20:ILE:HD12	17:CR:53:GLN:HE22	1.79	0.48
23:DB:197:A:H62	23:DB:2430:A:H2'	1.78	0.48
23:BB:2893:A:H4'	23:BB:2894:G:C5'	2.43	0.48
23:BB:207:A:H2'	23:BB:208:C:O4'	2.14	0.48
8:CI:40:ARG:HA	8:CI:44:ARG:NH1	2.29	0.48
1:CA:1020:G:N3	1:CA:1020:G:H2'	2.29	0.48
23:BB:1583:A:H4'	23:BB:1585:C:N3	2.28	0.48
35:DN:14:SER:HA	35:DN:17:ARG:HH12	1.79	0.48
23:BB:1467:U:C4	23:BB:1546:G:C2	3.01	0.48
52:BI:63:ASP:C	52:BI:65:SER:N	2.67	0.48
23:DB:2344:U:H4'	23:DB:2345:G:OP1	2.13	0.48
3:AD:66:VAL:HG13	3:AD:70:GLN:OE1	2.13	0.48
1:CA:1260:G:HO2'	1:CA:1261:A:H8	1.59	0.48
1:AA:363:A:OP2	11:AL:30:ARG:NH1	2.47	0.48
23:BB:2149:U:O2'	23:BB:2150:C:H5'	2.13	0.48
23:BB:2259:U:O2	23:BB:2259:U:H2'	2.13	0.48
24:BV:78:GLN:HB2	24:BV:88:HIS:O	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CL:75:GLU:OE2	11:CL:76:HIS:N	2.47	0.48
37:DP:87:ARG:HH11	37:DP:87:ARG:HG2	1.79	0.48
42:BU:95:PHE:HD1	42:BU:96:LYS:HG2	1.78	0.48
42:BU:96:LYS:HE2	42:BU:98:ASN:HB3	1.96	0.48
23:BB:2683:C:H2'	23:BB:2684:U:C6	2.49	0.48
37:BP:29:VAL:C	37:BP:44:GLY:HA3	2.34	0.48
23:DB:2261:C:OP2	43:DW:13:ARG:HB2	2.14	0.48
25:BC:164:VAL:HB	25:BC:167:ASP:OD2	2.13	0.48
23:DB:1821:A:H2'	23:DB:1822:C:H6	1.76	0.48
25:DC:128:THR:HA	25:DC:189:ALA:O	2.14	0.48
25:DC:137:GLY:C	25:DC:139:THR:N	2.66	0.48
23:DB:1819:A:OP1	25:DC:155:ARG:HB3	2.14	0.48
30:BH:3:VAL:HG22	30:BH:21:VAL:HG21	1.96	0.48
23:BB:633:A:H2'	23:BB:634:C:C5'	2.41	0.48
23:BB:2485:G:H1'	34:BM:118:LYS:HZ3	1.79	0.48
38:BQ:35:PHE:HB3	38:BQ:39:ILE:HD12	1.96	0.48
36:DO:39:VAL:HG13	36:DO:39:VAL:O	2.13	0.48
23:BB:1157:G:H2'	23:BB:1158:C:H6	1.79	0.48
41:DT:63:VAL:O	41:DT:79:ASP:HA	2.14	0.48
8:AI:51:LEU:HD11	8:AI:82:ILE:HG21	1.96	0.48
8:AI:79:ARG:O	8:AI:83:THR:HG22	2.14	0.48
28:BF:55:ASP:CG	28:BF:148:VAL:HG11	2.34	0.48
31:BJ:35:ARG:NE	31:BJ:39:LYS:HB3	2.24	0.48
47:B0:28:SER:O	47:B0:36:LYS:HB2	2.13	0.48
40:BS:29:VAL:C	40:BS:31:GLN:H	2.16	0.48
23:DB:1197:G:O2'	23:DB:1198:U:H5'	2.14	0.48
33:DL:77:ILE:HG21	33:DL:92:LEU:HG	1.96	0.48
38:BQ:52:ARG:CZ	38:BQ:55:GLN:HE21	2.27	0.48
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.77	0.48
23:BB:545:U:H2'	23:BB:547:A:P	2.54	0.48
10:CK:110:THR:HG22	21:CU:5:VAL:N	2.23	0.48
27:DE:14:VAL:HG11	27:DE:16:GLU:CD	2.34	0.48
23:DB:2038:G:H2'	23:DB:2039:U:C6	2.49	0.48
2:AC:154:GLY:HA2	2:AC:163:ARG:O	2.12	0.48
5:CF:38:ARG:NH2	5:CF:63:ASN:ND2	2.59	0.48
25:BC:231:HIS:ND1	25:BC:231:HIS:O	2.47	0.48
1:CA:554:A:H2'	1:CA:555:U:C6	2.49	0.48
45:DY:2:LYS:CA	45:DY:37:ARG:HB2	2.44	0.48
1:CA:1254:A:H2'	1:CA:1255:G:C8	2.49	0.48
1:AA:840:C:C2	1:AA:842:U:H4'	2.49	0.48
15:CP:54:LEU:HD13	15:CP:80:LYS:HZ2	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2059:A:N6	23:BB:2503:A:H2'	2.29	0.48
21:CU:39:LYS:H	21:CU:40:PRO:CD	2.21	0.48
35:BN:9:GLN:HE21	35:BN:17:ARG:HH12	1.61	0.48
45:BY:35:VAL:CG1	45:BY:37:ARG:HH21	2.27	0.48
3:AD:37:PRO:HD2	3:AD:41:GLY:HA3	1.96	0.48
11:AL:78:VAL:O	11:AL:102:ASP:HB2	2.14	0.48
19:CT:2:ASN:O	19:CT:3:ILE:C	2.52	0.48
8:CI:29:ILE:HB	8:CI:64:ILE:HD12	1.95	0.48
52:BI:17:ALA:O	52:BI:18:ASN:CB	2.62	0.48
18:AS:66:VAL:C	18:AS:68:HIS:H	2.17	0.48
16:CQ:10:ARG:NE	16:CQ:56:ASP:O	2.44	0.48
2:AC:57:GLU:HB2	2:AC:64:ARG:CB	2.43	0.48
31:BJ:46:PRO:O	31:BJ:47:HIS:HB2	2.14	0.48
12:CM:102:LYS:NZ	12:CM:103:THR:HG23	2.28	0.48
41:BT:74:ILE:HG22	41:BT:75:GLY:N	2.29	0.48
23:DB:704:G:HO2'	23:DB:705:A:P	2.37	0.48
23:DB:1438:U:O2'	23:DB:1439:A:H5'	2.14	0.48
23:DB:150:U:H2'	23:DB:151:C:H6	1.78	0.48
5:CF:12:PRO:HB3	5:CF:56:LYS:O	2.13	0.48
23:DB:2466:C:O2'	34:DM:118:LYS:HE2	2.13	0.48
50:D3:4:LYS:HE3	50:D3:61:LEU:CB	2.44	0.48
23:DB:1688:U:O2	23:DB:1700:A:H5'	2.13	0.48
29:BG:70:LEU:O	29:BG:74:MET:HG3	2.14	0.48
3:AD:58:GLN:O	3:AD:62:ARG:HG2	2.12	0.48
39:BR:66:HIS:N	39:BR:98:ILE:HD13	2.28	0.48
1:AA:1071:C:O2'	1:AA:1072:G:H5'	2.14	0.48
11:CL:51:VAL:HG12	11:CL:52:CYS:N	2.27	0.48
23:DB:963:U:H2'	23:DB:964:C:C6	2.49	0.48
23:BB:2291:U:OP1	23:BB:2380:C:O2'	2.31	0.48
2:CC:168:ARG:HG2	2:CC:169:GLU:N	2.28	0.48
23:BB:728:G:H4'	25:BC:12:ARG:HH22	1.79	0.48
1:AA:1018:G:H2'	1:AA:1019:A:H8	1.77	0.48
27:DE:134:LEU:HD22	27:DE:134:LEU:N	2.27	0.48
38:DQ:55:GLN:O	38:DQ:58:GLN:HG3	2.12	0.48
1:AA:476:U:O2'	1:AA:477:C:H5'	2.14	0.48
10:CK:48:GLY:C	10:CK:50:GLY:H	2.17	0.48
23:DB:2773:C:H5''	26:DD:169:ARG:HB2	1.95	0.48
4:AE:89:THR:HG22	4:AE:90:GLY:N	2.29	0.48
13:AN:33:VAL:HG23	13:AN:40:ARG:HH21	1.79	0.48
23:BB:1433:A:H2'	23:BB:1434:A:O4'	2.13	0.48
23:DB:1467:U:C4	23:DB:1546:G:C2	3.01	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:839:U:O2'	23:BB:1191:G:H1'	2.14	0.48
1:CA:869:G:H4'	1:CA:872:A:C8	2.49	0.48
1:AA:608:A:H2'	1:AA:609:A:O4'	2.14	0.48
23:DB:1213:A:C6	23:DB:1237:A:H1'	2.49	0.48
23:BB:562:U:H2'	23:BB:572:A:O4'	2.14	0.48
41:BT:20:ALA:C	41:BT:22:THR:H	2.17	0.48
1:AA:66:A:O5'	1:AA:66:A:H8	1.97	0.48
17:CR:47:ARG:CZ	17:CR:48:ALA:H	2.27	0.48
6:CG:75:LYS:HE3	6:CG:76:SER:O	2.13	0.48
26:DD:121:THR:HG21	26:DD:143:PRO:HD3	1.96	0.48
7:CH:88:LYS:HD3	7:CH:89:ASP:N	2.29	0.48
37:DP:70:GLU:HG2	37:DP:71:ARG:HG2	1.96	0.48
23:BB:84:A:H3'	42:BU:5:ARG:HG3	1.96	0.48
23:BB:36:G:H4'	23:BB:451:U:C2	2.49	0.48
23:BB:2845:U:H2'	23:BB:2846:G:C8	2.49	0.48
37:BP:76:HIS:CD2	37:BP:76:HIS:N	2.82	0.48
30:DH:8:LYS:HE2	30:DH:9:VAL:N	2.27	0.48
23:BB:921:C:H2'	23:BB:922:C:H6	1.79	0.48
36:BO:40:ILE:CD1	36:BO:40:ILE:H	2.27	0.48
36:BO:46:GLU:C	36:BO:48:LEU:H	2.17	0.48
33:DL:51:GLU:OE1	33:DL:51:GLU:N	2.47	0.48
46:BZ:3:LYS:CE	46:BZ:8:LYS:HA	2.41	0.48
32:BK:85:VAL:O	32:BK:87:LEU:HD23	2.14	0.48
34:BM:7:THR:HG23	34:BM:91:TYR:OH	2.14	0.48
23:DB:137:U:H2'	23:DB:138:U:O4'	2.13	0.48
23:DB:2376:A:H2	36:DO:117:PHE:HD2	1.61	0.48
33:BL:27:LEU:N	33:BL:27:LEU:HD12	2.23	0.48
40:BS:6:LYS:CA	40:BS:104:THR:HA	2.32	0.48
23:BB:992:C:H1'	39:BR:91:GLN:CB	2.44	0.48
26:BD:110:THR:HG22	26:BD:171:THR:CA	2.42	0.48
28:BF:56:LEU:HA	28:BF:59:ILE:CG2	2.44	0.48
25:BC:79:ARG:NH2	25:BC:110:LYS:HD3	2.29	0.48
25:BC:64:VAL:HB	25:BC:65:ASP:H	1.42	0.48
31:BJ:35:ARG:NH2	31:BJ:40:HIS:N	2.61	0.48
31:BJ:39:LYS:C	31:BJ:41:LYS:H	2.17	0.48
39:BR:1:MET:HA	39:BR:46:GLU:CB	2.43	0.48
47:B0:28:SER:O	47:B0:29:VAL:HG12	2.13	0.48
47:B0:32:THR:HG22	47:B0:32:THR:O	2.13	0.48
40:BS:31:GLN:HB3	40:BS:35:ILE:CG2	2.44	0.48
1:CA:1343:G:H1'	8:CI:122:ARG:HH12	1.79	0.48
3:CD:64:TYR:CE2	3:CD:93:LEU:HD13	2.48	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BV:60:VAL:HG13	24:BV:72:VAL:O	2.13	0.48
33:DL:57:LEU:HB3	50:D3:54:LEU:HD22	1.95	0.48
28:DF:141:ASP:O	28:DF:142:TYR:HB3	2.13	0.48
52:BI:37:PHE:CZ	52:BI:58:ILE:HD11	2.49	0.48
26:BD:38:LYS:N	26:BD:38:LYS:CD	2.76	0.48
32:DK:63:VAL:CG1	32:DK:103:VAL:HG12	2.44	0.48
31:DJ:67:ASN:C	31:DJ:69:ARG:H	2.16	0.48
33:DL:90:VAL:HG12	33:DL:122:VAL:HG22	1.96	0.48
1:AA:36:C:H5''	11:AL:119:LYS:HB3	1.94	0.48
22:DA:33:G:O2'	22:DA:34:A:H5'	2.14	0.48
12:AM:18:LEU:O	12:AM:21:ILE:HG13	2.13	0.48
36:BO:87:ILE:CG1	36:BO:88:LYS:N	2.76	0.48
1:AA:16:A:N1	1:AA:919:A:H2	2.12	0.48
9:CJ:40:ILE:CG1	9:CJ:73:LEU:HB3	2.44	0.48
19:AT:59:ARG:HH11	19:AT:59:ARG:CB	2.25	0.48
3:AD:154:VAL:HG13	3:AD:155:LYS:N	2.25	0.48
23:DB:616:A:H3'	23:DB:617:G:C8	2.44	0.48
23:DB:1903:G:OP1	25:DC:239:PHE:HA	2.13	0.48
20:AB:127:LYS:HB2	20:AB:127:LYS:NZ	2.29	0.48
23:BB:2526:G:H2'	23:BB:2527:C:H6	1.79	0.48
23:DB:942:G:H2'	23:DB:943:A:H8	1.79	0.48
23:DB:234:U:C2'	23:DB:235:U:H5'	2.44	0.48
20:CB:65:LYS:CB	20:CB:157:PRO:HA	2.43	0.48
23:DB:1165:A:H2'	23:DB:1166:G:H8	1.77	0.48
23:DB:607:U:P	27:DE:98:LYS:HG3	2.54	0.48
25:DC:136:VAL:C	25:DC:165:ALA:HA	2.34	0.48
1:CA:78:A:O2'	1:CA:79:G:H5'	2.14	0.48
23:BB:503:A:H4'	23:BB:504:A:H5'	1.94	0.48
23:DB:1579:A:H2'	23:DB:1580:A:H8	1.78	0.48
23:BB:1537:G:H2'	23:BB:1538:G:O4'	2.14	0.48
1:AA:333:U:H2'	1:AA:334:C:C6	2.49	0.48
1:AA:113:G:H1'	1:AA:354:G:H5'	1.96	0.48
23:BB:2568:U:H2'	23:BB:2569:G:O4'	2.14	0.48
23:BB:1662:U:O2	23:BB:2687:U:H4'	2.13	0.48
23:BB:1315:C:H2'	23:BB:1316:U:H6	1.77	0.48
23:DB:1219:U:OP2	38:DQ:18:LYS:HE3	2.14	0.48
1:CA:737:C:H2'	1:CA:738:C:H6	1.79	0.48
23:DB:188:G:O2'	23:DB:189:G:H5'	2.14	0.48
1:CA:1480:A:H2'	1:CA:1481:U:H6	1.79	0.48
1:CA:627:G:H2'	1:CA:628:G:C8	2.48	0.48
1:CA:1426:G:H2'	1:CA:1427:C:H6	1.79	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:708:C:H2'	1:CA:709:U:H6	1.79	0.48
23:BB:2737:G:H2'	23:BB:2738:A:C8	2.48	0.48
26:DD:105:LYS:O	26:DD:177:VAL:HG12	2.14	0.48
23:DB:2350:C:O2'	23:DB:2351:G:H5'	2.14	0.48
1:AA:659:U:H2'	1:AA:660:C:C6	2.49	0.48
1:AA:110:C:H2'	1:AA:111:G:O4'	2.14	0.48
23:BB:388:G:N7	23:BB:390:U:H2'	2.28	0.48
23:BB:947:A:O2'	23:BB:984:A:H2	1.97	0.48
1:CA:110:C:H2'	1:CA:111:G:O4'	2.14	0.48
23:DB:2527:C:OP1	51:D4:34:LYS:HE2	2.14	0.47
26:BD:8:LYS:O	26:BD:9:VAL:HG22	2.13	0.47
37:BP:81:ASP:O	37:BP:83:ILE:N	2.46	0.47
31:BJ:125:TYR:HE2	31:BJ:134:ALA:HB2	1.78	0.47
43:BW:44:PHE:CE2	43:BW:80:SER:HA	2.49	0.47
23:DB:396:G:H2'	23:DB:397:U:C6	2.49	0.47
23:BB:2462:C:H2'	23:BB:2463:C:C6	2.49	0.47
34:BM:96:ILE:CG2	34:BM:97:GLN:H	2.17	0.47
36:DO:25:ARG:NE	36:DO:94:ARG:HH12	2.06	0.47
36:DO:10:ARG:HG3	36:DO:96:GLY:H	1.77	0.47
23:DB:853:C:H2'	23:DB:854:C:H6	1.78	0.47
18:CS:43:MET:CB	18:CS:61:VAL:HG11	2.44	0.47
23:BB:1132:U:H5'	31:BJ:85:LYS:HZ3	1.79	0.47
23:DB:871:U:H2'	23:DB:872:U:C6	2.49	0.47
43:BW:40:ARG:HB2	43:BW:41:GLY:H	1.58	0.47
3:CD:170:LEU:HD12	3:CD:170:LEU:O	2.14	0.47
51:B4:9:LYS:O	51:B4:10:LEU:HB3	2.14	0.47
26:DD:24:VAL:HG21	26:DD:193:VAL:CG1	2.44	0.47
23:DB:636:G:OP2	33:DL:126:ARG:NH2	2.47	0.47
33:DL:140:GLY:O	33:DL:142:ILE:N	2.47	0.47
26:BD:16:THR:CG2	26:BD:17:GLU:H	2.14	0.47
28:DF:18:GLU:C	28:DF:20:ASN:N	2.66	0.47
26:DD:148:GLN:HB3	26:DD:151:THR:HG21	1.96	0.47
23:DB:1133:A:N6	23:DB:2025:C:O2'	2.46	0.47
32:BK:63:VAL:CG1	32:BK:103:VAL:HA	2.44	0.47
26:BD:26:VAL:HG23	26:BD:187:LEU:HB3	1.96	0.47
23:DB:2683:C:H2'	23:DB:2684:U:C6	2.49	0.47
32:DK:63:VAL:HG22	32:DK:115:ILE:HD11	1.95	0.47
32:DK:77:ILE:HD11	32:DK:105:ARG:HH12	1.77	0.47
23:BB:2144:G:H2'	23:BB:2146:C:OP2	2.14	0.47
1:CA:921:U:H2'	1:CA:922:G:O4'	2.13	0.47
14:CO:25:GLU:HA	14:CO:80:LEU:HD12	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:836:G:H2'	1:CA:837:U:H6	1.79	0.47
1:AA:782:A:H2'	1:AA:783:C:O4'	2.14	0.47
23:DB:2143:C:H2'	23:DB:2144:G:C4'	2.43	0.47
23:BB:271:G:HO2'	23:BB:272:A:H8	1.62	0.47
35:BN:118:ARG:NH1	47:B0:50:GLY:HA3	2.29	0.47
2:CC:140:ALA:HB2	2:CC:148:ILE:HD12	1.96	0.47
1:CA:954:G:H2'	1:CA:955:U:H6	1.79	0.47
23:BB:2800:A:H2'	23:BB:2801:G:C4'	2.43	0.47
8:CI:29:ILE:HD13	8:CI:37:TYR:CD2	2.49	0.47
23:BB:2815:C:H2'	23:BB:2816:G:H8	1.79	0.47
23:DB:582:A:H2'	23:DB:583:G:C8	2.47	0.47
29:BG:42:VAL:HG12	29:BG:51:PHE:CD1	2.49	0.47
2:CC:146:LYS:HD3	2:CC:203:LYS:O	2.14	0.47
23:DB:704:G:O2'	23:DB:726:G:N2	2.46	0.47
3:CD:118:SER:C	3:CD:120:LYS:H	2.18	0.47
23:BB:1299:G:H4'	23:BB:1301:A:C1'	2.42	0.47
1:CA:1361:G:C2'	1:CA:1362:A:H5''	2.43	0.47
23:DB:2795:C:O5'	23:DB:2795:C:H6	1.96	0.47
44:DX:51:ALA:O	44:DX:53:VAL:HG12	2.14	0.47
23:DB:1531:C:H2'	23:DB:1532:A:H8	1.75	0.47
23:DB:1681:G:N3	23:DB:1762:A:H2'	2.29	0.47
23:DB:1685:C:H2'	23:DB:1686:C:H6	1.78	0.47
12:AM:89:ARG:NH1	12:AM:94:LEU:HD13	2.29	0.47
1:AA:634:C:O2'	1:AA:635:A:H5'	2.14	0.47
30:DH:97:ARG:H	30:DH:97:ARG:HG2	1.38	0.47
23:BB:1681:G:N3	23:BB:1762:A:H2'	2.29	0.47
28:BF:2:LYS:HB2	28:BF:100:GLU:HG2	1.96	0.47
23:BB:852:U:H5'	45:BY:45:GLY:HA3	1.96	0.47
32:DK:18:ARG:HB2	32:DK:45:GLU:CG	2.44	0.47
23:DB:2220:U:H2'	23:DB:2221:G:C8	2.48	0.47
23:BB:209:C:H2'	23:BB:210:C:C6	2.48	0.47
20:AB:174:GLU:O	20:AB:178:LEU:HD23	2.14	0.47
23:BB:256:A:O2'	23:BB:257:C:H5'	2.14	0.47
23:BB:1957:C:H2'	23:BB:1958:C:C6	2.48	0.47
20:CB:68:PHE:HA	20:CB:161:PHE:O	2.14	0.47
23:BB:753:A:H2'	23:BB:754:U:H6	1.78	0.47
29:BG:126:THR:CG2	29:BG:128:THR:HG23	2.44	0.47
20:AB:27:LYS:HB3	20:AB:28:PRO:HD3	1.96	0.47
6:AG:85:GLN:O	6:AG:86:VAL:C	2.52	0.47
33:DL:31:GLY:HA2	33:DL:36:LYS:HG2	1.96	0.47
29:BG:169:ARG:C	29:BG:171:LYS:H	2.17	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1658:C:OP1	26:DD:136:ASN:ND2	2.47	0.47
1:CA:911:U:H2'	1:CA:912:C:C6	2.49	0.47
23:BB:2864:G:H2'	23:BB:2865:U:C6	2.49	0.47
23:DB:2593:U:O2'	23:DB:2594:C:H5'	2.13	0.47
1:AA:434:U:H2'	1:AA:434:U:O2	2.15	0.47
45:DY:13:ILE:HD13	45:DY:13:ILE:H	1.79	0.47
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.48	0.47
37:DP:79:VAL:HG23	37:DP:81:ASP:OD1	2.14	0.47
23:DB:460:A:H2'	23:DB:461:C:O4'	2.14	0.47
20:AB:209:VAL:HG23	20:AB:210:THR:H	1.77	0.47
23:DB:2526:G:H2'	23:DB:2527:C:H6	1.79	0.47
25:BC:131:MET:O	25:BC:134:ILE:HB	2.14	0.47
25:BC:141:HIS:O	25:BC:153:LEU:HD21	2.14	0.47
35:DN:36:THR:HG22	35:DN:37:THR:H	1.78	0.47
31:DJ:133:ALA:O	31:DJ:135:GLN:N	2.47	0.47
43:BW:46:ALA:HA	43:BW:57:THR:OG1	2.14	0.47
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.47	0.47
23:DB:298:G:C2	23:DB:339:U:C5	3.02	0.47
33:BL:126:ARG:HD3	33:BL:126:ARG:C	2.34	0.47
34:BM:33:LEU:HB2	34:BM:101:VAL:HG22	1.96	0.47
23:DB:137:U:H2'	23:DB:138:U:C5'	2.45	0.47
35:DN:2:ARG:NH2	35:DN:4:ARG:HH11	2.12	0.47
3:AD:67:LEU:N	3:AD:67:LEU:HD22	2.29	0.47
33:BL:39:LYS:HB2	33:BL:46:VAL:HG22	1.95	0.47
41:DT:31:VAL:HG23	41:DT:82:LYS:HG3	1.95	0.47
8:AI:59:LYS:HB3	8:AI:59:LYS:HZ3	1.78	0.47
5:CF:6:ILE:HG23	5:CF:62:MET:CB	2.35	0.47
26:DD:180:VAL:HG23	26:DD:181:ASP:H	1.78	0.47
26:DD:95:SER:O	26:DD:96:ILE:HG13	2.12	0.47
41:BT:60:THR:HG22	41:BT:83:ALA:CB	2.44	0.47
33:BL:90:VAL:HG12	33:BL:121:THR:O	2.14	0.47
23:DB:356:G:H2'	23:DB:357:C:C6	2.50	0.47
23:DB:2647:U:O2'	23:DB:2648:G:H5'	2.15	0.47
26:BD:206:ALA:C	26:BD:208:LYS:H	2.17	0.47
23:DB:2730:C:H4'	26:DD:174:SER:O	2.13	0.47
23:BB:2144:G:C4	23:BB:2146:C:H5'	2.49	0.47
5:AF:35:LYS:HD2	5:AF:65:GLU:OE2	2.14	0.47
1:CA:1302:C:H4'	1:CA:1303:C:OP1	2.13	0.47
2:CC:71:ARG:HG3	2:CC:71:ARG:O	2.15	0.47
23:BB:284:U:H2'	23:BB:285:G:C8	2.48	0.47
49:D2:12:ARG:NH2	49:D2:16:HIS:HB2	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:10:VAL:HG13	29:DG:14:VAL:HG12	1.96	0.47
29:DG:10:VAL:HG13	29:DG:14:VAL:CG1	2.44	0.47
10:CK:12:ARG:HB3	10:CK:13:LYS:HD2	1.96	0.47
5:CF:51:ILE:O	5:CF:51:ILE:HG23	2.14	0.47
23:BB:233:A:H61	23:BB:428:A:N6	2.12	0.47
31:BJ:7:LYS:C	31:BJ:9:GLU:H	2.17	0.47
4:AE:132:PRO:HA	4:AE:135:VAL:HG22	1.95	0.47
23:DB:543:G:C5	23:DB:544:C:H1'	2.49	0.47
23:DB:544:C:O5'	23:DB:545:U:OP1	2.32	0.47
11:CL:80:LEU:HB3	11:CL:97:VAL:CG2	2.44	0.47
22:DA:47:C:H5'	36:DO:97:PHE:HZ	1.77	0.47
29:BG:5:LYS:NZ	29:BG:69:ALA:HB2	2.29	0.47
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.14	0.47
1:CA:587:G:H4'	7:CH:3:GLN:HA	1.96	0.47
23:BB:2087:G:H2'	23:BB:2088:A:C8	2.49	0.47
1:CA:500:G:C5'	11:CL:120:ARG:HH21	2.28	0.47
28:BF:33:ILE:HG22	28:BF:155:ILE:HG12	1.95	0.47
41:BT:93:LEU:H	41:BT:93:LEU:CD2	2.25	0.47
8:AI:24:ASN:CA	8:AI:26:LYS:HZ2	2.27	0.47
23:DB:16:C:O3'	47:D0:10:SER:HA	2.14	0.47
39:BR:18:GLN:N	39:BR:18:GLN:OE1	2.47	0.47
1:AA:470:C:H2'	1:AA:471:U:H6	1.79	0.47
23:BB:1358:G:N2	23:BB:1372:U:C5	2.82	0.47
1:CA:413:G:H5'	1:CA:414:A:OP1	2.14	0.47
20:AB:116:LEU:HB3	20:AB:140:LEU:CD2	2.44	0.47
23:DB:1358:G:N2	23:DB:1372:U:C5	2.82	0.47
23:DB:956:G:H4'	34:DM:81:ARG:HH21	1.79	0.47
52:BI:91:LYS:HG3	52:BI:91:LYS:O	2.13	0.47
1:CA:370:C:H2'	1:CA:371:A:H8	1.77	0.47
2:CC:2:GLN:NE2	2:CC:2:GLN:N	2.62	0.47
13:AN:27:LYS:HE2	13:AN:48:GLN:NE2	2.28	0.47
34:BM:80:VAL:O	34:BM:81:ARG:HB3	2.14	0.47
1:CA:1404:C:H2'	1:CA:1405:G:H8	1.80	0.47
1:AA:1225:A:H5'	12:AM:101:THR:HG23	1.96	0.47
20:AB:128:LEU:HD13	20:AB:129:THR:H	1.79	0.47
20:AB:128:LEU:CG	20:AB:132:GLU:HG2	2.44	0.47
28:BF:177:ARG:HG2	28:BF:178:LYS:N	2.28	0.47
23:DB:664:G:O2'	23:DB:665:U:H5'	2.14	0.47
25:DC:123:ILE:HG12	25:DC:135:PRO:HD2	1.97	0.47
30:BH:141:LYS:HD3	30:BH:141:LYS:N	2.29	0.47
1:AA:737:C:H2'	1:AA:738:C:H6	1.79	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:135:HIS:HB3	30:DH:138:VAL:CB	2.44	0.47
23:BB:863:A:H2'	23:BB:864:G:C8	2.49	0.47
5:AF:18:VAL:HG11	5:AF:58:HIS:CE1	2.49	0.47
23:DB:2519:U:H5'	23:DB:2567:G:N2	2.29	0.47
1:CA:1517:G:H1'	23:DB:1919:A:O3'	2.15	0.47
23:DB:491:G:H2'	23:DB:492:A:O4'	2.14	0.47
4:AE:134:ASN:O	4:AE:137:ARG:HG2	2.13	0.47
23:DB:844:A:C2	23:DB:845:A:C6	3.02	0.47
1:AA:197:A:H4'	1:AA:198:G:O5'	2.15	0.47
23:DB:1433:A:H2'	23:DB:1434:A:O4'	2.13	0.47
37:BP:112:ARG:H	37:BP:112:ARG:HH11	1.60	0.47
20:CB:80:LYS:HA	20:CB:90:PHE:CZ	2.50	0.47
23:BB:1585:C:H2'	23:BB:1586:A:O4'	2.14	0.47
23:DB:1585:C:H2'	23:DB:1586:A:O4'	2.14	0.47
2:CC:23:ALA:HB3	2:CC:28:PHE:HD1	1.78	0.47
23:DB:806:C:H2'	23:DB:807:U:C6	2.49	0.47
23:DB:1213:A:N6	23:DB:1236:G:H1'	2.29	0.47
23:BB:946:C:H2'	23:BB:947:A:C8	2.49	0.47
23:DB:1775:U:H2'	23:DB:1776:G:O4'	2.14	0.47
1:AA:152:A:N6	1:AA:170:U:C2	2.83	0.47
1:AA:1198:G:H2'	1:AA:1199:U:C6	2.49	0.47
14:CO:81:ILE:HD12	14:CO:87:ARG:HB2	1.96	0.47
23:DB:2828:G:O2'	23:DB:2829:A:H5'	2.14	0.47
23:DB:2207:C:H2'	23:DB:2208:C:C6	2.48	0.47
38:DQ:116:LEU:HD22	38:DQ:116:LEU:N	2.28	0.47
29:BG:10:VAL:HG13	29:BG:10:VAL:O	2.13	0.47
41:DT:54:GLU:HB3	41:DT:91:GLN:OE1	2.14	0.47
6:AG:102:TRP:O	6:AG:106:ALA:HB3	2.14	0.47
23:BB:1427:A:H4'	23:BB:1428:C:O4'	2.14	0.47
34:DM:57:VAL:CG1	34:DM:58:LYS:H	2.12	0.47
30:DH:3:VAL:CG1	30:DH:37:VAL:HG11	2.44	0.47
30:BH:6:LEU:CD2	30:BH:50:ARG:HD3	2.44	0.47
30:BH:5:LEU:C	30:BH:7:ASP:H	2.18	0.47
16:AQ:10:ARG:NE	16:AQ:11:VAL:H	2.12	0.47
25:DC:266:ILE:HD11	25:DC:268:ARG:HH22	1.79	0.47
9:AJ:5:ARG:HB3	9:AJ:77:VAL:HA	1.96	0.47
23:DB:851:C:O2'	23:DB:852:U:H5'	2.14	0.47
18:CS:39:ILE:CG2	18:CS:66:VAL:HA	2.45	0.47
35:BN:75:ILE:C	35:BN:75:ILE:HD13	2.35	0.47
25:BC:24:HIS:ND1	25:BC:25:LYS:N	2.62	0.47
25:BC:29:PHE:C	25:BC:29:PHE:CD1	2.87	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:63:ILE:HG22	25:BC:64:VAL:N	2.29	0.47
20:CB:95:TRP:CH2	20:CB:99:MET:HB2	2.49	0.47
27:BE:165:HIS:C	27:BE:166:LYS:HG3	2.35	0.47
27:BE:147:LEU:HA	27:BE:166:LYS:O	2.13	0.47
10:AK:17:ASP:HA	10:AK:80:ASN:O	2.14	0.47
18:CS:18:VAL:C	18:CS:42:ASN:HD21	2.17	0.47
41:BT:33:LYS:HE3	41:BT:80:TRP:NE1	2.29	0.47
23:BB:2822:G:O6	35:BN:1:MET:N	2.41	0.47
27:BE:73:ILE:C	27:BE:75:SER:N	2.66	0.47
23:DB:2286:G:H5'	23:DB:2286:G:C8	2.49	0.47
52:BI:116:MET:HE2	52:BI:124:MET:HA	1.97	0.47
26:DD:11:MET:O	26:DD:23:PRO:HD2	2.15	0.47
2:AC:171:ARG:NH1	2:AC:173:PRO:HG3	2.29	0.47
4:CE:89:THR:HG23	4:CE:90:GLY:N	2.29	0.47
33:DL:39:LYS:NZ	33:DL:39:LYS:CA	2.76	0.47
1:CA:781:A:H2'	1:CA:782:A:C5'	2.38	0.47
3:AD:81:LEU:CD1	3:AD:92:LEU:HD21	2.44	0.47
2:AC:71:ARG:O	2:AC:74:ILE:HG22	2.13	0.47
23:DB:1666:G:OP1	32:DK:66:LYS:HD2	2.14	0.47
25:DC:12:ARG:HB2	25:DC:20:ASN:HA	1.96	0.47
11:CL:82:ARG:HG2	11:CL:82:ARG:HH11	1.79	0.47
23:BB:346:A:H5'	23:BB:346:A:N3	2.30	0.47
29:BG:42:VAL:HG12	29:BG:51:PHE:HD1	1.78	0.47
23:BB:1438:U:O2'	23:BB:1439:A:H5'	2.14	0.47
16:CQ:58:VAL:HB	16:CQ:74:LEU:CD2	2.43	0.47
23:DB:1515:A:H5'	23:DB:1557:C:C5'	2.44	0.47
6:CG:94:ARG:HG2	6:CG:98:LEU:HD11	1.95	0.47
48:B1:31:GLU:H	48:B1:32:LYS:NZ	2.12	0.47
15:AP:67:ILE:HD11	15:AP:72:ALA:HA	1.95	0.47
29:BG:32:LEU:HD21	29:BG:74:MET:SD	2.54	0.47
30:DH:51:ARG:HG2	30:DH:51:ARG:NH1	2.27	0.47
28:DF:163:GLU:HG2	28:DF:166:ARG:NH1	2.28	0.47
1:CA:470:C:H2'	1:CA:471:U:H6	1.79	0.47
22:BA:103:U:H4'	34:BM:136:MET:HE2	1.96	0.47
23:BB:835:C:H5'	50:B3:50:SER:HB3	1.95	0.47
1:CA:1527:U:OP2	21:CU:38:GLU:HG3	2.15	0.47
25:DC:162:GLN:HE21	25:DC:174:ARG:NH2	2.12	0.47
16:AQ:43:LEU:HD21	16:AQ:72:TRP:CE2	2.48	0.47
23:BB:2893:A:H4'	23:BB:2894:G:H5'	1.96	0.47
1:AA:528:C:H41	11:AL:45:ASN:CG	2.17	0.47
23:BB:2350:C:O2'	23:BB:2351:G:H5'	2.13	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:113:G:H1'	1:CA:354:G:H5'	1.96	0.47
23:DB:2845:U:H2'	23:DB:2846:G:C8	2.49	0.47
23:DB:1027:A:H2	23:DB:2488:G:H4'	1.79	0.47
23:DB:263:G:H2'	23:DB:264:C:O4'	2.14	0.47
23:DB:1957:C:H2'	23:DB:1958:C:C6	2.49	0.47
23:DB:1599:U:H2'	23:DB:1600:C:C6	2.48	0.47
1:CA:893:C:H2'	1:CA:894:G:C8	2.49	0.47
7:AH:34:ALA:HB1	7:AH:109:VAL:HG21	1.95	0.47
55:BB:3339:HOH:O	27:BE:81:GLY:HA2	2.14	0.47
1:CA:340:U:H2'	1:CA:341:C:H6	1.78	0.47
1:CA:803:G:H2'	1:CA:804:U:C6	2.49	0.47
23:DB:1567:G:H5''	25:DC:84:PRO:HG3	1.96	0.47
23:BB:1633:G:O2'	23:BB:1634:A:H5''	2.14	0.47
9:AJ:48:ARG:HG2	9:AJ:48:ARG:HH11	1.77	0.47
1:AA:790:A:N1	1:AA:1497:G:H5''	2.29	0.47
23:BB:812:C:H4'	38:BQ:12:ARG:HH22	1.79	0.47
19:CT:54:GLN:N	19:CT:55:PRO:HD2	2.30	0.47
28:BF:39:VAL:O	28:BF:39:VAL:HG12	2.14	0.47
25:DC:42:ARG:HE	25:DC:42:ARG:CA	2.27	0.47
2:CC:123:LEU:HD23	2:CC:195:ILE:HD12	1.96	0.47
23:DB:2868:A:H2'	23:DB:2869:G:H8	1.78	0.47
37:DP:27:VAL:HG21	37:DP:84:SER:O	2.14	0.47
27:DE:48:THR:HG23	27:DE:85:PHE:N	2.29	0.47
42:BU:35:VAL:C	42:BU:36:GLU:HG2	2.34	0.47
36:DO:15:ARG:HH12	43:DW:76:ARG:CD	2.27	0.47
25:BC:66:PHE:O	25:BC:68:ARG:N	2.47	0.47
23:BB:160:A:H2'	23:BB:161:A:C8	2.49	0.47
30:DH:6:LEU:HB2	30:DH:35:LYS:CB	2.43	0.47
47:D0:41:HIS:CE1	47:D0:42:ILE:HG22	2.49	0.47
25:DC:61:TYR:CE1	25:DC:63:ILE:HD11	2.49	0.47
18:AS:40:PHE:HB3	18:AS:43:MET:HG3	1.96	0.47
23:BB:338:G:N2	23:BB:339:U:H1'	2.29	0.47
23:BB:2393:U:O2'	23:BB:2394:C:H5'	2.15	0.47
23:BB:640:C:H1'	50:B3:44:ARG:HH21	1.80	0.47
33:BL:55:MET:N	33:BL:56:PRO:CD	2.78	0.47
33:BL:61:LEU:O	33:BL:62:PRO:O	2.32	0.47
15:AP:42:ILE:CB	15:AP:46:LYS:HD2	2.29	0.47
23:BB:399:U:OP2	46:BZ:49:ARG:NH1	2.48	0.47
46:DZ:49:ARG:CZ	46:DZ:49:ARG:HB2	2.45	0.47
23:BB:2615:U:C4	47:B0:2:VAL:O	2.68	0.47
23:BB:2572:A:OP1	26:BD:151:THR:CG2	2.62	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:116:LYS:N	26:DD:116:LYS:HD2	2.28	0.47
33:BL:25:SER:HB3	33:BL:27:LEU:HG	1.97	0.47
39:DR:18:GLN:CA	39:DR:99:THR:HA	2.44	0.47
35:BN:44:LEU:HD23	35:BN:113:ILE:CG1	2.37	0.47
23:BB:1131:G:H1'	31:BJ:85:LYS:NZ	2.28	0.47
13:AN:84:ARG:HH11	13:AN:84:ARG:HG3	1.80	0.47
27:BE:118:LEU:HD11	27:BE:187:VAL:HG12	1.96	0.47
27:BE:159:LEU:HD23	27:BE:159:LEU:O	2.15	0.47
3:CD:171:GLU:HG3	3:CD:182:LYS:CG	2.45	0.47
26:DD:35:THR:HB	26:DD:48:ILE:CG1	2.44	0.47
37:DP:100:ARG:HH11	37:DP:100:ARG:CB	2.17	0.47
41:BT:40:LYS:HE3	41:BT:59:ASN:HA	1.96	0.47
41:BT:86:THR:C	41:BT:87:LEU:HD22	2.35	0.47
26:BD:119:ALA:HA	26:BD:123:LYS:HZ3	1.78	0.47
26:BD:129:THR:O	26:BD:130:GLN:CB	2.62	0.47
9:CJ:51:VAL:O	9:CJ:62:ARG:HA	2.14	0.47
1:AA:1504:G:H4'	1:AA:1505:G:N9	2.29	0.47
23:DB:2052:A:H5'	26:DD:146:ILE:O	2.14	0.47
23:DB:832:U:H2'	23:DB:833:A:C8	2.49	0.47
1:CA:719:C:O2'	17:CR:37:LYS:HD3	2.15	0.47
23:BB:2647:U:O2'	23:BB:2648:G:H5'	2.14	0.47
23:DB:1814:G:C5'	25:DC:51:ARG:HG2	2.44	0.47
5:AF:63:ASN:HD22	5:AF:96:VAL:HB	1.79	0.47
8:CI:7:GLY:HA3	8:CI:81:GLY:O	2.14	0.47
2:AC:141:MET:HE1	2:AC:147:GLY:N	2.18	0.47
23:BB:702:U:H2'	23:BB:703:U:C6	2.49	0.47
3:CD:15:GLY:HA2	3:CD:34:GLU:HB2	1.97	0.47
32:DK:19:VAL:C	32:DK:41:ILE:HD11	2.34	0.47
32:DK:7:MET:SD	32:DK:20:MET:HB2	2.55	0.47
31:DJ:14:ASP:HB3	31:DJ:16:TYR:HD1	1.79	0.47
1:CA:954:G:H2'	1:CA:955:U:C6	2.50	0.47
1:AA:1469:C:H2'	1:AA:1470:U:O4'	2.15	0.47
9:CJ:40:ILE:HD11	9:CJ:73:LEU:HB3	1.97	0.47
16:CQ:13:SER:CB	16:CQ:21:VAL:HB	2.41	0.47
26:BD:61:THR:H	26:BD:62:LYS:HE3	1.78	0.47
23:DB:52:A:C5	23:DB:118:A:C2	3.02	0.47
31:BJ:46:PRO:O	31:BJ:48:VAL:N	2.43	0.47
4:CE:114:LEU:HB3	4:CE:119:VAL:HB	1.96	0.47
23:BB:675:A:OP1	27:BE:58:LYS:HG2	2.14	0.47
23:DB:545:U:H2'	23:DB:547:A:OP1	2.15	0.47
16:CQ:8:GLN:HA	16:CQ:59:GLU:HA	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CO:26:VAL:HG12	14:CO:30:LEU:HD12	1.96	0.47
1:CA:36:C:O2'	1:CA:37:U:H5'	2.15	0.47
2:AC:111:ASP:OD2	2:AC:114:LEU:HG	2.14	0.47
1:AA:878:A:H1'	7:AH:3:GLN:HE22	1.79	0.47
1:CA:1060:U:OP1	9:CJ:53:ILE:HD11	2.15	0.47
35:DN:107:ASN:ND2	40:DS:40:ASN:HD22	2.10	0.47
31:BJ:113:PRO:O	31:BJ:115:GLY:N	2.44	0.47
20:AB:113:LEU:O	20:AB:113:LEU:HD23	2.15	0.47
1:CA:1524:C:H2'	1:CA:1525:G:H8	1.78	0.47
12:AM:89:ARG:HH11	12:AM:94:LEU:HD13	1.79	0.47
45:DY:50:VAL:HG12	45:DY:53:MET:HG2	1.96	0.47
30:BH:132:PHE:CB	30:BH:140:ALA:HB3	2.44	0.47
23:BB:1847:A:H4'	23:BB:1848:A:H8	1.78	0.47
23:DB:1561:C:H2'	23:DB:1562:U:C6	2.49	0.47
23:BB:1328:A:H2'	23:BB:1330:C:C4	2.50	0.47
2:AC:40:GLN:HE22	2:AC:44:LYS:HD2	1.80	0.47
20:AB:95:TRP:CZ3	20:AB:171:ALA:HA	2.49	0.47
23:BB:806:C:H2'	23:BB:807:U:C6	2.50	0.47
23:BB:2757:A:N3	23:BB:2757:A:H2'	2.28	0.47
4:AE:150:GLU:C	4:AE:152:VAL:H	2.17	0.47
2:CC:155:ARG:NH2	2:CC:160:GLU:HA	2.29	0.47
30:DH:42:LYS:O	30:DH:45:GLU:HB3	2.14	0.47
23:BB:2222:C:O2'	23:BB:2223:G:H5'	2.14	0.47
4:AE:40:ASP:C	4:AE:42:ASN:H	2.17	0.47
12:AM:109:LYS:HG3	12:AM:110:GLY:H	1.78	0.47
23:DB:825:A:H2'	23:DB:826:U:O4'	2.14	0.47
23:BB:2344:U:H4'	23:BB:2345:G:OP1	2.14	0.47
17:CR:25:ILE:HD12	17:CR:25:ILE:O	2.15	0.47
35:BN:106:ASP:O	35:BN:108:ALA:N	2.47	0.47
23:BB:1239:G:H2'	23:BB:1240:U:C6	2.50	0.47
23:DB:2383:G:N7	50:D3:35:LYS:HD3	2.30	0.47
1:AA:699:C:C3'	1:AA:700:G:H5''	2.44	0.47
42:BU:11:ILE:HG22	42:BU:12:VAL:N	2.30	0.47
23:BB:2845:U:H5''	37:BP:54:LEU:HA	1.96	0.47
43:DW:66:VAL:HG13	43:DW:67:LYS:N	2.24	0.47
25:BC:155:ARG:HB3	25:BC:159:THR:HG21	1.95	0.47
47:D0:36:LYS:HG3	47:D0:40:HIS:O	2.14	0.47
23:DB:2815:C:H2'	23:DB:2816:G:H8	1.79	0.47
23:DB:2834:G:H2'	23:DB:2879:A:H61	1.78	0.47
23:DB:1818:U:H5''	25:DC:155:ARG:CG	2.44	0.47
25:DC:86:ARG:C	25:DC:155:ARG:NH1	2.68	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:22:VAL:HG12	43:BW:23:LYS:H	1.79	0.47
39:DR:79:ARG:CD	39:DR:81:LYS:HG3	2.44	0.47
1:AA:1014:A:C2	1:AA:1219:A:H1'	2.50	0.47
1:AA:985:C:H2'	1:AA:986:U:C6	2.49	0.47
18:AS:51:HIS:HB2	18:AS:56:HIS:CE1	2.50	0.47
33:BL:62:PRO:HB3	50:B3:24:LYS:HE2	1.95	0.47
46:BZ:30:HIS:HB2	46:BZ:48:GLN:HB3	1.96	0.47
46:BZ:50:ASP:HA	46:BZ:53:THR:CG2	2.44	0.47
34:BM:116:ALA:HA	34:BM:119:LEU:HD23	1.97	0.47
38:BQ:33:VAL:O	38:BQ:34:ALA:C	2.53	0.47
23:DB:137:U:H2'	23:DB:138:U:H5'	1.96	0.47
9:AJ:37:ARG:HB2	9:AJ:77:VAL:HG11	1.97	0.47
45:BY:54:VAL:HG22	45:BY:55:LYS:N	2.24	0.47
35:BN:33:ILE:HG22	35:BN:113:ILE:O	2.14	0.47
40:BS:71:VAL:HG22	40:BS:107:VAL:CG1	2.32	0.47
23:BB:2331:G:H21	23:BB:2336:A:H8	1.62	0.47
23:DB:2270:A:H4'	43:DW:18:LYS:CB	2.44	0.47
3:AD:116:LEU:HB3	3:AD:122:ILE:HD11	1.97	0.47
41:BT:30:ILE:CG2	41:BT:32:LEU:HD13	2.44	0.47
21:CU:4:LYS:O	21:CU:5:VAL:HG23	2.14	0.47
27:DE:4:VAL:HA	27:DE:14:VAL:CG2	2.45	0.47
26:DD:129:THR:O	26:DD:130:GLN:CB	2.62	0.47
23:DB:1657:U:OP1	26:DD:141:ARG:HB2	2.14	0.47
27:BE:73:ILE:O	27:BE:73:ILE:HG22	2.15	0.47
25:DC:224:MET:HG3	25:DC:233:GLY:CA	2.45	0.47
44:DX:18:LEU:H	44:DX:18:LEU:CD2	2.14	0.47
26:BD:37:VAL:HG22	26:BD:46:ARG:CD	2.44	0.47
28:DF:36:ASN:ND2	28:DF:87:LYS:H	2.12	0.47
39:DR:47:VAL:HG13	39:DR:49:ILE:H	1.80	0.47
8:CI:74:GLN:O	8:CI:78:ILE:HG13	2.14	0.47
31:DJ:25:LEU:H	31:DJ:25:LEU:HD22	1.79	0.47
48:B1:15:GLY:CA	48:B1:47:ILE:HD12	2.44	0.47
48:B1:47:ILE:HG13	48:B1:48:TYR:H	1.77	0.47
6:AG:19:SER:HB2	6:AG:21:LEU:HD21	1.96	0.47
25:BC:22:GLU:HA	25:BC:202:ARG:NH1	2.29	0.47
33:DL:118:THR:C	33:DL:120:VAL:N	2.64	0.47
23:BB:2014:A:H4'	40:BS:93:ALA:CB	2.45	0.47
1:CA:1086:U:H3	1:CA:1099:G:N2	2.03	0.47
23:BB:1175:A:H2'	23:BB:1176:U:H5'	1.95	0.47
49:D2:18:PHE:O	49:D2:22:MET:N	2.45	0.47
52:DI:17:ALA:O	52:DI:18:ASN:HB3	2.14	0.47

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:H8	1.73	0.47
37:BP:106:ALA:O	37:BP:108:ARG:HD2	2.14	0.47
23:DB:2680:U:C5'	26:DD:194:PRO:HA	2.44	0.47
34:DM:133:LYS:HD2	34:DM:134:THR:N	2.29	0.47
11:CL:86:VAL:CG1	11:CL:89:LEU:HD23	2.44	0.47
1:AA:1002:G:N3	1:AA:1002:G:H2'	2.29	0.47
23:BB:2880:C:O2	35:BN:93:GLY:HA3	2.14	0.47
4:AE:84:VAL:HG22	4:AE:85:LYS:N	2.28	0.47
23:BB:1827:U:O2'	23:BB:1828:G:H5'	2.14	0.47
28:DF:41:GLU:H	28:DF:45:ASP:HB3	1.79	0.47
28:BF:93:GLU:OE1	28:BF:94:ARG:N	2.47	0.47
40:DS:72:THR:HG23	40:DS:73:LYS:N	2.29	0.47
23:BB:716:A:C3'	23:BB:717:C:H5''	2.44	0.47
22:DA:23:G:N2	22:DA:24:G:H1	2.12	0.47
1:CA:470:C:O2'	1:CA:471:U:H5'	2.14	0.47
1:AA:831:A:O2'	1:AA:832:G:H5'	2.15	0.47
4:CE:67:ARG:HH11	4:CE:67:ARG:CB	2.26	0.47
21:CU:48:LYS:C	21:CU:48:LYS:HD2	2.35	0.47
20:CB:172:ILE:CD1	20:CB:182:VAL:HG11	2.45	0.47
30:BH:96:THR:HB	30:BH:112:LYS:HB2	1.97	0.47
2:CC:52:SER:HB3	2:CC:114:LEU:HD11	1.95	0.47
34:DM:96:ILE:HG22	34:DM:97:GLN:HE22	1.78	0.47
13:AN:17:ASP:HA	13:AN:21:ALA:HB3	1.95	0.47
1:CA:333:U:H2'	1:CA:334:C:C6	2.49	0.47
15:CP:52:LEU:HD11	15:CP:74:LEU:HD13	1.95	0.47
24:BV:53:LYS:CE	24:BV:55:GLU:HG3	2.45	0.47
52:BI:48:ILE:O	52:BI:49:GLU:HB3	2.14	0.47
20:CB:80:LYS:HA	20:CB:90:PHE:CE1	2.48	0.47
22:BA:15:A:H1'	22:BA:109:A:N7	2.30	0.47
1:AA:1257:A:H2'	1:AA:1257:A:N3	2.28	0.47
23:DB:687:C:H1'	49:D2:4:THR:HG22	1.97	0.47
23:DB:1109:C:O2'	23:DB:1110:G:H5'	2.15	0.47
2:CC:37:LYS:O	2:CC:40:GLN:HG2	2.14	0.47
1:CA:987:G:H2'	1:CA:988:G:H8	1.79	0.47
23:DB:2630:G:H2'	23:DB:2631:G:C8	2.50	0.47
23:DB:1633:G:O2'	23:DB:1634:A:H5''	2.14	0.47
34:DM:8:LYS:HG2	34:DM:9:PHE:N	2.28	0.47
23:BB:2828:G:O2'	23:BB:2829:A:H5'	2.14	0.47
23:DB:82:U:H5''	23:DB:296:U:H5''	1.96	0.47
1:AA:49:U:O2'	1:AA:50:A:H2'	2.15	0.47
46:DZ:33:ASN:HB3	46:DZ:46:GLY:HA2	1.96	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:563:A:H2'	1:CA:567:G:C8	2.50	0.47
23:BB:671:C:OP1	33:BL:48:ARG:NH1	2.48	0.47
21:CU:8:ASN:HB2	21:CU:9:GLU:CD	2.34	0.47
23:DB:2331:G:H21	23:DB:2336:A:H8	1.62	0.47
23:BB:2205:A:H2'	23:BB:2206:C:C6	2.49	0.47
47:D0:29:VAL:HB	47:D0:34:GLY:CA	2.44	0.47
25:DC:86:ARG:O	25:DC:88:ALA:N	2.47	0.47
23:BB:299:A:N6	23:BB:322:A:H1'	2.30	0.47
27:DE:115:GLN:HG3	27:DE:116:ASP:N	2.27	0.47
50:B3:24:LYS:CE	50:B3:29:ARG:HH22	2.27	0.47
26:DD:119:ALA:CB	26:DD:165:MET:HG2	2.44	0.47
36:DO:92:PHE:HE2	36:DO:94:ARG:HE	1.62	0.47
23:BB:1188:U:O2'	23:BB:1189:A:H5'	2.14	0.47
31:DJ:44:TYR:HD1	31:DJ:45:THR:H	1.51	0.47
38:DQ:72:GLY:O	38:DQ:73:ILE:HG22	2.14	0.47
20:CB:96:LEU:HB2	20:CB:99:MET:HG3	1.96	0.47
43:BW:17:ALA:O	43:BW:35:ILE:HA	2.15	0.47
23:BB:142:A:O2'	41:BT:2:ILE:HG21	2.14	0.47
41:BT:63:VAL:CG1	41:BT:80:TRP:HB2	2.45	0.47
47:D0:12:ARG:HH21	47:D0:16:ARG:HG3	1.80	0.47
36:DO:65:THR:HB	36:DO:66:GLY:H	1.56	0.47
23:DB:159:G:O2'	23:DB:160:A:H5''	2.15	0.47
26:BD:41:ALA:O	26:BD:42:ASN:HB3	2.15	0.47
23:DB:928:A:O2'	23:DB:929:U:H5'	2.15	0.47
1:AA:1409:C:N4	1:AA:1491:G:N1	2.50	0.47
1:AA:1110:A:C2'	1:AA:1111:A:H5'	2.44	0.47
1:CA:1250:A:H2'	1:CA:1251:A:H8	1.79	0.47
7:AH:111:THR:HG23	7:AH:114:ALA:CB	2.45	0.47
1:CA:1301:U:O2'	1:CA:1302:C:P	2.72	0.47
6:AG:112:ASP:CB	6:AG:118:ARG:HG2	2.39	0.47
15:CP:61:VAL:CA	15:CP:65:ALA:HB3	2.44	0.47
52:DI:72:THR:HG23	52:DI:112:LYS:HD2	1.97	0.47
37:BP:94:ALA:HB3	37:BP:99:LEU:HD13	1.96	0.47
11:AL:24:GLU:HB3	11:AL:26:CYS:SG	2.54	0.47
32:BK:64:ARG:HB3	32:BK:79:PHE:HB2	1.97	0.47
1:AA:947:G:H2'	1:AA:948:C:C6	2.49	0.47
10:CK:70:ALA:HB1	10:CK:74:LYS:CD	2.41	0.47
9:AJ:39:PRO:HB3	9:AJ:74:VAL:HG22	1.96	0.47
23:DB:580:U:O3'	38:DQ:30:VAL:HG13	2.14	0.47
1:AA:1250:A:H4'	8:AI:69:GLY:N	2.24	0.47
11:CL:82:ARG:NH2	11:CL:95:HIS:ND1	2.63	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CT:31:ILE:HD13	19:CT:74:HIS:CE1	2.49	0.47
27:DE:21:ARG:NH1	27:DE:23:PHE:HB3	2.24	0.47
23:BB:423:A:H5'	23:BB:424:G:H5'	1.96	0.47
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.49	0.47
1:AA:472:U:N3	1:AA:473:U:C4	2.82	0.47
41:BT:64:LYS:HZ3	41:BT:79:ASP:HB2	1.80	0.47
22:DA:64:G:H2'	22:DA:65:U:C6	2.49	0.47
1:CA:202:G:H1'	1:CA:468:A:H8	1.79	0.47
20:AB:113:LEU:HD12	20:AB:143:LEU:HB3	1.97	0.47
23:BB:832:U:H2'	23:BB:833:A:C8	2.49	0.47
12:CM:47:LEU:HD23	12:CM:47:LEU:N	2.29	0.47
28:BF:16:MET:O	28:BF:20:ASN:HA	2.14	0.47
23:BB:956:G:C1'	34:BM:81:ARG:HH22	2.27	0.47
6:CG:55:LYS:HB3	6:CG:59:GLU:CD	2.35	0.47
1:CA:589:U:O2'	1:CA:590:U:H5'	2.14	0.47
20:AB:162:VAL:O	20:AB:184:ALA:HA	2.15	0.47
44:DX:49:ASP:HA	44:DX:52:ARG:HH12	1.79	0.47
1:AA:86:G:H4'	1:AA:86:G:OP1	2.13	0.47
15:AP:33:ILE:HD12	15:AP:33:ILE:H	1.80	0.47
23:BB:1882:U:O2'	23:BB:1883:U:H5'	2.14	0.47
1:CA:512:U:H2'	1:CA:513:C:C6	2.49	0.47
1:CA:152:A:N6	1:CA:170:U:C2	2.82	0.47
15:AP:76:LYS:HD2	15:AP:80:LYS:HD2	1.97	0.47
22:BA:42:C:H4'	28:BF:63:LYS:O	2.13	0.47
7:CH:50:VAL:HG13	7:CH:50:VAL:O	2.15	0.47
22:BA:58:A:H2'	22:BA:59:A:O4'	2.14	0.47
6:AG:47:GLU:OE1	6:AG:47:GLU:HA	2.13	0.47
47:D0:24:VAL:O	47:D0:24:VAL:HG12	2.15	0.47
23:BB:859:G:O2'	23:BB:860:U:OP2	2.33	0.47
1:CA:792:A:H1'	1:CA:794:A:N7	2.29	0.47
27:DE:46:GLN:NE2	27:DE:48:THR:HB	2.29	0.47
44:DX:28:LEU:HD22	44:DX:42:LEU:HG	1.95	0.47
42:BU:8:ASP:HB3	42:BU:25:LYS:HE2	1.95	0.47
42:BU:13:LEU:CD2	42:BU:14:THR:H	2.28	0.47
37:BP:8:GLU:HA	37:BP:11:GLN:HG2	1.95	0.47
37:BP:4:ILE:O	37:BP:7:LEU:HB3	2.15	0.47
23:DB:2386:A:C4'	43:DW:38:ARG:HB2	2.44	0.47
43:DW:42:THR:HB	43:DW:75:ASN:HB3	1.94	0.47
25:DC:163:ILE:C	25:DC:164:VAL:HG22	2.34	0.47
23:DB:2810:A:H2'	23:DB:2811:G:O4'	2.15	0.47
26:DD:46:ARG:CA	26:DD:82:PHE:HA	2.44	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:8:C:O2'	23:DB:9:G:H5'	2.15	0.47
31:BJ:72:LYS:HG3	31:BJ:90:GLU:HG3	1.97	0.47
22:BA:113:C:H2'	22:BA:114:C:O4'	2.14	0.47
38:DQ:47:ARG:HH12	38:DQ:50:ARG:CG	2.27	0.47
23:BB:636:G:N7	33:BL:109:LYS:HE2	2.30	0.47
33:BL:82:LEU:CD2	33:BL:92:LEU:HD12	2.44	0.47
33:BL:77:ILE:HA	33:BL:101:ILE:CD1	2.45	0.47
23:BB:2616:C:H2'	23:BB:2617:U:H6	1.79	0.47
23:BB:2052:A:N9	26:BD:155:VAL:HG23	2.29	0.47
13:AN:60:ARG:CD	13:AN:60:ARG:H	2.15	0.47
1:AA:979:C:H2'	1:AA:980:C:O4'	2.14	0.47
25:BC:53:ILE:HG12	25:BC:218:THR:HA	1.96	0.47
41:DT:55:VAL:CG2	41:DT:86:THR:H	2.28	0.47
23:BB:2041:U:H2'	23:BB:2042:A:H8	1.73	0.47
31:DJ:4:PHE:CD1	31:DJ:5:THR:N	2.83	0.47
23:DB:852:U:H2'	23:DB:853:C:H6	1.79	0.47
35:BN:32:GLU:HA	35:BN:115:LEU:HD21	1.95	0.47
28:BF:35:LEU:HD12	28:BF:35:LEU:N	2.30	0.47
34:DM:44:ARG:HB2	34:DM:91:TYR:HE2	1.80	0.47
38:BQ:95:ALA:C	38:BQ:97:ILE:N	2.67	0.47
40:BS:33:LEU:HB3	40:BS:37:THR:HB	1.96	0.47
43:BW:11:ASN:HD22	43:BW:13:ARG:NH2	2.13	0.47
27:BE:143:LEU:HB3	27:BE:146:VAL:HG21	1.95	0.47
27:BE:148:ILE:HG22	27:BE:185:LYS:H	1.80	0.47
27:BE:6:LYS:HE3	27:BE:118:LEU:HB2	1.96	0.47
27:BE:149:ILE:HG12	27:BE:186:VAL:HG22	1.97	0.47
43:DW:18:LYS:NZ	43:DW:18:LYS:HB2	2.30	0.47
51:B4:22:VAL:HG11	51:B4:36:ARG:CZ	2.44	0.47
23:DB:2637:U:C2'	23:DB:2638:G:H5'	2.44	0.47
26:DD:34:VAL:HG11	26:DD:50:VAL:HG23	1.97	0.47
26:DD:73:VAL:HB	26:DD:91:THR:CB	2.44	0.47
37:DP:4:ILE:O	37:DP:4:ILE:HG22	2.15	0.47
30:DH:94:ILE:HG23	30:DH:98:ASP:CG	2.35	0.47
22:DA:50:A:OP1	36:DO:68:LYS:HB2	2.15	0.47
23:BB:2051:A:H5'	26:BD:145:SER:HB3	1.97	0.47
9:CJ:55:PRO:O	9:CJ:56:HIS:HB3	2.14	0.47
3:CD:57:LYS:HD3	3:CD:58:GLN:N	2.29	0.47
23:DB:356:G:O2'	23:DB:357:C:H5'	2.14	0.47
50:D3:29:ARG:O	50:D3:31:ILE:N	2.48	0.47
50:D3:29:ARG:O	50:D3:30:HIS:C	2.53	0.47
33:DL:61:LEU:N	33:DL:62:PRO:CD	2.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1656:C:H5''	26:DD:141:ARG:HB3	1.96	0.47
26:DD:122:VAL:HA	26:DD:128:ARG:HD2	1.96	0.47
44:DX:47:ARG:HE	44:DX:47:ARG:HA	1.79	0.47
44:DX:23:ARG:O	44:DX:26:PHE:HB2	2.14	0.47
44:DX:27:ASN:C	44:DX:29:ARG:H	2.18	0.47
23:BB:2786:U:H4'	26:BD:66:GLY:HA2	1.96	0.47
26:BD:37:VAL:HG23	26:BD:42:ASN:ND2	2.30	0.47
26:BD:83:ARG:HG2	26:BD:84:LEU:H	1.80	0.47
13:CN:45:LEU:C	13:CN:47:LEU:H	2.18	0.47
28:DF:34:THR:O	28:DF:35:LEU:HD23	2.15	0.47
45:DY:1:ALA:H2	45:DY:43:ILE:HB	1.80	0.47
45:DY:6:ILE:HG12	45:DY:35:VAL:O	2.15	0.47
38:DQ:82:LEU:HD12	38:DQ:112:ALA:HB2	1.95	0.47
39:DR:49:ILE:HG13	39:DR:51:VAL:CG2	2.42	0.47
17:AR:64:LEU:HB2	17:AR:66:LEU:HG	1.97	0.47
12:CM:21:ILE:HB	12:CM:24:VAL:HG22	1.95	0.47
31:DJ:93:ILE:HG22	31:DJ:93:ILE:O	2.15	0.47
1:AA:1423:G:H2'	1:AA:1424:U:O4'	2.14	0.47
1:CA:1009:U:H1'	1:CA:1021:A:C6	2.50	0.47
19:AT:70:LYS:HZ3	19:AT:70:LYS:HB2	1.78	0.47
29:BG:22:VAL:HG23	29:BG:33:THR:HG23	1.97	0.47
14:AO:84:LEU:HD22	14:AO:86:LEU:HD11	1.96	0.47
23:BB:1651:G:H4'	35:BN:39:PRO:HG2	1.97	0.47
1:AA:36:C:O2'	1:AA:37:U:H5'	2.15	0.47
23:BB:1083:U:H1'	23:BB:1086:A:N6	2.30	0.47
23:DB:2309:A:C6	23:DB:2310:C:N4	2.83	0.47
45:BY:3:THR:HG21	45:BY:43:ILE:HB	1.95	0.47
1:CA:1238:A:N3	1:CA:1241:G:H1'	2.30	0.47
2:AC:100:ILE:O	2:AC:100:ILE:HG23	2.14	0.47
23:DB:1666:G:C2'	23:DB:1667:G:H5'	2.45	0.47
29:DG:37:ASN:N	29:DG:40:VAL:HG21	2.29	0.47
1:AA:1348:U:H4'	8:AI:121:ARG:NH1	2.29	0.47
2:CC:66:THR:HG23	2:CC:101:ASN:HB2	1.97	0.47
1:CA:60:A:H1'	1:CA:61:G:O4'	2.14	0.47
5:CF:55:HIS:N	5:CF:55:HIS:ND1	2.62	0.47
9:AJ:87:LEU:HB3	9:AJ:88:MET:CE	2.45	0.47
23:BB:2801:G:H2'	23:BB:2802:G:C8	2.49	0.47
52:DI:12:VAL:HG13	52:DI:41:PHE:CE2	2.50	0.47
3:AD:113:ALA:O	3:AD:117:VAL:HG23	2.15	0.47
23:BB:2810:A:H2'	23:BB:2811:G:O4'	2.15	0.47
30:BH:72:ILE:O	30:BH:72:ILE:HG23	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1246:A:H2'	1:AA:1247:U:O4'	2.15	0.47
23:DB:1824:G:H2'	23:DB:1825:U:C6	2.50	0.47
23:BB:459:U:H5'	49:B2:41:ARG:NE	2.27	0.47
23:DB:1241:A:O4'	23:DB:1241:A:N3	2.48	0.47
1:AA:923:A:H2'	1:AA:924:C:H6	1.79	0.47
1:AA:963:G:H21	9:AJ:56:HIS:CE1	2.33	0.47
19:CT:78:LEU:O	19:CT:82:ILE:HG23	2.14	0.47
35:DN:12:ARG:N	35:DN:12:ARG:HD3	2.29	0.47
35:DN:56:LYS:HG3	35:DN:57:THR:N	2.27	0.47
48:B1:33:LEU:O	48:B1:33:LEU:HD12	2.14	0.47
25:BC:248:GLY:C	25:BC:250:GLN:H	2.18	0.47
15:AP:6:LEU:HB3	15:AP:17:TYR:HB3	1.96	0.47
23:DB:2247:A:O2'	23:DB:2248:C:H5'	2.15	0.47
1:AA:470:C:O2'	1:AA:471:U:H5'	2.14	0.47
39:DR:92:TRP:HE3	39:DR:93:PHE:N	2.13	0.47
23:BB:282:A:H2'	23:BB:283:G:H8	1.76	0.47
1:CA:397:A:H5'	1:CA:398:U:OP1	2.13	0.47
1:AA:202:G:H1'	1:AA:468:A:H8	1.79	0.47
23:DB:2760:C:H2'	23:DB:2760:C:O2	2.13	0.47
2:CC:151:GLU:HG3	2:CC:166:TRP:HB2	1.97	0.47
23:BB:41:C:O2'	23:BB:42:A:H5'	2.13	0.47
23:BB:1351:C:H2'	23:BB:1352:U:C6	2.50	0.47
22:BA:30:C:H2'	22:BA:30:C:O2	2.15	0.47
1:CA:1144:G:N2	1:CA:1146:A:H62	2.12	0.47
23:DB:1683:U:H2'	23:DB:1684:G:H8	1.80	0.47
23:DB:967:U:H2'	23:DB:968:C:H6	1.78	0.47
1:AA:957:U:O2	1:AA:959:A:H8	1.98	0.47
6:CG:61:PHE:O	6:CG:62:GLU:C	2.51	0.47
23:BB:1706:C:C2	23:BB:1757:A:H5'	2.49	0.47
10:AK:36:ARG:HG2	10:AK:37:GLN:N	2.30	0.47
25:DC:136:VAL:O	25:DC:138:SER:N	2.48	0.47
23:DB:105:C:H2'	23:DB:106:C:C6	2.50	0.47
1:AA:620:C:N1	3:AD:131:ILE:HD13	2.29	0.47
23:BB:1707:G:H2'	23:BB:1708:C:H6	1.79	0.47
1:CA:1432:G:OP1	37:DP:105:LYS:HB2	2.15	0.47
23:BB:2862:G:H2'	23:BB:2863:C:H6	1.79	0.47
23:DB:2773:C:O2'	23:DB:2774:C:H5'	2.15	0.47
1:AA:824:G:O2'	1:AA:825:A:H5'	2.14	0.47
24:BV:53:LYS:HD2	24:BV:54:ALA:N	2.29	0.47
2:AC:166:TRP:O	2:AC:167:TYR:HB2	2.14	0.47
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1544:A:H2'	23:DB:1545:A:C8	2.49	0.47
1:CA:392:C:C2	1:CA:393:A:C8	3.03	0.47
31:DJ:11:VAL:O	31:DJ:11:VAL:HG22	2.13	0.47
8:AI:66:VAL:HG22	8:AI:67:LYS:N	2.30	0.47
1:AA:647:C:O2'	1:AA:648:A:H5'	2.14	0.47
23:BB:2756:U:H1'	23:BB:2757:A:H5''	1.97	0.47
23:BB:2630:G:H2'	23:BB:2631:G:C8	2.50	0.47
23:BB:1511:G:H2'	23:BB:1512:C:C6	2.50	0.47
1:AA:940:C:H2'	1:AA:941:G:H8	1.80	0.47
23:DB:1511:G:H2'	23:DB:1512:C:C6	2.50	0.47
11:AL:30:ARG:HB3	11:AL:57:THR:CG2	2.45	0.47
25:DC:42:ARG:NE	25:DC:42:ARG:HA	2.30	0.47
28:DF:37:MET:HB2	28:DF:86:CYS:SG	2.53	0.47
10:AK:21:HIS:CE1	10:AK:34:THR:HG21	2.50	0.47
23:BB:32:C:H2'	23:BB:33:C:H5''	1.96	0.47
23:BB:1919:A:H2'	23:BB:1920:C:H5'	1.97	0.47
25:BC:38:LYS:HD3	25:BC:39:SER:O	2.14	0.47
1:CA:1381:U:O2'	6:CG:78:ARG:HB3	2.15	0.47
1:AA:792:A:H1'	1:AA:794:A:N7	2.30	0.47
23:BB:2192:U:H2'	23:BB:2193:G:O4'	2.15	0.47
1:AA:563:A:H2'	1:AA:567:G:C8	2.50	0.47
23:BB:1720:U:O2'	23:BB:1721:G:H5'	2.15	0.47
23:BB:825:A:H2'	23:BB:826:U:O4'	2.14	0.47
2:AC:134:LYS:O	2:AC:138:GLN:HB2	2.14	0.47
1:CA:932:C:H2'	1:CA:933:G:C8	2.50	0.47
22:DA:82:U:H5''	45:DY:16:LEU:CD1	2.44	0.47
47:D0:29:VAL:HG22	47:D0:30:ASP:N	2.28	0.47
47:D0:36:LYS:HG2	47:D0:37:HIS:O	2.15	0.47
18:AS:51:HIS:HA	18:AS:55:GLN:O	2.15	0.47
30:BH:6:LEU:HD21	30:BH:50:ARG:HD3	1.97	0.47
27:DE:142:ALA:C	27:DE:143:LEU:HD13	2.34	0.47
27:DE:147:LEU:HB3	27:DE:167:VAL:HG22	1.96	0.47
33:BL:119:PRO:O	33:BL:119:PRO:CD	2.62	0.47
23:BB:2081:U:C5'	46:BZ:23:LYS:HD2	2.44	0.47
46:DZ:1:MET:HA	46:DZ:9:TYR:CG	2.50	0.47
16:AQ:10:ARG:CZ	16:AQ:56:ASP:H	2.27	0.47
23:DB:143:C:H2'	23:DB:144:A:C8	2.50	0.47
46:DZ:59:ARG:O	46:DZ:61:ASN:N	2.41	0.47
1:AA:408:A:H3'	1:AA:409:U:C6	2.47	0.47
41:DT:21:SER:O	41:DT:24:MET:HB2	2.15	0.47
41:DT:62:VAL:O	41:DT:63:VAL:HB	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:528:A:N1	23:BB:2043:C:C5'	2.78	0.47
8:AI:64:ILE:HG22	8:AI:65:THR:N	2.30	0.47
23:BB:1010:A:N3	23:BB:1153:C:H1'	2.29	0.47
31:BJ:12:LYS:HZ2	31:BJ:41:LYS:HG3	1.79	0.47
39:BR:70:GLU:O	39:BR:71:LYS:HB2	2.14	0.47
10:AK:83:VAL:HG22	10:AK:106:ILE:HD11	1.97	0.47
28:DF:32:LYS:CB	28:DF:91:ARG:HB3	2.33	0.47
33:DL:142:ILE:HG12	33:DL:144:GLU:OE1	2.15	0.47
41:BT:24:MET:HE3	41:BT:29:THR:H	1.79	0.47
1:AA:926:G:H3'	1:AA:1505:G:H21	1.80	0.47
33:DL:59:ARG:O	33:DL:60:ARG:HD2	2.14	0.47
23:DB:1060:U:OP1	52:DI:75:ALA:HB3	2.15	0.47
25:DC:226:PRO:HG3	25:DC:232:GLY:C	2.35	0.47
1:CA:719:C:O2'	17:CR:37:LYS:HB2	2.15	0.47
25:DC:52:HIS:O	25:DC:53:ILE:HD12	2.15	0.47
3:CD:25:ARG:CB	3:CD:25:ARG:HH11	2.19	0.47
8:CI:56:MET:O	8:CI:58:GLU:HG2	2.14	0.47
1:CA:1300:G:C2'	1:CA:1301:U:OP2	2.62	0.47
1:CA:1301:U:O2'	1:CA:1302:C:OP1	2.25	0.47
1:AA:836:G:H2'	1:AA:837:U:H6	1.79	0.47
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.50	0.47
2:CC:178:ARG:HG2	2:CC:205:GLU:O	2.15	0.47
23:BB:1081:U:H5'	52:BI:126:ARG:HD2	1.96	0.47
28:DF:39:VAL:HG13	28:DF:84:ILE:CB	2.45	0.47
2:AC:38:VAL:O	2:AC:42:LEU:HD23	2.15	0.47
42:DU:15:GLY:C	42:DU:17:ASP:H	2.18	0.47
1:CA:1085:U:H3'	1:CA:1086:U:C6	2.50	0.47
49:D2:18:PHE:CE2	49:D2:44:VAL:HB	2.50	0.47
39:BR:59:ILE:HG13	39:BR:59:ILE:O	2.14	0.47
25:BC:3:VAL:HG12	25:BC:4:LYS:N	2.24	0.47
17:CR:59:LYS:O	17:CR:63:TYR:HD2	1.97	0.47
23:BB:2800:A:N3	23:BB:2801:G:H1'	2.30	0.47
52:DI:45:THR:O	52:DI:48:ILE:HG22	2.14	0.47
21:CU:41:THR:O	21:CU:45:LYS:HB2	2.15	0.47
4:CE:113:VAL:HG21	4:CE:139:THR:HG21	1.96	0.47
11:CL:81:ILE:HD13	11:CL:96:THR:HG22	1.96	0.47
23:BB:1789:A:OP1	25:BC:219:VAL:HG12	2.14	0.47
23:DB:2462:C:H2'	23:DB:2463:C:C6	2.49	0.47
1:AA:1281:C:C5'	1:AA:1282:C:H5	2.27	0.47
1:AA:1260:G:OP1	1:AA:1284:C:H4'	2.14	0.47
4:AE:104:ILE:HG23	4:AE:111:ARG:HH12	1.80	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2597:G:OP1	25:DC:239:PHE:CG	2.68	0.47
1:AA:411:A:OP2	3:AD:25:ARG:NH2	2.47	0.47
3:AD:25:ARG:CD	3:AD:26:ALA:H	2.24	0.47
11:CL:35:ARG:NE	11:CL:36:VAL:H	2.13	0.47
23:BB:213:A:H2'	23:BB:214:G:C8	2.50	0.47
29:DG:23:ILE:O	29:DG:33:THR:HA	2.14	0.47
1:AA:1300:G:O2'	1:AA:1301:U:P	2.73	0.47
23:BB:309:A:H1'	23:BB:329:G:N3	2.30	0.47
23:BB:1367:A:H2'	23:BB:1368:G:H5'	1.95	0.47
50:D3:25:HIS:O	50:D3:27:ASN:N	2.48	0.47
23:DB:1351:C:H2'	23:DB:1352:U:C6	2.49	0.47
1:CA:382:A:O2'	1:CA:383:A:H5'	2.15	0.47
23:BB:189:G:P	46:BZ:12:ILE:HG21	2.55	0.47
11:AL:49:ARG:HH12	11:AL:88:ASP:CB	2.27	0.47
1:CA:476:U:O2'	1:CA:477:C:H5'	2.14	0.47
23:BB:1750:G:H2'	23:BB:1751:U:C6	2.50	0.47
1:AA:357:G:OP1	1:AA:367:U:H6	1.98	0.47
1:AA:392:C:C2	1:AA:393:A:C8	3.02	0.47
1:AA:893:C:H2'	1:AA:894:G:C8	2.49	0.47
15:AP:73:ALA:HB1	15:AP:77:GLU:OE2	2.15	0.47
23:DB:1332:G:N3	23:DB:1332:G:H2'	2.29	0.47
1:CA:1229:A:H2'	1:CA:1230:C:H6	1.79	0.47
20:AB:22:TRP:CG	20:AB:23:ASN:N	2.82	0.47
1:CA:890:G:O2'	1:CA:906:A:N6	2.48	0.47
39:BR:31:GLU:O	39:BR:32:THR:HB	2.15	0.47
23:BB:1775:U:H2'	23:BB:1776:G:O4'	2.14	0.47
23:DB:2710:C:H2'	23:DB:2711:A:H8	1.80	0.47
23:DB:2864:G:H2'	23:DB:2865:U:C6	2.49	0.47
1:CA:284:C:H2'	1:CA:285:C:H6	1.79	0.47
9:CJ:7:ARG:HD2	9:CJ:101:SER:OG	2.14	0.47
23:DB:1541:C:H2'	23:DB:1542:U:C6	2.50	0.47
26:DD:112:THR:HB	26:DD:167:ASN:O	2.14	0.47
52:DI:69:VAL:HG23	52:DI:69:VAL:O	2.15	0.47
1:CA:434:U:H2'	1:CA:434:U:O2	2.14	0.47
7:CH:107:LYS:HB3	7:CH:107:LYS:NZ	2.30	0.47
23:BB:1424:G:H2'	23:BB:1425:G:O4'	2.15	0.47
37:DP:65:ASN:H	37:DP:71:ARG:CA	2.27	0.47
34:BM:3:GLN:C	34:BM:5:LYS:N	2.66	0.47
23:DB:5:A:H2'	23:DB:6:A:C8	2.50	0.47
36:BO:26:LEU:HG	36:BO:39:VAL:HG22	1.96	0.47
27:DE:123:LYS:NZ	27:DE:158:PHE:HA	2.30	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:169:VAL:HG22	27:DE:171:ASP:H	1.80	0.47
50:B3:24:LYS:NZ	50:B3:29:ARG:HH12	2.13	0.47
34:BM:116:ALA:O	34:BM:119:LEU:HD23	2.15	0.47
23:BB:2023:C:H4'	23:BB:2617:U:O3'	2.15	0.47
23:DB:2722:G:H2'	23:DB:2723:C:C6	2.49	0.47
36:DO:35:ILE:CG2	36:DO:74:VAL:HG21	2.44	0.47
33:BL:39:LYS:HB2	33:BL:46:VAL:HG13	1.96	0.47
41:DT:40:LYS:HE3	41:DT:59:ASN:O	2.14	0.47
23:BB:527:C:C4	23:BB:2779:U:H2'	2.50	0.47
23:BB:2773:C:O2'	23:BB:2774:C:H5'	2.15	0.47
12:AM:16:ILE:HG23	12:AM:17:ALA:N	2.30	0.47
26:DD:50:VAL:HG13	26:DD:77:ARG:O	2.14	0.47
30:DH:88:GLY:O	30:DH:124:THR:HA	2.15	0.47
18:CS:14:LEU:HD12	18:CS:15:LEU:N	2.30	0.47
23:BB:125:A:H4'	49:B2:13:ASN:CG	2.34	0.47
44:BX:22:LEU:CD2	44:BX:25:GLN:HB3	2.45	0.47
23:DB:2733:A:H3'	23:DB:2733:A:C8	2.50	0.47
25:DC:52:HIS:O	25:DC:53:ILE:CB	2.61	0.47
25:BC:224:MET:HB3	25:BC:233:GLY:H	1.80	0.47
38:DQ:82:LEU:HG	38:DQ:88:GLU:CG	2.45	0.47
1:AA:1112:C:O2	2:AC:178:ARG:N	2.48	0.47
34:DM:62:LYS:H	34:DM:104:GLU:CB	2.22	0.47
1:AA:263:A:P	19:AT:73:ARG:HH22	2.38	0.47
19:AT:57:VAL:HG12	19:AT:57:VAL:O	2.15	0.47
15:CP:53:ASP:O	15:CP:57:ILE:HG22	2.14	0.47
28:DF:56:LEU:HD13	28:DF:88:VAL:HG21	1.97	0.47
2:AC:76:ILE:O	2:AC:83:VAL:HG23	2.14	0.47
2:AC:90:VAL:HA	2:AC:93:ILE:CG2	2.44	0.47
30:BH:121:VAL:HG11	30:BH:128:HIS:CD2	2.49	0.47
23:DB:1665:A:H5''	32:DK:66:LYS:HB3	1.97	0.47
29:DG:10:VAL:HG11	29:DG:44:HIS:CE1	2.50	0.47
31:DJ:120:ARG:C	31:DJ:121:LYS:HE3	2.35	0.47
23:DB:2801:G:H2'	23:DB:2802:G:C8	2.50	0.47
1:CA:1225:A:H5'	12:CM:101:THR:HG1	1.80	0.47
12:CM:95:PRO:CD	12:CM:108:ARG:HG2	2.45	0.47
23:DB:543:G:C2'	23:DB:545:U:OP1	2.63	0.47
23:DB:599:A:O2'	23:DB:600:G:H5'	2.15	0.47
52:BI:83:ALA:N	52:BI:100:ILE:HD11	2.29	0.47
23:BB:55:G:H2'	23:BB:56:A:C8	2.50	0.47
14:CO:23:SER:HB3	14:CO:26:VAL:CG2	2.45	0.47
24:DV:65:VAL:O	24:DV:66:ASP:HB3	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:103:ARG:O	35:DN:104:ALA:HB3	2.15	0.47
29:BG:32:LEU:HD21	29:BG:74:MET:HB3	1.97	0.47
23:BB:2038:G:H2'	23:BB:2039:U:C6	2.49	0.47
1:AA:768:A:H4'	1:AA:1523:G:N2	2.30	0.47
29:DG:25:ILE:CD1	29:DG:75:VAL:HG22	2.45	0.47
1:CA:695:A:H5'	10:CK:52:ARG:NH2	2.28	0.47
20:CB:199:ILE:O	20:CB:199:ILE:HG13	2.15	0.47
23:BB:599:A:O2'	23:BB:600:G:H5'	2.15	0.47
23:DB:962:G:O2'	23:DB:963:U:H5'	2.15	0.47
1:AA:1117:A:H4'	8:AI:105:ARG:NH1	2.30	0.47
29:DG:8:VAL:HG12	29:DG:49:LEU:HD12	1.96	0.47
23:DB:1355:G:O2'	23:DB:1356:G:H5'	2.14	0.47
28:DF:177:ARG:O	28:DF:178:LYS:HB2	2.15	0.47
1:AA:1226:C:P	12:AM:89:ARG:HH12	2.37	0.47
23:BB:664:G:O2'	23:BB:665:U:H5'	2.15	0.47
17:CR:20:ILE:O	17:CR:20:ILE:HG12	2.15	0.47
23:DB:1009:A:H5'	38:DQ:58:GLN:HE21	1.80	0.47
23:BB:1710:G:O2'	23:BB:1711:A:H5'	2.14	0.47
23:DB:1710:G:O2'	23:DB:1711:A:H5'	2.14	0.47
23:BB:2519:U:H5'	23:BB:2567:G:N2	2.30	0.47
23:BB:236:C:O2'	23:BB:237:C:H5'	2.14	0.47
1:CA:197:A:H4'	1:CA:198:G:O5'	2.15	0.47
32:BK:73:ASP:OD1	32:BK:74:GLY:N	2.48	0.47
1:CA:252:U:H2'	1:CA:253:A:C8	2.49	0.47
1:CA:647:C:O2'	1:CA:648:A:H5'	2.15	0.47
29:BG:126:THR:C	29:BG:128:THR:H	2.17	0.47
23:DB:1882:U:O2'	23:DB:1883:U:H5'	2.14	0.47
23:DB:2093:G:O2'	23:DB:2094:A:H5'	2.14	0.47
3:AD:54:LEU:O	3:AD:57:LYS:HB3	2.14	0.47
38:DQ:116:LEU:H	38:DQ:116:LEU:HD22	1.79	0.47
3:AD:71:PHE:HA	3:AD:74:TYR:HD2	1.80	0.47
23:DB:1427:A:H4'	23:DB:1428:C:O4'	2.14	0.47
34:BM:103:TYR:O	34:BM:105:MET:N	2.48	0.47
23:DB:129:C:H4'	23:DB:1348:C:O2'	2.15	0.47
23:DB:1720:U:O2'	23:DB:1721:G:H5'	2.15	0.47
23:BB:2603:G:O2'	23:BB:2604:U:H5'	2.15	0.47
1:AA:513:C:H2'	1:AA:514:C:H6	1.79	0.47
1:AA:803:G:H2'	1:AA:804:U:C6	2.50	0.47
20:AB:15:PHE:HD1	20:AB:16:GLY:H	1.63	0.47
23:DB:1098:A:O5'	52:DI:3:LYS:CG	2.63	0.47
23:BB:661:A:O2'	33:BL:23:ILE:HG23	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:26:ALA:C	30:DH:28:ASN:H	2.16	0.47
35:DN:96:ARG:HG2	35:DN:96:ARG:HH11	1.79	0.47
31:BJ:63:ALA:HA	31:BJ:69:ARG:HD3	1.97	0.47
30:BH:30:LEU:HD13	30:BH:35:LYS:HD3	1.97	0.47
23:DB:299:A:H2	23:DB:319:G:N3	2.13	0.47
46:BZ:49:ARG:O	46:BZ:51:VAL:HG23	2.14	0.47
32:BK:99:ILE:N	32:BK:99:ILE:HD12	2.30	0.47
34:BM:21:ALA:O	34:BM:96:ILE:HG13	2.15	0.47
16:AQ:79:GLU:HG3	16:AQ:80:LYS:N	2.31	0.47
41:DT:68:LYS:HB2	41:DT:68:LYS:HZ2	1.77	0.47
40:DS:7:HIS:NE2	40:DS:10:ALA:HA	2.29	0.47
35:BN:49:GLU:O	35:BN:52:ILE:HB	2.15	0.47
39:BR:5:PHE:HB3	39:BR:12:HIS:CG	2.50	0.47
47:B0:42:ILE:HD11	47:B0:44:ALA:HB3	1.97	0.47
23:DB:1199:U:C2	23:DB:1200:C:C5	3.03	0.47
23:BB:535:G:H3'	55:BB:3420:HOH:O	2.15	0.47
23:BB:2822:G:N7	35:BN:1:MET:N	2.58	0.47
26:BD:122:VAL:CB	26:BD:141:ARG:HH12	2.28	0.47
20:AB:9:LEU:HD22	20:AB:10:LYS:N	2.30	0.47
1:AA:1212:U:H5'	1:AA:1213:A:O4'	2.15	0.47
26:BD:29:VAL:HG12	26:BD:185:ASN:ND2	2.30	0.47
26:BD:45:TYR:CE2	26:BD:83:ARG:HG3	2.50	0.47
34:DM:33:LEU:CD2	34:DM:124:LEU:HB2	2.44	0.47
37:DP:59:THR:HG1	37:DP:76:HIS:CG	2.33	0.47
1:AA:1111:A:C2	2:AC:176:THR:HG23	2.50	0.47
11:AL:35:ARG:CA	11:AL:35:ARG:HE	2.23	0.47
1:CA:840:C:N3	1:CA:842:U:H4'	2.30	0.47
35:BN:103:ARG:HB2	35:BN:110:MET:SD	2.55	0.47
23:BB:2299:U:H2'	23:BB:2300:C:C6	2.50	0.47
42:DU:72:PHE:CD2	42:DU:74:ALA:HB3	2.50	0.47
44:BX:38:GLN:HG2	44:BX:39:GLN:N	2.29	0.47
2:AC:53:ARG:HG2	2:AC:54:ILE:N	2.26	0.47
36:BO:84:GLU:OE1	36:BO:85:LYS:HG3	2.14	0.47
32:DK:20:MET:C	32:DK:41:ILE:HD12	2.34	0.47
30:DH:68:ARG:HD3	30:DH:71:LYS:HD3	1.97	0.47
1:CA:948:C:OP1	12:CM:105:ALA:HA	2.14	0.47
23:BB:327:G:H2'	23:BB:328:U:C6	2.50	0.47
52:BI:29:GLN:HA	52:BI:29:GLN:HE21	1.80	0.47
18:AS:69:LYS:O	18:AS:72:GLU:HB2	2.15	0.47
23:DB:2071:A:H2'	23:DB:2072:C:H6	1.76	0.47
25:DC:12:ARG:HH11	25:DC:18:VAL:CB	2.28	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:589:U:O2'	1:AA:590:U:H5'	2.14	0.47
23:BB:1515:A:H5'	23:BB:1557:C:C5'	2.44	0.47
4:CE:45:VAL:O	4:CE:71:ILE:HG22	2.14	0.47
38:BQ:20:ALA:O	38:BQ:22:GLY:N	2.48	0.47
2:AC:115:VAL:CG1	2:AC:137:VAL:HG13	2.44	0.47
23:DB:1409:U:O2'	23:DB:1410:G:H5'	2.15	0.47
23:BB:764:A:OP2	25:BC:213:ARG:NH2	2.47	0.47
2:CC:127:VAL:HB	2:CC:128:MET:CE	2.45	0.47
4:AE:105:ILE:HB	4:AE:123:LEU:CA	2.44	0.47
48:B1:31:GLU:O	48:B1:33:LEU:HG	2.15	0.47
15:AP:67:ILE:CD1	15:AP:72:ALA:HA	2.45	0.47
1:AA:413:G:H5'	1:AA:414:A:OP1	2.14	0.47
5:AF:51:ILE:O	5:AF:51:ILE:HG23	2.15	0.47
6:CG:100:MET:O	6:CG:104:VAL:HG23	2.14	0.47
6:CG:29:LEU:HD12	6:CG:42:VAL:HG22	1.96	0.47
23:DB:962:G:O2'	23:DB:2250:G:N2	2.48	0.47
23:BB:2543:G:H2'	23:BB:2544:G:C8	2.50	0.47
23:BB:173:A:H2'	23:BB:174:U:H6	1.80	0.47
1:AA:108:G:C6	19:AT:9:ARG:HG2	2.50	0.47
22:BA:105:G:O2'	22:BA:106:G:H5'	2.15	0.47
41:BT:48:GLN:HG3	41:BT:49:LYS:N	2.30	0.47
23:DB:346:A:N7	23:DB:347:A:H1'	2.30	0.47
1:CA:992:U:H1'	1:CA:993:G:C2	2.49	0.47
50:B3:56:LEU:O	50:B3:57:VAL:HB	2.15	0.47
19:AT:34:VAL:HG11	19:AT:78:LEU:HD13	1.97	0.47
23:DB:802:A:H4'	55:DB:3289:HOH:O	2.15	0.47
23:BB:657:U:H2'	23:BB:658:U:C6	2.50	0.47
8:AI:66:VAL:HG21	8:AI:74:GLN:HG3	1.97	0.47
23:DB:657:U:H2'	23:DB:658:U:C6	2.50	0.47
27:DE:88:ARG:HB3	27:DE:89:PRO:HD2	1.97	0.47
23:DB:2300:C:H2'	23:DB:2301:C:H6	1.79	0.47
1:AA:284:C:H2'	1:AA:285:C:H6	1.79	0.47
1:AA:652:U:H1'	1:AA:653:U:C5	2.50	0.47
44:BX:36:GLN:O	44:BX:37:LEU:HD23	2.15	0.47
11:AL:58:ASN:H	11:AL:58:ASN:ND2	2.12	0.47
1:AA:1406:U:H3'	1:AA:1407:C:H6	1.79	0.47
23:DB:902:C:O2'	23:DB:903:C:H5'	2.15	0.47
3:CD:13:ARG:HG3	3:CD:13:ARG:O	2.15	0.47
23:BB:778:G:H5"	25:BC:48:ILE:HD12	1.97	0.46
25:BC:160:TYR:HA	25:BC:193:GLU:HG2	1.96	0.46
47:D0:32:THR:HG21	47:D0:41:HIS:CE1	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:58:LEU:HA	43:BW:79:ILE:CG2	2.45	0.46
23:DB:533:G:N3	38:DQ:40:LYS:HG2	2.30	0.46
27:DE:153:LEU:HD23	27:DE:172:ALA:N	2.31	0.46
46:BZ:8:LYS:CD	46:BZ:9:TYR:N	2.70	0.46
48:D1:15:GLY:HA3	48:D1:47:ILE:CG2	2.44	0.46
24:BV:82:TYR:CB	34:BM:36:VAL:HG12	2.45	0.46
24:DV:69:GLU:O	24:DV:70:ILE:HG23	2.15	0.46
16:AQ:10:ARG:CA	16:AQ:10:ARG:NE	2.77	0.46
11:AL:1:ALA:HB1	11:AL:5:GLN:HB2	1.98	0.46
23:DB:64:A:H5'	41:DT:76:ARG:HD2	1.95	0.46
23:BB:1156:A:N6	38:BQ:47:ARG:HD2	2.30	0.46
40:DS:7:HIS:NE2	40:DS:46:LEU:HD22	2.30	0.46
23:BB:528:A:C6	23:BB:2042:A:H2'	2.46	0.46
8:AI:18:VAL:HG13	8:AI:64:ILE:HG12	1.96	0.46
31:DJ:43:GLU:CA	38:DQ:63:ARG:HH12	2.28	0.46
35:BN:27:SER:OG	35:BN:34:ILE:HG21	2.15	0.46
34:DM:4:PRO:HB2	34:DM:69:PRO:CG	2.45	0.46
38:BQ:92:LYS:HD3	38:BQ:92:LYS:C	2.35	0.46
27:BE:173:THR:O	27:BE:175:ILE:HG22	2.14	0.46
27:BE:149:ILE:HD11	27:BE:186:VAL:HG13	1.97	0.46
13:CN:10:VAL:HG12	13:CN:11:LYS:NZ	2.30	0.46
33:DL:123:ARG:HA	33:DL:142:ILE:CA	2.45	0.46
33:DL:108:ALA:HB3	33:DL:125:LEU:HB3	1.97	0.46
23:BB:135:U:H2'	23:BB:136:G:N9	2.29	0.46
8:CI:115:VAL:HG21	9:CJ:62:ARG:HG3	1.97	0.46
23:DB:356:G:H2'	23:DB:357:C:H6	1.80	0.46
23:DB:358:U:H2'	23:DB:359:G:H8	1.77	0.46
23:DB:2420:C:H3'	50:D3:31:ILE:HG22	1.96	0.46
23:DB:1997:C:H5'	26:DD:128:ARG:NH2	2.29	0.46
23:BB:1257:C:H5'	27:BE:78:TRP:CH2	2.49	0.46
23:BB:2769:U:O2'	23:BB:2770:G:H5'	2.16	0.46
31:DJ:100:VAL:HG13	31:DJ:101:ILE:HG12	1.96	0.46
42:DU:90:LYS:O	42:DU:91:LYS:HB2	2.16	0.46
3:AD:196:GLU:HA	3:AD:199:ILE:HD12	1.97	0.46
48:D1:7:LYS:HA	48:D1:26:LYS:HA	1.97	0.46
7:CH:46:GLU:N	7:CH:63:LYS:HE3	2.30	0.46
9:AJ:73:LEU:O	9:AJ:74:VAL:HB	2.15	0.46
12:CM:105:ALA:O	12:CM:109:LYS:HG3	2.15	0.46
1:AA:1432:G:C5'	37:BP:106:ALA:HB2	2.44	0.46
34:BM:108:VAL:O	34:BM:112:LEU:HD13	2.15	0.46
1:CA:1226:C:N4	12:CM:102:LYS:HZ3	2.12	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:34:LYS:HB3	50:B3:35:LYS:NZ	2.30	0.46
23:DB:957:C:O2'	23:DB:958:U:H5''	2.14	0.46
20:CB:18:GLN:HB2	20:CB:188:THR:OG1	2.14	0.46
1:CA:279:A:H5'	1:CA:281:G:O4'	2.15	0.46
9:CJ:65:TYR:HB3	13:CN:95:LEU:HD11	1.96	0.46
23:BB:1409:U:O2'	23:BB:1410:G:H5'	2.15	0.46
40:DS:4:ILE:HG12	40:DS:106:VAL:HG12	1.97	0.46
7:AH:69:ALA:HB3	7:AH:72:GLU:OE2	2.15	0.46
7:AH:64:TYR:CA	7:AH:70:VAL:HG23	2.44	0.46
40:BS:24:ILE:HD13	40:BS:36:LEU:HD11	1.97	0.46
3:AD:24:VAL:HG23	3:AD:25:ARG:HD2	1.96	0.46
1:CA:831:A:O2'	1:CA:832:G:H5'	2.15	0.46
1:CA:472:U:N3	1:CA:473:U:C4	2.82	0.46
23:BB:241:A:OP1	23:BB:241:A:H8	1.98	0.46
36:BO:66:GLY:O	36:BO:67:ASN:ND2	2.48	0.46
23:BB:2378:A:C2'	23:BB:2379:G:H5'	2.43	0.46
25:DC:77:VAL:HG23	25:DC:113:ASP:HB2	1.97	0.46
23:BB:6:A:O2'	23:BB:7:G:H5'	2.15	0.46
12:AM:70:ARG:NE	28:BF:112:ASP:OD2	2.49	0.46
1:CA:601:G:H2'	1:CA:602:A:C8	2.50	0.46
36:DO:86:GLY:C	36:DO:88:LYS:H	2.17	0.46
13:AN:14:ALA:O	13:AN:18:LYS:HG2	2.15	0.46
1:CA:1028:C:H2'	1:CA:1029:U:C6	2.49	0.46
1:AA:1456:A:H2'	1:AA:1457:G:O4'	2.16	0.46
23:DB:1048:A:C5	23:DB:1111:A:C2	3.03	0.46
52:DI:37:PHE:CE1	52:DI:58:ILE:HD11	2.50	0.46
1:AA:601:G:H2'	1:AA:602:A:H8	1.80	0.46
1:AA:216:U:H2'	1:AA:217:C:C6	2.50	0.46
28:DF:79:ARG:HB2	28:DF:82:TYR:CZ	2.50	0.46
1:CA:216:U:H2'	1:CA:217:C:C6	2.50	0.46
23:BB:1029:A:H2'	23:BB:1030:C:O4'	2.15	0.46
1:AA:455:G:H2'	1:AA:456:A:C8	2.51	0.46
1:AA:691:G:H1'	1:AA:696:A:N6	2.30	0.46
25:DC:38:LYS:O	25:DC:60:ALA:HA	2.14	0.46
23:DB:1999:C:O2'	23:DB:2000:C:H5'	2.15	0.46
23:BB:946:C:H2'	23:BB:947:A:H8	1.80	0.46
23:DB:2300:C:H2'	23:DB:2301:C:C6	2.51	0.46
11:AL:89:LEU:HD22	11:AL:89:LEU:N	2.30	0.46
1:CA:1363:A:H2'	1:CA:1363:A:N3	2.30	0.46
2:CC:13:ILE:HG13	2:CC:177:LEU:HB3	1.98	0.46
14:AO:17:ASP:HB2	14:AO:18:ALA:H	1.57	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1669:A:H2'	23:DB:1669:A:N3	2.31	0.46
10:CK:127:ARG:HH11	10:CK:127:ARG:HG3	1.79	0.46
13:AN:72:PHE:CE2	13:AN:77:GLY:HA2	2.50	0.46
23:DB:1936:A:H2	23:DB:1943:U:C5	2.33	0.46
1:AA:909:A:H2'	1:AA:910:C:O4'	2.14	0.46
36:BO:57:ALA:HB3	36:BO:62:LEU:HA	1.97	0.46
23:BB:443:A:H5''	27:BE:44:ARG:HH12	1.80	0.46
37:BP:29:VAL:O	37:BP:30:TRP:C	2.53	0.46
43:DW:33:GLY:O	43:DW:66:VAL:HG23	2.15	0.46
25:BC:137:GLY:C	25:BC:139:THR:H	2.18	0.46
23:DB:1820:U:O2'	25:DC:157:ALA:HB3	2.15	0.46
31:BJ:102:GLU:OE2	31:BJ:124:VAL:HG11	2.16	0.46
43:BW:23:LYS:HG3	43:BW:24:ARG:N	2.30	0.46
39:DR:76:LYS:O	39:DR:77:PHE:HB2	2.15	0.46
32:BK:98:ARG:HA	32:BK:118:LEU:CD2	2.45	0.46
23:DB:2090:A:H2'	46:DZ:49:ARG:CZ	2.45	0.46
23:BB:1190:G:OP1	33:BL:41:ARG:NE	2.48	0.46
39:BR:90:ARG:HH12	39:BR:91:GLN:C	2.18	0.46
25:BC:53:ILE:HG21	25:BC:218:THR:HG23	1.95	0.46
35:BN:45:ARG:N	35:BN:45:ARG:HD2	2.30	0.46
25:BC:32:LEU:HD13	25:BC:61:TYR:CE1	2.50	0.46
25:BC:59:GLN:HB3	25:BC:60:ALA:H	1.51	0.46
38:BQ:85:ALA:HB3	38:BQ:88:GLU:O	2.15	0.46
23:BB:2263:C:H2'	23:BB:2264:C:C6	2.50	0.46
3:CD:59:LYS:O	3:CD:63:ILE:HG22	2.15	0.46
30:DH:83:LYS:O	30:DH:90:LEU:HA	2.14	0.46
33:DL:89:VAL:HG13	33:DL:89:VAL:O	2.16	0.46
10:AK:126:ARG:CB	21:AU:33:ARG:HD2	2.39	0.46
23:DB:286:U:H2'	23:DB:287:G:C8	2.51	0.46
23:DB:2515:C:H2'	23:DB:2516:A:H8	1.81	0.46
23:BB:2733:A:H3'	23:BB:2733:A:C8	2.50	0.46
45:DY:2:LYS:N	45:DY:37:ARG:HB2	2.30	0.46
37:DP:54:LEU:N	37:DP:58:PHE:HD1	2.13	0.46
1:CA:1368:A:O2'	1:CA:1369:C:H5'	2.15	0.46
37:DP:38:ARG:CG	37:DP:39:LEU:N	2.75	0.46
19:CT:67:HIS:CG	19:CT:68:LYS:H	2.31	0.46
23:DB:2502:G:H5'	23:DB:2503:A:C5'	2.36	0.46
1:CA:782:A:H2'	1:CA:783:C:O4'	2.14	0.46
40:BS:89:ALA:O	40:BS:90:LYS:HD2	2.16	0.46
36:BO:6:ALA:HB1	36:BO:10:ARG:NH1	2.30	0.46
1:AA:239:U:H5''	1:AA:239:U:H6	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:D1:13:SER:HB3	48:D1:49:LYS:HZ3	1.79	0.46
44:DX:4:LYS:HG3	44:DX:7:ARG:HE	1.81	0.46
35:DN:8:ARG:HD2	35:DN:46:ARG:CZ	2.44	0.46
9:AJ:88:MET:HB2	9:AJ:89:ARG:HH22	1.81	0.46
52:BI:21:PRO:CB	52:BI:22:PRO:HD3	2.42	0.46
16:CQ:44:HIS:HB2	16:CQ:69:THR:O	2.15	0.46
30:BH:73:ASN:C	30:BH:75:LEU:H	2.19	0.46
23:DB:2228:G:H2'	23:DB:2229:U:H6	1.77	0.46
38:BQ:105:PHE:O	38:BQ:109:VAL:HG13	2.15	0.46
16:CQ:74:LEU:HD13	16:CQ:74:LEU:C	2.36	0.46
36:DO:21:LEU:CD2	36:DO:22:GLY:H	2.23	0.46
1:CA:547:A:H4'	1:CA:548:G:O5'	2.16	0.46
23:DB:2896:C:H2'	23:DB:2897:U:H6	1.80	0.46
40:DS:41:LYS:HG2	40:DS:43:ALA:HB3	1.97	0.46
23:DB:448:U:O4'	23:DB:448:U:OP2	2.34	0.46
22:DA:13:G:C2'	22:DA:14:U:H5''	2.45	0.46
20:AB:115:ASP:O	20:AB:119:GLN:HG2	2.15	0.46
24:BV:66:ASP:C	24:BV:68:LYS:H	2.18	0.46
27:BE:27:LEU:HD13	27:BE:27:LEU:C	2.36	0.46
23:BB:834:G:H2'	23:BB:835:C:H6	1.79	0.46
23:BB:2477:U:H4'	23:BB:2479:U:O4	2.16	0.46
1:AA:676:A:H1'	10:AK:116:PRO:HB3	1.96	0.46
1:AA:1390:U:H2'	1:AA:1391:U:H6	1.79	0.46
1:CA:1118:U:H2'	1:CA:1119:C:C6	2.47	0.46
23:DB:1735:A:H2'	23:DB:1736:U:C6	2.50	0.46
28:BF:115:GLY:HA3	28:BF:177:ARG:N	2.31	0.46
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.30	0.46
23:DB:931:U:N3	23:DB:1166:G:N2	2.63	0.46
23:DB:106:C:H2'	23:DB:107:G:C8	2.51	0.46
23:DB:2700:A:H2'	23:DB:2701:U:C6	2.51	0.46
23:DB:1946:U:C2	23:DB:1947:C:C5	3.03	0.46
1:AA:478:A:H2'	1:AA:479:U:O4'	2.15	0.46
1:AA:393:A:H5'	1:AA:483:C:O2'	2.15	0.46
52:BI:44:LYS:O	52:BI:48:ILE:HG13	2.15	0.46
23:DB:753:A:H2'	23:DB:754:U:H6	1.78	0.46
23:DB:146:A:H2'	23:DB:147:C:H6	1.80	0.46
1:AA:691:G:H2'	1:AA:692:U:C6	2.50	0.46
23:DB:1720:U:C2'	23:DB:1721:G:H5'	2.46	0.46
23:BB:1526:C:H2'	23:BB:1527:G:O4'	2.15	0.46
39:DR:58:VAL:O	39:DR:58:VAL:HG13	2.14	0.46
32:BK:114:LYS:O	32:BK:117:SER:HB3	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:889:A:H61	1:AA:907:A:H3'	1.80	0.46
2:CC:190:THR:HG22	2:CC:191:THR:N	2.31	0.46
1:AA:754:C:H3'	1:AA:754:C:O2	2.15	0.46
49:B2:14:ARG:HD3	49:B2:14:ARG:O	2.14	0.46
41:BT:44:LYS:HB2	41:BT:44:LYS:NZ	2.30	0.46
23:DB:588:U:H5'	33:DL:29:LYS:HZ2	1.81	0.46
1:CA:699:C:C3'	1:CA:700:G:H5''	2.44	0.46
25:BC:128:THR:HA	25:BC:190:THR:CA	2.40	0.46
25:BC:155:ARG:O	25:BC:156:SER:C	2.54	0.46
31:BJ:98:GLU:O	31:BJ:100:VAL:N	2.48	0.46
23:DB:533:G:N2	38:DQ:40:LYS:HD2	2.30	0.46
38:DQ:39:ILE:HG13	38:DQ:40:LYS:H	1.79	0.46
27:DE:143:LEU:HD13	27:DE:185:LYS:HZ2	1.80	0.46
27:DE:161:ALA:HB1	27:DE:168:ASP:O	2.15	0.46
27:DE:184:ASP:HB3	33:DL:13:LYS:HE3	1.97	0.46
23:BB:633:A:H2'	23:BB:634:C:O4'	2.15	0.46
33:BL:78:ARG:NH2	33:BL:110:VAL:HG11	2.30	0.46
34:BM:8:LYS:CE	34:BM:70:ASP:HA	2.44	0.46
26:DD:118:PHE:HA	26:DD:164:GLN:HG2	1.96	0.46
40:BS:103:ILE:HG23	40:BS:104:THR:N	2.29	0.46
8:AI:18:VAL:HG21	8:AI:82:ILE:CG1	2.45	0.46
39:BR:5:PHE:CG	39:BR:6:GLN:N	2.84	0.46
12:AM:3:ILE:HA	12:AM:56:ARG:CG	2.41	0.46
47:B0:35:GLU:HG2	47:B0:36:LYS:N	2.30	0.46
41:BT:12:ARG:HH21	44:BX:29:ARG:CZ	2.28	0.46
1:CA:1342:C:H4'	8:CI:126:PHE:O	2.15	0.46
23:DB:1450:G:N2	23:DB:1452:G:H1	1.95	0.46
10:CK:110:THR:HB	21:CU:3:ILE:O	2.15	0.46
23:DB:27:G:H1'	23:DB:513:A:N6	2.30	0.46
20:AB:9:LEU:H	20:AB:9:LEU:CD1	2.27	0.46
50:D3:12:ARG:CD	50:D3:23:HIS:HB2	2.45	0.46
33:DL:63:LYS:HB2	50:D3:26:ALA:CB	2.43	0.46
23:DB:2025:C:H2'	23:DB:2026:U:H6	1.77	0.46
45:DY:43:ILE:HD13	45:DY:43:ILE:C	2.35	0.46
34:DM:62:LYS:N	34:DM:104:GLU:HB3	2.20	0.46
19:AT:60:GLN:NE2	19:AT:61:ALA:H	2.12	0.46
19:AT:66:ILE:HG23	19:AT:70:LYS:CD	2.45	0.46
1:CA:836:G:O2'	1:CA:837:U:H5'	2.15	0.46
29:BG:17:LYS:O	29:BG:23:ILE:HD12	2.14	0.46
36:BO:16:ARG:CD	36:BO:20:GLU:HG3	2.45	0.46
1:AA:1005:A:H3'	1:AA:1006:G:C8	2.48	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2317:A:N6	23:BB:2318:G:C4	2.83	0.46
23:BB:2320:U:H3'	23:BB:2321:U:C5'	2.46	0.46
36:BO:9:ARG:HG3	36:BO:12:THR:HG21	1.97	0.46
23:BB:1179:G:O2'	23:BB:1180:U:H5'	2.16	0.46
23:BB:1186:G:H2'	23:BB:1187:G:O4'	2.16	0.46
1:CA:60:A:C4'	1:CA:61:G:O5'	2.63	0.46
23:DB:2800:A:C4	23:DB:2801:G:H1'	2.51	0.46
52:DI:16:MET:N	52:DI:42:ASN:OD1	2.49	0.46
1:AA:1243:C:H2'	1:AA:1244:G:C8	2.51	0.46
36:DO:31:THR:HG22	36:DO:33:ARG:H	1.79	0.46
7:CH:74:ILE:O	7:CH:74:ILE:HG23	2.15	0.46
4:CE:43:GLY:O	4:CE:72:ASN:HA	2.15	0.46
25:DC:243:PRO:CB	25:DC:248:GLY:HA2	2.46	0.46
20:AB:61:SER:HA	20:AB:224:ARG:CA	2.43	0.46
1:AA:547:A:H4'	1:AA:548:G:O5'	2.16	0.46
1:AA:279:A:H5'	1:AA:281:G:O4'	2.15	0.46
23:DB:2529:G:C4'	29:DG:175:LYS:HD3	2.46	0.46
1:AA:924:C:H2'	1:AA:925:G:H8	1.81	0.46
1:AA:611:C:H2'	1:AA:612:C:H6	1.80	0.46
25:DC:28:PRO:CG	25:DC:79:ARG:NE	2.76	0.46
23:BB:2199:A:H3'	23:BB:2200:C:H6	1.80	0.46
20:CB:63:LYS:HD2	20:CB:87:ASP:OD2	2.14	0.46
12:CM:47:LEU:HD12	12:CM:51:GLN:HB2	1.98	0.46
8:CI:108:ARG:HG3	8:CI:108:ARG:O	2.15	0.46
1:CA:633:G:H2'	1:CA:634:C:H6	1.81	0.46
16:AQ:26:ARG:HE	16:AQ:39:ARG:NH1	2.14	0.46
23:BB:372:G:O2'	23:BB:373:U:P	2.73	0.46
23:DB:1947:C:O2'	23:DB:1948:G:H5'	2.15	0.46
2:CC:86:LEU:O	2:CC:89:VAL:HG22	2.14	0.46
23:BB:1947:C:O2'	23:BB:1948:G:H5'	2.15	0.46
23:DB:309:A:N3	23:DB:329:G:O2'	2.42	0.46
23:DB:1707:G:H2'	23:DB:1708:C:H6	1.80	0.46
1:AA:598:U:H2'	1:AA:599:C:C6	2.51	0.46
23:DB:131:A:H2'	23:DB:132:G:C8	2.48	0.46
23:DB:1328:A:H2'	23:DB:1330:C:C4	2.50	0.46
6:AG:91:ARG:HD3	6:AG:91:ARG:H	1.80	0.46
16:AQ:65:PRO:HA	16:AQ:71:SER:OG	2.15	0.46
23:BB:1666:G:C2'	23:BB:1667:G:H5'	2.45	0.46
1:AA:252:U:H2'	1:AA:253:A:C8	2.50	0.46
23:DB:39:G:H2'	23:DB:40:U:H6	1.80	0.46
23:BB:2714:G:H2'	23:BB:2715:C:H6	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2299:U:H2'	23:DB:2300:C:H6	1.80	0.46
1:AA:1184:G:C2	1:AA:1185:G:C8	3.03	0.46
14:CO:48:ASP:CG	14:CO:51:SER:HB2	2.35	0.46
23:BB:1541:C:H2'	23:BB:1542:U:C6	2.50	0.46
23:BB:1824:G:H2'	23:BB:1825:U:H6	1.81	0.46
28:DF:69:ALA:HB3	28:DF:81:GLY:H	1.81	0.46
23:DB:1526:C:H2'	23:DB:1527:G:O4'	2.14	0.46
1:CA:49:U:O2'	1:CA:50:A:H2'	2.14	0.46
28:BF:161:SER:HB3	28:BF:164:GLU:HB2	1.97	0.46
1:CA:484:G:O2'	1:CA:485:U:OP2	2.28	0.46
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.50	0.46
1:AA:1050:G:C2'	1:AA:1051:C:H5'	2.44	0.46
25:DC:58:LYS:HG3	25:DC:58:LYS:O	2.15	0.46
48:B1:49:LYS:N	48:B1:49:LYS:HD2	2.30	0.46
1:CA:754:C:H3'	1:CA:754:C:O2	2.15	0.46
51:D4:15:LYS:HB2	51:D4:15:LYS:HE3	1.79	0.46
43:DW:82:GLU:HG3	43:DW:83:ALA:N	2.29	0.46
25:BC:155:ARG:O	25:BC:157:ALA:N	2.48	0.46
23:BB:857:G:H5'	43:BW:55:ASP:OD2	2.15	0.46
23:DB:2616:C:H2'	23:DB:2617:U:H6	1.81	0.46
38:DQ:52:ARG:CG	38:DQ:53:LYS:N	2.79	0.46
33:BL:63:LYS:HB2	50:B3:11:LYS:HZ2	1.80	0.46
34:BM:124:LEU:HD23	34:BM:124:LEU:N	2.31	0.46
24:BV:82:TYR:CD1	34:BM:36:VAL:HB	2.51	0.46
16:AQ:10:ARG:O	16:AQ:22:VAL:HG13	2.15	0.46
23:DB:138:U:H2'	23:DB:140:C:N1	2.30	0.46
3:AD:2:ARG:O	3:AD:3:TYR:HB2	2.15	0.46
8:AI:40:ARG:HA	8:AI:44:ARG:HH21	1.81	0.46
23:DB:870:U:O2'	23:DB:871:U:H5'	2.15	0.46
34:DM:14:LYS:HB3	34:DM:72:PRO:HG3	1.97	0.46
23:BB:1154:G:OP2	38:BQ:57:ARG:NH1	2.49	0.46
31:BJ:45:THR:HB	38:BQ:63:ARG:NH1	2.30	0.46
46:DZ:54:GLY:O	46:DZ:57:VAL:HB	2.15	0.46
27:BE:177:PRO:HA	27:BE:180:LEU:HD12	1.95	0.46
21:AU:20:ARG:CA	21:AU:24:LYS:HG3	2.39	0.46
41:BT:28:ASN:ND2	41:BT:28:ASN:N	2.62	0.46
6:AG:125:ASP:HB3	6:AG:130:LYS:CB	2.35	0.46
23:DB:2648:G:H2'	23:DB:2649:C:H6	1.80	0.46
14:AO:70:LYS:HZ1	14:AO:74:VAL:CG1	2.28	0.46
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.79	0.46
49:B2:30:VAL:O	49:B2:33:ARG:HG3	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:82:MET:HB2	34:BM:84:LYS:CE	2.45	0.46
2:AC:39:ARG:NH1	13:AN:91:GLU:HG2	2.31	0.46
52:DI:78:LEU:HA	52:DI:81:LYS:HE2	1.98	0.46
8:AI:112:ARG:CB	8:AI:112:ARG:HH11	2.27	0.46
1:AA:1201:A:C1'	1:AA:1202:U:OP2	2.58	0.46
23:DB:988:A:OP1	45:DY:10:ARG:HB3	2.15	0.46
48:D1:24:LYS:NZ	48:D1:24:LYS:HB2	2.31	0.46
12:CM:106:ARG:CA	12:CM:106:ARG:HH11	2.28	0.46
19:CT:69:ASN:H	19:CT:69:ASN:HD22	1.60	0.46
11:CL:30:ARG:HG2	11:CL:31:GLY:N	2.30	0.46
1:CA:1434:A:H2'	1:CA:1435:G:C8	2.50	0.46
1:CA:546:A:OP1	3:CD:69:ARG:HB2	2.15	0.46
25:BC:243:PRO:HB2	25:BC:248:GLY:H	1.81	0.46
3:AD:24:VAL:O	3:AD:25:ARG:C	2.53	0.46
1:CA:1190:G:P	2:CC:4:VAL:HG12	2.56	0.46
1:CA:691:G:H2'	1:CA:692:U:C6	2.51	0.46
10:AK:56:LYS:O	10:AK:58:THR:N	2.49	0.46
1:CA:409:U:OP1	3:CD:23:GLY:HA3	2.15	0.46
55:DB:3213:HOH:O	33:DL:41:ARG:HB2	2.14	0.46
1:AA:1382:C:H4'	6:AG:78:ARG:HD2	1.97	0.46
1:AA:1180:A:P	8:AI:98:ARG:HH22	2.38	0.46
46:BZ:59:ARG:HH21	46:BZ:62:LYS:HZ2	1.61	0.46
5:AF:6:ILE:HD12	5:AF:88:MET:O	2.15	0.46
1:AA:619:U:O2	3:AD:129:VAL:HG13	2.15	0.46
23:BB:2699:C:O2'	23:BB:2700:A:H5'	2.16	0.46
23:DB:2699:C:O2'	23:DB:2700:A:H5'	2.15	0.46
1:CA:336:A:O2'	1:CA:337:G:H5'	2.15	0.46
2:AC:59:PRO:HD2	2:AC:62:SER:O	2.15	0.46
10:AK:41:LEU:HB3	10:AK:76:TYR:HE1	1.81	0.46
23:BB:1666:G:O2'	23:BB:1667:G:H5'	2.14	0.46
23:BB:425:G:H2'	23:BB:426:C:C6	2.50	0.46
20:AB:95:TRP:CH2	20:AB:100:LEU:HB2	2.50	0.46
20:AB:100:LEU:O	20:AB:178:LEU:HG	2.16	0.46
11:AL:79:ILE:HD12	11:AL:79:ILE:C	2.35	0.46
6:CG:78:ARG:HH11	6:CG:81:GLY:N	2.12	0.46
11:AL:86:VAL:HG11	11:AL:89:LEU:HD23	1.97	0.46
23:BB:1623:G:O2'	23:BB:1624:U:H5'	2.15	0.46
13:AN:45:LEU:C	13:AN:45:LEU:HD23	2.36	0.46
23:DB:1940:U:H1'	23:DB:1941:C:H5	1.81	0.46
30:BH:89:LYS:HE2	30:BH:89:LYS:CA	2.46	0.46
23:BB:692:C:H2'	23:BB:693:A:H8	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:141:HIS:HB3	25:BC:190:THR:HB	1.97	0.46
26:DD:62:LYS:HB2	26:DD:63:PRO:HD3	1.97	0.46
36:BO:19:GLN:HE21	43:BW:43:LYS:HE3	1.80	0.46
43:BW:75:ASN:HB3	43:BW:76:ARG:H	1.62	0.46
1:AA:1016:A:H5'	1:AA:1218:C:H4'	1.98	0.46
23:DB:322:A:C2	23:DB:340:A:C6	3.03	0.46
27:DE:116:ASP:CG	27:DE:185:LYS:HE2	2.36	0.46
33:BL:120:VAL:HG13	33:BL:120:VAL:O	2.16	0.46
33:BL:59:ARG:NH1	50:B3:51:LYS:HB2	2.31	0.46
46:BZ:5:ILE:CG2	46:BZ:63:ARG:HE	2.27	0.46
46:BZ:58:ASP:CG	46:BZ:63:ARG:HH11	2.19	0.46
23:DB:2091:C:O4'	46:DZ:49:ARG:NE	2.49	0.46
23:BB:1252:G:H22	38:BQ:36:GLN:NE2	2.14	0.46
5:CF:92:THR:CG2	5:CF:93:LYS:H	2.28	0.46
35:DN:4:ARG:HB3	35:DN:4:ARG:NH1	2.30	0.46
23:BB:811:U:OP2	33:BL:31:GLY:HA2	2.16	0.46
34:DM:18:ARG:N	34:DM:18:ARG:CD	2.78	0.46
34:DM:73:ILE:HD11	34:DM:92:TRP:HE3	1.80	0.46
27:BE:102:ARG:O	27:BE:105:LEU:HG	2.15	0.46
46:BZ:35:ASP:C	46:BZ:42:PRO:HB3	2.35	0.46
10:AK:80:ASN:OD1	10:AK:105:ARG:HB3	2.15	0.46
16:CQ:64:ARG:HB3	16:CQ:64:ARG:NH1	2.30	0.46
33:DL:79:LEU:HG	33:DL:111:ILE:O	2.15	0.46
23:BB:2515:C:H2'	23:BB:2516:A:H8	1.81	0.46
13:CN:63:CYS:HB3	13:CN:68:ARG:N	2.23	0.46
28:BF:165:GLY:HA2	28:BF:168:LEU:CD2	2.45	0.46
10:AK:125:LYS:O	10:AK:126:ARG:O	2.33	0.46
23:DB:2051:A:H4'	26:DD:145:SER:CB	2.44	0.46
5:CF:38:ARG:HH21	5:CF:63:ASN:CG	2.18	0.46
23:DB:163:C:H2'	23:DB:164:C:O4'	2.15	0.46
23:BB:2637:U:C2'	23:BB:2638:G:H5'	2.45	0.46
39:DR:4:VAL:O	39:DR:41:ILE:HG12	2.15	0.46
12:CM:63:VAL:O	12:CM:68:LEU:HD12	2.15	0.46
5:AF:32:ALA:HB1	5:AF:70:VAL:HG11	1.97	0.46
4:CE:89:THR:C	4:CE:91:SER:N	2.69	0.46
29:DG:172:GLU:O	29:DG:173:ALA:C	2.54	0.46
29:DG:42:VAL:HB	29:DG:51:PHE:HA	1.96	0.46
48:D1:5:ARG:N	48:D1:27:ARG:HH22	2.12	0.46
28:DF:132:ARG:HD3	28:DF:133:GLU:N	2.25	0.46
42:BU:29:SER:O	42:BU:30:SER:HB2	2.16	0.46
30:BH:75:LEU:HD23	30:BH:76:GLU:N	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2070:A:H2'	23:DB:2071:A:H8	1.80	0.46
23:DB:1487:U:H2'	23:DB:1488:C:C6	2.51	0.46
1:AA:1462:C:H2'	1:AA:1463:U:C6	2.50	0.46
48:B1:10:LEU:HD22	48:B1:25:ASN:ND2	2.31	0.46
1:CA:812:G:H4'	1:CA:812:G:OP1	2.16	0.46
11:CL:86:VAL:HG22	11:CL:95:HIS:HE2	1.81	0.46
20:CB:218:ALA:O	20:CB:221:ARG:HG2	2.16	0.46
25:DC:243:PRO:HB3	25:DC:248:GLY:HA2	1.98	0.46
1:AA:812:G:H4'	1:AA:812:G:OP1	2.16	0.46
25:DC:257:ARG:HG2	25:DC:257:ARG:NH1	2.31	0.46
1:AA:1149:C:O2'	1:AA:1150:A:H5'	2.15	0.46
22:DA:38:C:H4'	36:DO:100:HIS:CE1	2.51	0.46
23:BB:1791:A:N1	23:BB:1829:A:H5'	2.30	0.46
6:AG:41:ILE:CD1	6:AG:116:ALA:HB2	2.46	0.46
25:BC:257:ARG:O	25:BC:261:ARG:NH1	2.49	0.46
22:BA:18:G:H2'	22:BA:19:C:H6	1.81	0.46
1:CA:691:G:H1'	1:CA:696:A:N6	2.30	0.46
20:CB:48:MET:HB3	20:CB:198:VAL:O	2.15	0.46
27:BE:27:LEU:HD21	27:BE:100:MET:HG2	1.96	0.46
1:CA:768:A:H5'	1:CA:1524:C:H1'	1.97	0.46
12:CM:10:ASP:HA	12:CM:44:ILE:CD1	2.46	0.46
12:CM:9:PRO:O	12:CM:44:ILE:HG12	2.15	0.46
23:DB:1885:A:H3'	23:DB:1886:U:C6	2.51	0.46
23:DB:231:A:H3'	23:DB:232:G:H8	1.81	0.46
23:BB:1368:G:H5'	49:B2:25:LYS:HD3	1.98	0.46
1:CA:1349:A:H2'	1:CA:1350:A:O4'	2.15	0.46
31:DJ:106:LYS:C	31:DJ:108:MET:H	2.18	0.46
1:AA:633:G:H2'	1:AA:634:C:H6	1.80	0.46
23:BB:1683:U:H2'	23:BB:1684:G:H8	1.80	0.46
2:CC:110:LEU:N	2:CC:110:LEU:HD23	2.29	0.46
23:BB:169:G:O2'	23:BB:170:U:H5'	2.15	0.46
6:CG:71:THR:HA	6:CG:95:ARG:HE	1.81	0.46
1:CA:824:G:O2'	1:CA:825:A:H5'	2.14	0.46
34:DM:75:GLU:O	34:DM:86:LYS:HB3	2.15	0.46
1:CA:148:G:N3	1:CA:1446:A:H2	2.13	0.46
23:DB:1042:G:H2'	23:DB:1043:C:H6	1.80	0.46
34:DM:61:GLY:CA	34:DM:105:MET:HB2	2.45	0.46
1:AA:512:U:H2'	1:AA:513:C:C6	2.49	0.46
23:BB:1824:G:H2'	23:BB:1825:U:C6	2.50	0.46
1:AA:1181:G:OP2	1:AA:1181:G:O4'	2.33	0.46
2:CC:76:ILE:O	2:CC:83:VAL:HG23	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:692:C:H2'	23:DB:693:A:C8	2.51	0.46
23:DB:2714:G:H2'	23:DB:2715:C:H6	1.80	0.46
23:DB:1424:G:H2'	23:DB:1425:G:O4'	2.15	0.46
23:DB:1623:G:O2'	23:DB:1624:U:H5'	2.15	0.46
1:CA:1473:G:O2'	1:CA:1474:U:H5'	2.16	0.46
39:BR:82:HIS:ND1	39:BR:82:HIS:O	2.49	0.46
23:DB:1192:G:O2'	23:DB:1193:G:H5'	2.16	0.46
26:DD:36:GLN:HG2	26:DD:88:GLU:HA	1.97	0.46
23:BB:2716:C:O2'	23:BB:2717:C:H5'	2.16	0.46
37:DP:13:LYS:HZ1	37:DP:15:ASP:HB2	1.79	0.46
23:DB:458:G:C2'	23:DB:459:U:OP2	2.64	0.46
44:DX:28:LEU:HD13	44:DX:42:LEU:CG	2.45	0.46
20:AB:187:ASP:CG	20:AB:188:THR:N	2.69	0.46
22:BA:117:G:OP1	36:BO:55:GLU:OE1	2.33	0.46
25:BC:45:ASN:O	25:BC:46:GLY:C	2.54	0.46
23:BB:165:A:H2'	23:BB:166:U:H6	1.80	0.46
30:DH:3:VAL:HG22	30:DH:21:VAL:CG1	2.28	0.46
36:BO:26:LEU:HD13	36:BO:92:PHE:O	2.16	0.46
38:DQ:39:ILE:CG1	38:DQ:40:LYS:N	2.79	0.46
1:AA:1220:G:H4'	18:AS:33:TRP:O	2.16	0.46
23:BB:322:A:C2	23:BB:340:A:C6	3.03	0.46
30:BH:3:VAL:CG2	30:BH:21:VAL:HG21	2.45	0.46
27:DE:116:ASP:C	27:DE:117:ARG:HD2	2.36	0.46
27:DE:148:ILE:HA	27:DE:185:LYS:CB	2.35	0.46
27:DE:116:ASP:OD2	27:DE:185:LYS:HG3	2.16	0.46
33:BL:63:LYS:CA	50:B3:24:LYS:HD3	2.46	0.46
33:BL:83:ALA:O	33:BL:84:LYS:O	2.34	0.46
34:BM:66:ARG:H	34:BM:100:LYS:HB2	1.80	0.46
24:BV:44:HIS:O	24:BV:46:LYS:N	2.49	0.46
39:DR:64:VAL:HG22	39:DR:65:ALA:N	2.23	0.46
8:AI:46:VAL:HA	8:AI:49:GLN:HB2	1.98	0.46
25:BC:59:GLN:O	25:BC:60:ALA:HB3	2.15	0.46
25:BC:79:ARG:HH11	25:BC:80:LEU:N	2.11	0.46
38:BQ:97:ILE:HA	38:BQ:100:PHE:CE2	2.51	0.46
40:BS:34:ASP:CA	40:BS:37:THR:HG22	2.45	0.46
40:BS:69:LEU:O	40:BS:110:ARG:HD2	2.15	0.46
51:B4:24:ARG:HD3	51:B4:26:ILE:HG23	1.98	0.46
30:DH:124:THR:HG23	30:DH:128:HIS:CE1	2.49	0.46
41:BT:6:ARG:C	41:BT:8:LEU:H	2.18	0.46
26:BD:114:LYS:HE3	26:BD:196:ALA:CB	2.45	0.46
23:BB:1453:A:N7	35:BN:72:ASP:OD1	2.49	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:51:ARG:NH1	25:DC:54:GLY:HA3	2.20	0.46
13:CN:30:ILE:HB	13:CN:44:VAL:CB	2.44	0.46
35:BN:73:ASN:CA	35:BN:76:VAL:HG13	2.45	0.46
26:DD:21:SER:O	26:DD:23:PRO:HD3	2.16	0.46
39:DR:41:ILE:HD12	39:DR:42:ALA:H	1.80	0.46
8:CI:8:THR:OG1	8:CI:9:GLY:N	2.49	0.46
1:AA:840:C:N3	1:AA:842:U:H4'	2.30	0.46
1:CA:782:A:H4'	1:CA:1514:G:O2'	2.16	0.46
11:AL:27:PRO:HG2	11:AL:28:GLN:NE2	2.31	0.46
20:CB:113:LEU:HD23	20:CB:113:LEU:C	2.36	0.46
23:DB:2581:G:OP1	26:DD:134:HIS:CD2	2.69	0.46
49:D2:19:ARG:HD3	49:D2:19:ARG:C	2.35	0.46
48:D1:27:ARG:O	48:D1:27:ARG:HG2	2.15	0.46
2:CC:55:VAL:HG23	2:CC:66:THR:HB	1.98	0.46
16:CQ:63:CYS:SG	16:CQ:66:LEU:HD11	2.56	0.46
34:BM:108:VAL:HG23	34:BM:112:LEU:CD1	2.40	0.46
23:DB:948:C:H2'	23:DB:949:G:H8	1.81	0.46
23:DB:1827:U:O2'	23:DB:1828:G:H5'	2.14	0.46
24:DV:93:ARG:HG2	24:DV:94:ALA:N	2.30	0.46
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.15	0.46
23:BB:459:U:H5'	49:B2:41:ARG:HH21	1.80	0.46
4:CE:95:MET:HG3	4:CE:124:ALA:CB	2.44	0.46
23:BB:1795:C:H2'	23:BB:1796:U:C6	2.51	0.46
4:AE:45:VAL:HG12	4:AE:116:VAL:HG23	1.98	0.46
23:BB:2379:G:H2'	23:BB:2380:C:C6	2.51	0.46
1:CA:1131:G:H2'	1:CA:1132:C:H5'	1.98	0.46
44:DX:31:GLN:O	44:DX:32:ALA:HB3	2.15	0.46
2:CC:174:LEU:HD21	2:CC:200:TRP:CD1	2.51	0.46
23:DB:934:U:H2'	23:DB:935:C:H6	1.80	0.46
9:AJ:30:LYS:HG3	9:AJ:36:VAL:HB	1.98	0.46
46:BZ:12:ILE:HG22	46:BZ:24:ILE:HD11	1.96	0.46
25:BC:37:SER:H	25:BC:62:ARG:CB	2.29	0.46
1:AA:529:G:H22	11:AL:47:ALA:HB2	1.80	0.46
23:DB:1841:U:H2'	23:DB:1842:G:H8	1.79	0.46
50:B3:4:LYS:HE3	50:B3:58:ILE:HB	1.98	0.46
1:CA:1432:G:H1'	1:CA:1468:A:N6	2.31	0.46
23:DB:1750:G:H2'	23:DB:1751:U:C6	2.50	0.46
1:CA:455:G:H2'	1:CA:456:A:C8	2.51	0.46
23:BB:2835:A:H61	23:BB:2878:U:H2'	1.81	0.46
1:CA:1492:A:N6	1:CA:1494:G:N9	2.64	0.46
6:CG:8:GLN:HA	6:CG:8:GLN:HE21	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AD:54:LEU:HA	3:AD:202:LEU:HD22	1.97	0.46
1:CA:109:A:H4'	1:CA:110:C:OP2	2.16	0.46
1:CA:1505:G:N7	53:CA:1601:KSG:H3	2.31	0.46
1:AA:834:U:H2'	1:AA:835:U:C6	2.50	0.46
13:CN:76:PHE:O	13:CN:78:LEU:HD13	2.15	0.46
23:BB:1820:U:H3	25:BC:197:ALA:HA	1.79	0.46
52:BI:125:THR:O	52:BI:129:GLU:HG3	2.16	0.46
4:AE:41:GLY:HA2	4:AE:118:GLY:HA2	1.97	0.46
52:BI:102:ARG:HB2	52:BI:141:ASP:OD2	2.16	0.46
7:AH:51:GLU:O	7:AH:56:PRO:HA	2.15	0.46
23:DB:1098:A:O3'	52:DI:4:VAL:O	2.33	0.46
37:DP:91:VAL:HG23	37:DP:92:ARG:N	2.29	0.46
42:BU:11:ILE:HB	42:BU:69:VAL:HG11	1.96	0.46
30:BH:78:VAL:HB	30:BH:143:ILE:O	2.16	0.46
30:BH:78:VAL:CG1	30:BH:102:ALA:HB1	2.46	0.46
23:DB:2386:A:H2'	23:DB:2387:U:H6	1.81	0.46
25:BC:127:ASN:ND2	25:BC:128:THR:N	2.55	0.46
25:BC:136:VAL:CG1	25:BC:165:ALA:HA	2.39	0.46
23:DB:2815:C:C2	23:DB:2816:G:C8	3.04	0.46
23:DB:2816:G:N3	23:DB:2883:A:O2'	2.48	0.46
31:DJ:130:HIS:O	31:DJ:131:ASN:C	2.54	0.46
23:BB:1021:A:N6	23:BB:1141:U:H3	1.98	0.46
43:BW:56:HIS:HE1	43:BW:58:LEU:HB2	1.79	0.46
43:BW:24:ARG:HG3	43:BW:59:PHE:HD1	1.81	0.46
39:DR:81:LYS:O	39:DR:83:TYR:N	2.48	0.46
23:BB:2393:U:OP1	50:B3:29:ARG:NE	2.49	0.46
33:BL:116:VAL:HG12	33:BL:117:THR:N	2.21	0.46
48:D1:47:ILE:O	48:D1:48:TYR:HB2	2.16	0.46
23:BB:811:U:C4	33:BL:29:LYS:HD3	2.50	0.46
23:BB:494:G:O2'	23:BB:495:G:H5'	2.15	0.46
39:DR:63:VAL:HG13	39:DR:64:VAL:N	2.30	0.46
41:DT:32:LEU:O	41:DT:83:ALA:HB3	2.15	0.46
26:BD:170:VAL:HG11	26:BD:194:PRO:CG	2.46	0.46
35:BN:28:LEU:HD21	35:BN:113:ILE:HG21	1.96	0.46
31:BJ:81:ILE:CG1	31:BJ:82:GLY:N	2.69	0.46
39:BR:39:LEU:HA	39:BR:60:LYS:O	2.15	0.46
27:BE:153:LEU:H	27:BE:171:ASP:HB3	1.80	0.46
27:BE:119:ILE:HA	27:BE:189:THR:H	1.81	0.46
23:BB:144:A:O2'	23:BB:145:C:H5'	2.16	0.46
12:CM:3:ILE:HA	12:CM:56:ARG:HH11	1.80	0.46
26:BD:118:PHE:N	26:BD:164:GLN:HG3	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DS:23:LEU:HD13	40:DS:25:ARG:NH2	2.22	0.46
40:DS:23:LEU:HD23	47:D0:21:LEU:HD13	1.96	0.46
26:DD:146:ILE:N	26:DD:146:ILE:CD1	2.79	0.46
23:DB:834:G:H2'	23:DB:835:C:H6	1.80	0.46
23:DB:2645:G:H4'	23:DB:2732:G:H2'	1.96	0.46
23:BB:2648:G:H2'	23:BB:2649:C:H6	1.80	0.46
25:BC:224:MET:SD	25:BC:224:MET:N	2.88	0.46
8:CI:9:GLY:O	8:CI:16:ALA:HB3	2.15	0.46
1:AA:836:G:O2'	1:AA:837:U:H5'	2.15	0.46
1:CA:1006:G:H2'	1:CA:1007:U:H6	1.80	0.46
1:CA:1422:G:H5''	32:DK:48:PRO:CB	2.39	0.46
23:DB:2311:A:O2'	28:DF:39:VAL:HG21	2.15	0.46
52:DI:72:THR:OG1	52:DI:73:PRO:HD2	2.15	0.46
10:CK:12:ARG:HD3	10:CK:13:LYS:NZ	2.29	0.46
10:CK:70:ALA:HB1	10:CK:74:LYS:HB2	1.97	0.46
1:AA:807:A:H2'	1:AA:808:C:C6	2.51	0.46
9:AJ:39:PRO:HA	9:AJ:74:VAL:HG22	1.98	0.46
25:BC:78:GLU:CB	25:BC:92:LEU:HB3	2.46	0.46
23:BB:26:G:H2'	23:BB:27:G:O4'	2.15	0.46
23:DB:1824:G:H2'	23:DB:1825:U:H6	1.80	0.46
42:DU:42:LYS:H	42:DU:57:ILE:HG21	1.80	0.46
23:DB:1552:A:H2'	23:DB:1553:A:C5'	2.43	0.46
8:CI:104:THR:HG22	8:CI:105:ARG:N	2.31	0.46
1:AA:920:U:H2'	1:AA:921:U:H6	1.81	0.46
27:DE:23:PHE:C	27:DE:110:SER:HB2	2.36	0.46
1:AA:1310:G:O2'	1:AA:1311:A:H5'	2.15	0.46
29:BG:32:LEU:HD21	29:BG:74:MET:CG	2.46	0.46
3:AD:24:VAL:O	3:AD:25:ARG:HD2	2.15	0.46
26:BD:100:LEU:C	26:BD:102:ALA:H	2.19	0.46
1:AA:1480:A:O2'	1:AA:1481:U:H5'	2.16	0.46
12:CM:79:LEU:HA	12:CM:82:LEU:CG	2.46	0.46
1:CA:1349:A:OP1	8:CI:121:ARG:HB2	2.16	0.46
1:CA:1347:G:O5'	8:CI:108:ARG:HB2	2.16	0.46
23:BB:1353:A:H2'	23:BB:1354:A:C8	2.50	0.46
27:DE:31:VAL:HG21	27:DE:104:ALA:CB	2.45	0.46
1:CA:599:C:O2'	1:CA:600:A:H5'	2.15	0.46
34:DM:96:ILE:HG22	34:DM:97:GLN:OE1	2.16	0.46
23:BB:2031:A:C6	23:BB:2498:C:H1'	2.50	0.46
1:AA:1010:U:H2'	1:AA:1011:C:C6	2.50	0.46
4:AE:17:VAL:HA	4:AE:34:ALA:HA	1.98	0.46
3:AD:131:ILE:O	3:AD:134:TYR:HB2	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2700:A:H2'	23:BB:2701:U:C6	2.51	0.46
7:AH:93:LYS:HD3	7:AH:93:LYS:N	2.30	0.46
43:DW:54:ARG:HD2	43:DW:54:ARG:N	2.31	0.46
12:AM:1:ALA:O	12:AM:8:ILE:HG22	2.15	0.46
23:DB:307:G:N1	23:DB:310:A:OP2	2.48	0.46
23:DB:1919:A:H2'	23:DB:1920:C:H5'	1.97	0.46
1:AA:334:C:H2'	1:AA:335:C:H6	1.80	0.46
1:AA:328:C:H4'	1:AA:329:A:H5''	1.98	0.46
1:CA:737:C:H5'	5:CF:89:VAL:O	2.15	0.46
1:CA:628:G:H2'	1:CA:629:A:C8	2.51	0.46
23:DB:2543:G:H2'	23:DB:2544:G:C8	2.50	0.46
23:DB:2208:C:H2'	23:DB:2209:G:C8	2.51	0.46
23:DB:1759:A:H4'	23:DB:2715:C:O4'	2.16	0.46
31:BJ:42:ALA:HB1	38:BQ:67:ALA:HB2	1.97	0.46
4:CE:154:ALA:HB1	7:CH:65:PHE:CZ	2.50	0.46
23:BB:473:G:O2'	23:BB:474:G:H5'	2.15	0.46
11:AL:71:HIS:ND1	11:AL:72:ASN:N	2.63	0.46
23:BB:2063:C:O2	23:BB:2450:A:N1	2.49	0.46
42:DU:38:ILE:HG13	42:DU:62:ALA:CB	2.45	0.46
49:D2:39:ARG:HG3	49:D2:39:ARG:HH11	1.79	0.46
23:BB:1113:U:H5''	29:BG:2:ARG:H	1.79	0.46
23:BB:615:U:O2	27:BE:38:GLY:HA3	2.15	0.46
26:BD:22:ILE:HG12	26:BD:22:ILE:O	2.15	0.46
43:DW:44:PHE:CD2	43:DW:77:LYS:HB3	2.50	0.46
43:DW:57:THR:HG22	43:DW:77:LYS:HG2	1.98	0.46
23:BB:692:C:H2'	23:BB:693:A:C8	2.51	0.46
36:BO:15:ARG:HH22	36:BO:17:LYS:HD2	1.80	0.46
38:DQ:52:ARG:HH11	38:DQ:52:ARG:HB3	1.79	0.46
39:DR:79:ARG:HB3	39:DR:89:HIS:HE1	1.81	0.46
27:DE:188:MET:CE	27:DE:190:ALA:HB2	2.46	0.46
32:BK:23:LYS:CG	32:BK:24:VAL:H	2.27	0.46
32:BK:61:VAL:HG23	32:BK:85:VAL:HB	1.98	0.46
23:BB:2484:G:HO2'	34:BM:45:GLN:NE2	2.14	0.46
23:DB:2722:G:H2'	23:DB:2723:C:H6	1.81	0.46
23:DB:1795:C:H2'	23:DB:1796:U:C6	2.51	0.46
33:BL:28:GLY:O	33:BL:29:LYS:HB2	2.15	0.46
23:BB:527:C:O2'	23:BB:528:A:C8	2.66	0.46
8:AI:51:LEU:HB3	8:AI:56:MET:CG	2.45	0.46
51:B4:27:CYS:SG	51:B4:33:HIS:NE2	2.89	0.46
10:AK:88:PRO:HA	10:AK:92:ARG:HD2	1.98	0.46
24:BV:4:ILE:HD11	24:BV:61:LEU:CD1	2.46	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:126:GLY:O	30:DH:145:ASN:HA	2.16	0.46
13:CN:17:ASP:C	13:CN:19:TYR:H	2.19	0.46
33:DL:92:LEU:HB2	33:DL:125:LEU:CD1	2.45	0.46
33:BL:88:GLY:O	33:BL:90:VAL:HG23	2.15	0.46
10:CK:92:ARG:HH11	10:CK:92:ARG:HG2	1.81	0.46
26:BD:38:LYS:N	26:BD:38:LYS:HD3	2.30	0.46
23:DB:2156:G:H2'	23:DB:2157:G:C4'	2.37	0.46
13:CN:45:LEU:O	13:CN:48:GLN:HG3	2.16	0.46
45:DY:26:LEU:C	45:DY:28:LEU:H	2.19	0.46
37:DP:52:ARG:HG2	37:DP:60:VAL:CG2	2.46	0.46
23:DB:1019:U:O2'	23:DB:1020:A:H5'	2.15	0.46
32:DK:11:ALA:C	32:DK:100:PHE:H	2.20	0.46
38:DQ:87:VAL:O	39:DR:54:VAL:HG21	2.16	0.46
4:CE:87:VAL:O	4:CE:88:HIS:HB3	2.16	0.46
5:AF:29:ILE:HD13	5:AF:64:VAL:CG1	2.45	0.46
15:CP:4:ILE:CD1	15:CP:57:ILE:HG12	2.44	0.46
1:AA:1236:A:H2'	1:AA:1237:C:O4'	2.15	0.46
35:BN:9:GLN:HE21	35:BN:17:ARG:NH2	2.14	0.46
23:BB:2297:A:N6	23:BB:2319:G:C5'	2.78	0.46
35:DN:76:VAL:O	35:DN:80:PHE:HD1	1.98	0.46
1:CA:1095:U:H2'	1:CA:1096:C:H6	1.81	0.46
1:AA:239:U:H5'	1:AA:239:U:H6	1.80	0.46
32:DK:4:GLU:OE2	32:DK:23:LYS:HD2	2.15	0.46
29:DG:42:VAL:HA	29:DG:50:THR:O	2.16	0.46
52:DI:18:ASN:N	52:DI:19:PRO:CD	2.78	0.46
1:AA:81:A:C2	1:AA:82:G:N7	2.83	0.46
19:CT:69:ASN:ND2	19:CT:69:ASN:N	2.53	0.46
1:CA:807:A:H2'	1:CA:808:C:C6	2.51	0.46
11:CL:65:TYR:HB3	11:CL:95:HIS:CD2	2.51	0.46
20:CB:19:THR:HA	20:CB:37:VAL:HB	1.98	0.46
36:DO:100:HIS:HA	36:DO:104:GLN:NE2	2.30	0.46
23:DB:479:A:O2'	23:DB:480:A:OP2	2.30	0.46
42:DU:42:LYS:N	42:DU:57:ILE:HG21	2.31	0.46
23:BB:2239:G:H5'	25:BC:246:PRO:HG2	1.97	0.46
23:DB:1251:C:HO2'	23:DB:1252:G:H3'	1.80	0.46
23:DB:2415:G:H4'	33:DL:66:PHE:CB	2.46	0.46
23:BB:1791:A:C4'	25:BC:207:ALA:H	2.28	0.46
6:AG:94:ARG:CD	6:AG:98:LEU:HD11	2.43	0.46
23:DB:242:G:O2'	23:DB:243:U:OP2	2.33	0.46
7:CH:38:VAL:CG2	7:CH:111:THR:HG22	2.46	0.46
23:BB:131:A:O2'	23:BB:132:G:H5'	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:570:G:O2'	23:DB:571:U:H5'	2.16	0.46
24:BV:77:VAL:HG21	24:BV:79:ARG:HH21	1.81	0.46
2:CC:8:GLY:O	2:CC:11:LEU:HG	2.15	0.46
23:BB:215:G:H4'	23:BB:216:A:OP1	2.15	0.46
23:DB:964:C:O2'	23:DB:2273:A:H1'	2.15	0.46
11:AL:98:ARG:CB	11:AL:116:TYR:HA	2.45	0.46
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.79	0.46
29:DG:94:ARG:H	29:DG:105:SER:HB2	1.80	0.46
23:DB:1163:G:O2'	23:DB:1164:C:H5'	2.16	0.46
23:DB:1165:A:C2	23:DB:1166:G:N7	2.83	0.46
25:DC:136:VAL:C	25:DC:138:SER:N	2.69	0.46
23:BB:1747:U:H2'	23:BB:1748:C:H6	1.81	0.46
23:DB:1537:G:H2'	23:DB:1538:G:O4'	2.14	0.46
27:BE:28:VAL:HG23	27:BE:29:HIS:N	2.31	0.46
23:BB:682:G:H5'	49:B2:26:ASN:OD1	2.16	0.46
1:CA:1486:G:H2'	1:CA:1487:G:C8	2.51	0.46
18:AS:12:LEU:O	18:AS:15:LEU:HB3	2.15	0.46
23:DB:1108:U:H2'	23:DB:1109:C:H6	1.81	0.46
23:DB:2373:G:H2'	23:DB:2374:C:H6	1.80	0.46
29:BG:6:ALA:N	29:BG:7:PRO:CD	2.79	0.46
23:DB:2093:G:H2'	23:DB:2094:A:H8	1.81	0.46
27:BE:35:TYR:CE2	27:BE:178:VAL:HG21	2.50	0.46
21:CU:8:ASN:HB2	21:CU:9:GLU:OE2	2.16	0.46
25:BC:38:LYS:O	25:BC:39:SER:HB3	2.15	0.46
1:AA:285:C:H2'	1:AA:286:C:H6	1.81	0.46
2:CC:190:THR:HG22	2:CC:191:THR:H	1.80	0.46
32:DK:84:CYS:O	32:DK:85:VAL:HB	2.16	0.46
10:AK:32:THR:HA	10:AK:43:TRP:HA	1.98	0.46
23:BB:30:G:O2'	23:BB:31:C:H5'	2.16	0.46
23:DB:256:A:O2'	23:DB:257:C:H5'	2.16	0.46
38:BQ:89:ILE:O	38:BQ:89:ILE:HG12	2.15	0.46
23:DB:277:G:H2'	23:DB:277:G:N3	2.31	0.46
23:DB:2603:G:O2'	23:DB:2604:U:H5'	2.16	0.46
23:BB:247:G:H4'	23:BB:386:G:C5	2.51	0.46
23:BB:248:G:C2	23:BB:2431:U:H4'	2.51	0.46
20:AB:164:ASP:CG	20:AB:203:ASP:HB2	2.36	0.46
36:BO:64:TYR:CD1	36:BO:74:VAL:HG21	2.50	0.46
26:BD:11:MET:HE1	37:BP:9:GLN:HG2	1.98	0.46
26:BD:23:PRO:HA	26:BD:190:LYS:HA	1.98	0.46
37:BP:9:GLN:CD	37:BP:56:SER:HB2	2.36	0.46
37:BP:57:ALA:C	37:BP:59:THR:H	2.19	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DW:38:ARG:O	43:DW:39:GLN:HB3	2.15	0.46
23:BB:774:G:OP2	25:BC:47:ARG:HD3	2.15	0.46
25:DC:92:LEU:HD12	25:DC:101:ARG:O	2.16	0.46
31:BJ:17:VAL:HG13	31:BJ:57:LEU:HD21	1.97	0.46
31:BJ:19:ASP:O	31:BJ:20:ALA:HB3	2.16	0.46
23:DB:814:C:OP1	39:DR:87:GLN:O	2.34	0.46
38:DQ:39:ILE:HA	38:DQ:43:GLN:NE2	2.30	0.46
38:DQ:53:LYS:N	38:DQ:53:LYS:HE2	2.13	0.46
30:BH:3:VAL:HB	30:BH:37:VAL:CG2	2.46	0.46
27:DE:154:ASP:OD2	27:DE:156:ASN:HB3	2.16	0.46
33:BL:120:VAL:H	33:BL:138:ALA:CB	2.29	0.46
23:BB:396:G:C4'	46:BZ:28:VAL:HG21	2.34	0.46
32:BK:99:ILE:CG2	32:BK:119:ALA:HB2	2.46	0.46
23:BB:2460:U:H2'	23:BB:2461:A:H8	1.81	0.46
47:B0:2:VAL:CG2	47:B0:3:GLN:N	2.79	0.46
26:BD:148:GLN:HB3	26:BD:151:THR:CG2	2.45	0.46
23:DB:139:U:H3'	23:DB:139:U:OP2	2.16	0.46
23:DB:2721:A:H2'	23:DB:2722:G:C8	2.51	0.46
38:BQ:5:ARG:CD	38:BQ:5:ARG:H	2.27	0.46
39:DR:35:PHE:HB3	39:DR:64:VAL:HG12	1.97	0.46
31:DJ:17:VAL:HA	31:DJ:55:ILE:HB	1.98	0.46
28:BF:35:LEU:O	28:BF:36:ASN:HB3	2.14	0.46
18:CS:43:MET:O	18:CS:46:LEU:HB2	2.16	0.46
35:BN:41:ALA:HB1	35:BN:97:ILE:HD12	1.97	0.46
35:BN:78:LYS:O	35:BN:82:GLU:HB2	2.15	0.46
25:BC:27:LYS:HG3	25:BC:80:LEU:HB2	1.96	0.46
21:AU:15:LEU:O	21:AU:18:PHE:HB2	2.16	0.46
26:DD:185:ASN:O	26:DD:186:LEU:HD12	2.16	0.46
23:BB:2723:C:C5'	35:BN:3:HIS:HB2	2.46	0.46
26:BD:131:ASP:CG	26:BD:132:ALA:N	2.69	0.46
33:DL:62:PRO:HG3	50:D3:12:ARG:NH2	2.29	0.46
26:DD:29:VAL:CG2	26:DD:30:GLU:H	2.18	0.46
22:DA:75:G:N1	22:DA:102:G:N2	2.64	0.46
26:BD:1:MET:CB	26:BD:84:LEU:HD22	2.40	0.46
11:CL:23:LEU:O	11:CL:25:ALA:N	2.49	0.46
38:DQ:108:LEU:HA	38:DQ:111:LYS:CD	2.45	0.46
8:CI:87:MET:HB2	8:CI:94:ARG:NH2	2.31	0.46
33:DL:118:THR:O	33:DL:120:VAL:N	2.49	0.46
19:AT:60:GLN:H	19:AT:60:GLN:CD	2.19	0.46
23:DB:443:A:N7	27:DE:40:ARG:HG2	2.31	0.46
23:BB:1083:U:C2	23:BB:1086:A:N1	2.83	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:38:VAL:HG23	2:AC:39:ARG:N	2.29	0.46
52:DI:54:ILE:O	52:DI:54:ILE:HG23	2.16	0.46
36:BO:84:GLU:N	36:BO:84:GLU:OE1	2.49	0.46
41:DT:35:ALA:O	41:DT:81:LYS:HD3	2.16	0.46
49:D2:43:THR:C	49:D2:44:VAL:HG22	2.36	0.46
32:DK:43:ILE:HG22	32:DK:54:LYS:HA	1.97	0.46
1:AA:1202:U:H2'	1:AA:1203:C:C5'	2.46	0.46
23:DB:2800:A:N3	23:DB:2801:G:H1'	2.30	0.46
1:AA:428:G:H4'	1:AA:429:U:O5'	2.16	0.46
23:BB:2815:C:C2	23:BB:2816:G:C8	3.04	0.46
23:BB:2816:G:N3	23:BB:2883:A:O2'	2.48	0.46
23:DB:1791:A:OP1	25:DC:211:ARG:HG2	2.16	0.46
25:BC:115:ILE:HG23	25:BC:126:GLY:O	2.15	0.46
48:B1:10:LEU:HD22	48:B1:25:ASN:HD22	1.81	0.46
2:AC:111:ASP:O	2:AC:115:VAL:HG23	2.15	0.46
8:CI:117:LEU:CD2	8:CI:123:ARG:HD3	2.46	0.46
1:CA:278:G:H21	1:CA:279:A:N6	2.10	0.46
23:DB:153:U:H2'	23:DB:154:U:O4'	2.16	0.46
23:DB:1309:G:C5'	49:D2:7:PRO:HB2	2.46	0.46
29:BG:94:ARG:NH1	29:BG:127:GLN:HB2	2.31	0.46
44:BX:30:MET:CG	44:BX:31:GLN:N	2.79	0.46
44:BX:59:GLU:C	44:BX:61:ALA:H	2.19	0.46
1:CA:601:G:H2'	1:CA:602:A:H8	1.80	0.46
36:DO:82:ALA:HB1	36:DO:87:ILE:CG2	2.46	0.46
23:BB:1735:A:H2'	23:BB:1736:U:C6	2.50	0.46
23:DB:1162:G:O2'	23:DB:1163:G:H5'	2.16	0.46
25:BC:62:ARG:O	25:BC:62:ARG:NE	2.48	0.46
23:BB:1712:U:H3'	23:BB:1713:A:C5'	2.46	0.46
9:AJ:15:HIS:CD2	9:AJ:19:ASP:HB2	2.51	0.46
32:DK:18:ARG:HB2	32:DK:45:GLU:HG2	1.98	0.46
52:BI:46:ASP:HA	52:BI:50:LYS:HG3	1.96	0.46
23:BB:1946:U:C2	23:BB:1947:C:C5	3.03	0.46
23:DB:267:C:H2'	23:DB:268:C:C6	2.50	0.46
23:BB:1011:G:H5''	38:BQ:76:SER:OG	2.16	0.46
23:DB:2716:C:O2'	23:DB:2717:C:H5'	2.15	0.46
23:DB:2083:G:H2'	23:DB:2084:C:C6	2.51	0.46
1:AA:628:G:H2'	1:AA:629:A:C8	2.51	0.46
25:DC:38:LYS:HG3	25:DC:39:SER:N	2.31	0.46
23:BB:2714:G:H2'	23:BB:2715:C:C6	2.51	0.46
20:AB:15:PHE:O	20:AB:40:ILE:HG13	2.16	0.46
2:CC:177:LEU:HD22	2:CC:177:LEU:N	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:119:LEU:HD13	6:AG:119:LEU:C	2.36	0.46
26:BD:135:GLY:C	26:BD:137:SER:N	2.69	0.46
1:AA:820:U:H4'	1:AA:821:G:OP2	2.16	0.46
4:CE:76:ASN:O	4:CE:77:ASN:HB3	2.16	0.46
1:AA:28:A:O2'	1:AA:296:U:OP1	2.32	0.46
23:BB:1091:G:O2'	23:BB:1092:C:H5'	2.15	0.46
1:AA:1372:U:OP1	8:AI:72:SER:HB2	2.16	0.46
1:CA:721:G:H5''	17:CR:42:ARG:HH21	1.81	0.46
1:CA:684:U:O2'	10:CK:39:ASN:HB3	2.16	0.46
23:BB:788:A:H1'	49:B2:4:THR:OG1	2.15	0.46
23:BB:1936:A:H2	23:BB:1943:U:C5	2.33	0.46
12:AM:58:GLU:HA	12:AM:61:LYS:HE2	1.98	0.46
37:DP:111:GLU:C	37:DP:113:LEU:H	2.18	0.46
23:BB:85:G:H5'	42:BU:28:LEU:CA	2.22	0.46
42:BU:66:VAL:O	42:BU:68:ASN:N	2.48	0.46
42:BU:90:LYS:HD2	42:BU:91:LYS:H	1.81	0.46
23:BB:441:U:H2'	23:BB:442:G:C8	2.49	0.46
51:D4:15:LYS:C	51:D4:17:VAL:H	2.20	0.46
25:BC:66:PHE:O	25:BC:68:ARG:HG3	2.16	0.46
23:BB:2334:U:OP2	36:BO:7:ARG:NE	2.49	0.46
35:DN:33:ILE:HG12	35:DN:114:GLU:HB3	1.98	0.46
31:DJ:57:LEU:HG	31:DJ:128:ASN:HA	1.98	0.46
43:BW:43:LYS:N	43:BW:43:LYS:HD2	2.31	0.46
38:DQ:40:LYS:O	38:DQ:44:TYR:HB3	2.16	0.46
18:AS:29:PRO:HB3	18:AS:47:THR:CG2	2.46	0.46
33:BL:56:PRO:C	33:BL:60:ARG:HB2	2.35	0.46
46:BZ:7:PRO:O	46:BZ:8:LYS:HB3	2.16	0.46
32:BK:58:LEU:HA	32:BK:89:ASN:HD22	1.80	0.46
48:D1:35:LEU:HD23	48:D1:35:LEU:N	2.31	0.46
40:BS:8:ARG:O	40:BS:9:HIS:HB2	2.16	0.46
41:DT:47:VAL:HG22	41:DT:53:VAL:CG2	2.40	0.46
28:BF:131:VAL:HG12	28:BF:132:ARG:N	2.30	0.46
28:BF:109:ARG:CB	28:BF:136:ILE:HG13	2.46	0.46
28:BF:56:LEU:HD23	28:BF:59:ILE:HG22	1.98	0.46
39:BR:48:LYS:C	39:BR:49:ILE:HD13	2.36	0.46
1:AA:132:C:O2'	1:AA:133:U:H5'	2.15	0.46
5:AF:50:PRO:HA	5:AF:54:LEU:O	2.16	0.46
40:BS:28:LYS:HB3	40:BS:71:VAL:HB	1.98	0.46
40:BS:4:ILE:HD12	40:BS:106:VAL:HG22	1.98	0.46
24:BV:70:ILE:HG12	24:BV:71:LYS:N	2.27	0.46
33:DL:108:ALA:HB3	33:DL:125:LEU:HB2	1.98	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:17:GLU:HA	37:BP:80:VAL:CG2	2.46	0.46
33:BL:103:ILE:HD13	33:BL:104:GLN:H	1.81	0.46
33:BL:94:THR:HG23	33:BL:95:LEU:H	1.80	0.46
12:CM:52:ILE:O	12:CM:55:LEU:HB2	2.16	0.46
23:BB:1999:C:O2'	23:BB:2000:C:H5'	2.15	0.46
23:BB:2578:G:H1'	26:BD:145:SER:CB	2.46	0.46
23:DB:2393:U:H5	50:D3:30:HIS:HE1	1.63	0.46
23:DB:2393:U:O2'	23:DB:2394:C:H5'	2.15	0.46
26:BD:106:LYS:O	26:BD:206:ALA:HB2	2.16	0.46
4:CE:20:VAL:CG1	4:CE:31:SER:HB2	2.45	0.46
2:AC:173:PRO:C	2:AC:175:HIS:H	2.19	0.46
11:AL:35:ARG:O	11:AL:52:CYS:HB2	2.16	0.46
19:AT:60:GLN:HE21	19:AT:61:ALA:H	1.64	0.46
1:AA:1304:G:H2'	1:AA:1305:G:C1'	2.46	0.46
18:CS:32:THR:HG22	18:CS:33:TRP:N	2.21	0.46
23:BB:2014:A:P	40:BS:95:ARG:HH21	2.39	0.46
23:DB:741:U:H2'	23:DB:742:A:H8	1.79	0.46
37:BP:109:ILE:HG22	37:BP:109:ILE:O	2.16	0.46
23:DB:1665:A:O2'	23:DB:1666:G:H5'	2.15	0.46
46:DZ:64:PHE:O	46:DZ:64:PHE:HD2	1.98	0.46
1:AA:82:G:C6	1:AA:88:U:O2	2.69	0.46
1:AA:1460:C:O2'	1:AA:1461:G:H5'	2.16	0.46
25:BC:77:VAL:HG21	25:BC:109:LEU:CG	2.43	0.46
36:BO:106:LEU:O	36:BO:106:LEU:HD13	2.16	0.46
23:BB:1553:A:O2'	23:BB:1554:U:H2'	2.16	0.46
23:BB:2600:A:H62	25:BC:235:GLU:CB	2.29	0.46
1:CA:1279:G:H22	9:CJ:45:ARG:HD2	1.80	0.46
14:CO:10:ILE:HD11	14:CO:29:ALA:CB	2.46	0.46
23:BB:192:C:C2'	23:BB:193:U:H5'	2.43	0.46
8:CI:117:LEU:HD23	8:CI:123:ARG:HD3	1.97	0.46
23:DB:2065:C:H5'	23:DB:2251:G:H21	1.81	0.46
20:CB:60:ALA:HA	20:CB:64:GLY:HA3	1.98	0.46
23:BB:935:C:H2'	23:BB:936:A:H8	1.81	0.46
23:BB:1408:G:H2'	23:BB:1409:U:H6	1.80	0.46
35:DN:101:GLY:O	35:DN:102:PHE:HB3	2.16	0.46
4:AE:82:HIS:HB2	4:AE:83:PRO:HD2	1.98	0.46
40:DS:3:THR:HG21	40:DS:58:ALA:HB2	1.97	0.46
1:CA:861:G:O2'	1:CA:862:C:H5'	2.15	0.46
15:AP:6:LEU:HD11	15:AP:71:VAL:HB	1.98	0.46
1:CA:1216:A:P	13:CN:2:LYS:HE2	2.56	0.46
23:BB:1313:U:C2'	23:BB:1313:U:O2	2.64	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:411:A:C5	1:CA:413:G:H1'	2.51	0.46
7:AH:86:LYS:HB3	7:AH:90:GLU:HB2	1.97	0.46
1:CA:132:C:O2'	1:CA:133:U:H5'	2.15	0.46
23:BB:593:U:H2'	23:BB:594:U:H6	1.81	0.46
23:BB:1979:U:C2'	23:BB:1980:G:H5'	2.46	0.46
23:BB:2307:G:O2'	23:BB:2311:A:N6	2.49	0.46
1:AA:382:A:O2'	1:AA:383:A:H5'	2.15	0.46
1:CA:1049:U:H2'	1:CA:1049:U:O2	2.14	0.46
23:DB:2893:A:H4'	23:DB:2894:G:H5'	1.96	0.46
2:CC:143:LEU:N	2:CC:143:LEU:HD13	2.31	0.46
1:CA:22:G:O2'	1:CA:23:C:H5'	2.16	0.46
23:DB:494:G:O2'	23:DB:495:G:H5'	2.16	0.46
1:AA:599:C:O2'	1:AA:600:A:H5'	2.15	0.46
1:AA:601:G:H2'	1:AA:602:A:C8	2.50	0.46
6:AG:11:ILE:HG12	6:AG:24:LYS:HE2	1.97	0.46
10:CK:17:ASP:CG	10:CK:36:ARG:HH11	2.19	0.46
3:AD:98:ASP:CB	3:AD:132:ALA:HB1	2.46	0.46
23:DB:2752:C:H2'	23:DB:2753:A:O4'	2.15	0.46
18:AS:12:LEU:HD23	18:AS:12:LEU:O	2.15	0.46
26:BD:15:PHE:HB3	26:BD:18:ASP:CB	2.45	0.46
52:BI:52:LEU:HD21	52:BI:81:LYS:NZ	2.31	0.46
23:BB:523:C:O2'	23:BB:524:G:H5'	2.16	0.46
10:AK:63:GLN:O	10:AK:67:GLU:HB3	2.15	0.46
23:DB:2776:A:H4'	23:DB:2777:G:C5'	2.46	0.46
31:DJ:28:LEU:HD22	31:DJ:28:LEU:O	2.16	0.46
42:DU:48:VAL:O	42:DU:48:VAL:HG12	2.16	0.46
14:CO:81:ILE:O	14:CO:85:GLY:N	2.48	0.46
1:CA:932:C:H2'	1:CA:933:G:H8	1.80	0.46
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.81	0.46
23:BB:1704:C:O2'	23:BB:1705:A:H5'	2.16	0.46
23:DB:1597:A:H5''	23:DB:1598:A:H5'	1.96	0.46
1:AA:41:G:H2'	1:AA:42:G:H8	1.81	0.46
1:CA:652:U:H1'	1:CA:653:U:C5	2.50	0.46
1:CA:956:U:H2'	1:CA:957:U:C6	2.50	0.46
20:CB:195:VAL:HG12	20:CB:197:PHE:H	1.81	0.46
23:BB:89:A:H2'	23:BB:90:U:C6	2.51	0.46
50:D3:56:LEU:HD12	50:D3:56:LEU:C	2.36	0.46
8:AI:119:LYS:NZ	8:AI:119:LYS:HB3	2.31	0.46
11:AL:120:ARG:HG3	11:AL:120:ARG:HH11	1.81	0.46
29:BG:34:ARG:HG3	29:BG:35:THR:N	2.30	0.46
30:BH:27:ARG:HB2	30:BH:27:ARG:HH11	1.81	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1427:C:O2'	1:AA:1428:A:H5'	2.16	0.46
40:DS:5:ALA:HB3	40:DS:54:ALA:HB2	1.98	0.46
43:DW:77:LYS:C	43:DW:79:ILE:N	2.68	0.45
25:DC:142:ASN:HA	25:DC:153:LEU:CD2	2.46	0.45
23:DB:1821:A:C5'	25:DC:155:ARG:HH21	2.29	0.45
23:DB:1816:C:C5	25:DC:62:ARG:HD2	2.51	0.45
23:BB:917:A:H2'	23:BB:918:A:O4'	2.15	0.45
23:DB:299:A:N6	23:DB:322:A:H1'	2.31	0.45
23:BB:630:G:H4'	23:BB:640:C:O2'	2.16	0.45
33:BL:77:ILE:HB	33:BL:110:VAL:HG13	1.98	0.45
33:BL:125:LEU:O	33:BL:126:ARG:HG3	2.17	0.45
46:BZ:63:ARG:HA	46:BZ:63:ARG:NE	2.31	0.45
23:DB:2087:G:H2'	23:DB:2088:A:C8	2.51	0.45
34:BM:124:LEU:H	34:BM:124:LEU:HD23	1.81	0.45
40:BS:8:ARG:NH2	40:BS:102:HIS:NE2	2.64	0.45
23:BB:1157:G:H1'	45:BY:10:ARG:HH22	1.81	0.45
41:DT:20:ALA:O	41:DT:21:SER:HB3	2.17	0.45
5:CF:67:PRO:O	5:CF:70:VAL:HG22	2.15	0.45
31:BJ:43:GLU:O	31:BJ:44:TYR:C	2.54	0.45
39:BR:42:ALA:O	39:BR:45:GLU:HG3	2.16	0.45
27:BE:144:GLU:C	27:BE:146:VAL:N	2.70	0.45
1:CA:1014:A:H5''	18:CS:13:HIS:CB	2.46	0.45
23:BB:2721:A:H2'	23:BB:2722:G:C8	2.51	0.45
1:AA:1098:C:C2'	1:AA:1099:G:H5'	2.46	0.45
21:AU:32:ARG:HB3	21:AU:33:ARG:H	1.59	0.45
23:DB:1033:U:C4	51:D4:16:ILE:HD11	2.52	0.45
26:BD:50:VAL:HB	26:BD:75:ALA:HB3	1.97	0.45
23:DB:873:C:H4'	34:DM:64:TRP:CZ3	2.51	0.45
45:DY:25:GLY:C	45:DY:26:LEU:HD23	2.36	0.45
45:DY:37:ARG:NE	45:DY:37:ARG:HA	2.31	0.45
37:DP:52:ARG:HG3	37:DP:54:LEU:HD12	1.98	0.45
32:DK:12:ASP:HA	32:DK:99:ILE:HA	1.97	0.45
1:CA:1250:A:H5''	8:CI:69:GLY:H	1.81	0.45
8:CI:94:ARG:O	8:CI:98:ARG:HG3	2.15	0.45
14:AO:70:LYS:HZ2	14:AO:74:VAL:HA	1.81	0.45
3:AD:160:LEU:H	3:AD:160:LEU:CD1	2.22	0.45
1:CA:1237:C:H3'	1:CA:1336:C:H41	1.81	0.45
49:D2:46:LYS:N	49:D2:46:LYS:HE3	2.31	0.45
27:DE:55:SER:N	27:DE:74:LYS:HE3	2.30	0.45
48:B1:12:SER:HA	48:B1:50:GLU:CB	2.41	0.45
16:CQ:56:ASP:N	16:CQ:81:ALA:HB2	2.31	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:B3:35:LYS:HD3	50:B3:35:LYS:N	2.31	0.45
33:DL:18:ARG:NH2	33:DL:21:ARG:HD3	2.31	0.45
2:CC:145:ALA:HA	2:CC:203:LYS:HA	1.98	0.45
1:AA:1149:C:H2'	1:AA:1150:A:H8	1.80	0.45
14:CO:36:ASN:HA	14:CO:39:GLN:HG3	1.98	0.45
23:BB:532:A:N3	23:BB:532:A:H2'	2.30	0.45
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.16	0.45
1:AA:861:G:O2'	1:AA:862:C:H5'	2.15	0.45
23:DB:448:U:C6	27:DE:79:ARG:HG3	2.51	0.45
28:BF:32:LYS:HB3	28:BF:91:ARG:HB3	1.98	0.45
23:BB:2748:A:H1'	29:BG:66:THR:OG1	2.16	0.45
29:BG:71:LEU:HG	29:BG:74:MET:SD	2.56	0.45
26:DD:138:LEU:HD12	26:DD:142:VAL:HB	1.98	0.45
1:CA:202:G:N2	1:CA:465:A:H61	2.14	0.45
20:AB:113:LEU:C	20:AB:113:LEU:HD23	2.37	0.45
1:CA:767:A:H2'	1:CA:768:A:H8	1.81	0.45
11:AL:90:PRO:C	11:AL:92:VAL:H	2.18	0.45
20:CB:67:LEU:O	20:CB:160:LEU:HD12	2.16	0.45
23:DB:1084:A:H1'	23:DB:1106:G:H5'	1.98	0.45
23:BB:963:U:H2'	23:BB:964:C:C6	2.51	0.45
1:AA:525:C:H2'	1:AA:526:C:C6	2.51	0.45
1:CA:598:U:H2'	1:CA:599:C:C6	2.51	0.45
1:AA:955:U:O2'	1:AA:956:U:H5'	2.16	0.45
23:DB:1747:U:H2'	23:DB:1748:C:H6	1.80	0.45
23:BB:359:G:C2'	23:BB:360:U:H5'	2.46	0.45
23:DB:346:A:H2'	23:DB:347:A:O4'	2.15	0.45
23:BB:1123:C:H2'	23:BB:1124:G:C8	2.48	0.45
23:DB:2379:G:H2'	23:DB:2380:C:C6	2.51	0.45
3:AD:169:TRP:CB	3:AD:183:ARG:HH21	2.30	0.45
5:AF:100:SER:HA	17:AR:23:LYS:HZ2	1.81	0.45
23:BB:1064:C:O2'	23:BB:1065:U:H5'	2.16	0.45
37:BP:88:ARG:HA	37:BP:88:ARG:NE	2.30	0.45
3:CD:127:ARG:H	3:CD:127:ARG:CD	2.28	0.45
1:CA:357:G:OP1	1:CA:367:U:H6	1.99	0.45
34:DM:85:GLY:O	34:DM:86:LYS:O	2.34	0.45
23:BB:570:G:O2'	23:BB:571:U:H5'	2.16	0.45
23:DB:786:C:H5''	23:DB:1780:A:N7	2.31	0.45
23:DB:383:C:H41	23:DB:385:C:H2'	1.81	0.45
42:DU:48:VAL:C	42:DU:50:ALA:N	2.65	0.45
1:AA:109:A:H4'	1:AA:110:C:OP2	2.16	0.45
20:AB:26:MET:HG2	20:AB:192:PRO:HG3	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:57:TYR:CZ	29:BG:59:ASP:HB2	2.52	0.45
23:DB:2182:U:H2'	23:DB:2183:A:C8	2.52	0.45
36:BO:94:ARG:O	36:BO:95:SER:C	2.54	0.45
27:DE:10:SER:C	27:DE:12:LEU:H	2.19	0.45
23:DB:2746:U:O2'	23:DB:2747:G:H5'	2.16	0.45
1:CA:924:C:H2'	1:CA:925:G:H8	1.82	0.45
1:CA:834:U:H2'	1:CA:835:U:C6	2.50	0.45
23:DB:2477:U:H4'	23:DB:2479:U:O4	2.16	0.45
23:BB:1940:U:H1'	23:BB:1941:C:H5	1.81	0.45
2:AC:102:ILE:C	2:AC:102:ILE:HD12	2.36	0.45
9:CJ:17:LEU:C	9:CJ:17:LEU:HD13	2.35	0.45
23:DB:1678:A:O2'	23:DB:1679:A:H5'	2.16	0.45
32:DK:78:ARG:H	37:DP:72:VAL:CG2	2.27	0.45
23:BB:1112:G:O2'	29:BG:2:ARG:HG2	2.17	0.45
35:DN:48:VAL:O	35:DN:51:LEU:HB2	2.15	0.45
25:DC:171:VAL:O	25:DC:172:THR:HG23	2.17	0.45
33:BL:77:ILE:HG22	33:BL:78:ARG:N	2.30	0.45
23:BB:2056:G:O2'	47:B0:2:VAL:HG11	2.17	0.45
46:DZ:37:CYS:SG	46:DZ:39:LYS:HB2	2.57	0.45
25:DC:178:GLY:C	25:DC:179:GLU:HG2	2.35	0.45
36:DO:27:VAL:HG22	36:DO:38:GLN:O	2.17	0.45
23:BB:1164:C:H2'	23:BB:1165:A:H8	1.81	0.45
23:BB:528:A:N1	23:BB:2043:C:H5'	2.31	0.45
23:BB:1133:A:H4'	23:BB:1134:A:C5'	2.46	0.45
31:BJ:31:GLU:O	31:BJ:35:ARG:HB2	2.15	0.45
20:CB:95:TRP:CZ2	20:CB:100:LEU:HD13	2.50	0.45
10:AK:22:ILE:HD12	10:AK:85:VAL:HG22	1.98	0.45
30:DH:126:GLY:H	30:DH:146:VAL:HB	1.82	0.45
23:DB:630:G:H4'	23:DB:640:C:O2'	2.16	0.45
33:DL:77:ILE:HD13	33:DL:110:VAL:CA	2.44	0.45
23:BB:125:A:H5'	49:B2:19:ARG:HE	1.81	0.45
26:BD:146:ILE:HG21	26:BD:159:LYS:NZ	2.30	0.45
3:CD:54:LEU:O	3:CD:58:GLN:HB2	2.17	0.45
23:DB:2038:G:H2'	23:DB:2039:U:O4'	2.17	0.45
26:BD:29:VAL:HA	26:BD:185:ASN:CG	2.37	0.45
52:BI:121:ILE:O	52:BI:124:MET:HG2	2.16	0.45
38:DQ:88:GLU:OE2	39:DR:53:PHE:HB2	2.16	0.45
39:DR:4:VAL:O	39:DR:41:ILE:HG21	2.16	0.45
5:AF:7:VAL:O	5:AF:7:VAL:HG13	2.16	0.45
29:BG:75:VAL:HG23	29:BG:76:ILE:N	2.31	0.45
42:BU:3:LYS:HD2	42:BU:81:ARG:HH22	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1915:U:H3'	23:BB:1916:A:C8	2.50	0.45
11:AL:31:GLY:HA3	11:AL:54:VAL:CG1	2.46	0.45
23:BB:1184:U:H2'	23:BB:1185:G:H8	1.81	0.45
3:AD:56:GLU:HG2	3:AD:198:LEU:HD12	1.97	0.45
41:DT:38:ALA:HB1	41:DT:43:ILE:CD1	2.42	0.45
1:AA:1430:A:H2'	1:AA:1431:A:O4'	2.17	0.45
9:CJ:8:ILE:HD11	9:CJ:74:VAL:HB	1.98	0.45
16:CQ:10:ARG:CZ	16:CQ:55:GLY:N	2.79	0.45
36:DO:30:ARG:CG	36:DO:31:THR:H	2.28	0.45
4:CE:156:ARG:NH2	7:CH:100:ILE:HG23	2.32	0.45
2:CC:94:ALA:O	2:CC:96:VAL:N	2.50	0.45
14:CO:10:ILE:HG21	14:CO:30:LEU:CD2	2.45	0.45
42:DU:43:LYS:NZ	42:DU:43:LYS:HB2	2.30	0.45
23:BB:1790:C:H2'	23:BB:1791:A:C8	2.51	0.45
23:BB:764:A:N1	23:BB:1789:A:O2'	2.47	0.45
22:DA:55:U:H2'	22:DA:56:G:C8	2.51	0.45
23:DB:439:A:H2'	23:DB:440:C:O4'	2.16	0.45
23:BB:1803:A:H2	23:BB:1823:G:C1'	2.29	0.45
1:AA:411:A:C5	1:AA:413:G:H1'	2.51	0.45
1:AA:767:A:H2'	1:AA:768:A:H8	1.81	0.45
23:DB:315:G:O2'	23:DB:316:C:H5'	2.16	0.45
23:DB:1979:U:C2'	23:DB:1980:G:H5'	2.45	0.45
1:AA:22:G:O2'	1:AA:23:C:H5'	2.17	0.45
23:DB:1353:A:H2'	23:DB:1354:A:C8	2.50	0.45
32:DK:87:LEU:HD22	32:DK:92:GLU:O	2.17	0.45
1:CA:720:C:O4'	17:CR:38:ILE:HG12	2.16	0.45
23:DB:1683:U:H2'	23:DB:1684:G:C8	2.51	0.45
23:BB:2276:G:OP2	34:BM:83:GLY:HA3	2.16	0.45
29:DG:55:ASP:CG	29:DG:56:GLY:N	2.69	0.45
25:DC:235:GLU:CG	25:DC:237:ARG:HD3	2.46	0.45
23:DB:1910:G:O2'	23:DB:1911:U:H5'	2.16	0.45
40:DS:87:PRO:O	40:DS:88:ARG:CB	2.64	0.45
29:BG:104:LEU:HD12	29:BG:104:LEU:N	2.31	0.45
18:AS:11:ASP:HB2	18:AS:14:LEU:CD2	2.47	0.45
6:CG:41:ILE:HD13	6:CG:115:MET:HG3	1.97	0.45
1:AA:336:A:O2'	1:AA:337:G:H5'	2.15	0.45
23:BB:1760:C:H2'	23:BB:1761:C:O4'	2.16	0.45
6:AG:11:ILE:HD12	6:AG:11:ILE:H	1.80	0.45
23:DB:264:C:H2'	23:DB:265:A:H5''	1.98	0.45
7:CH:45:ILE:CD1	7:CH:60:LEU:HD11	2.46	0.45
23:BB:1541:C:H2'	23:BB:1542:U:O4'	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:76:ILE:HA	2:CC:83:VAL:CG2	2.46	0.45
23:DB:692:C:H2'	23:DB:693:A:H8	1.80	0.45
23:DB:257:C:H2'	23:DB:258:G:O4'	2.17	0.45
9:CJ:17:LEU:HD22	9:CJ:17:LEU:O	2.16	0.45
7:AH:104:SER:O	7:AH:122:GLY:HA3	2.16	0.45
1:AA:1473:G:H2'	1:AA:1474:U:O4'	2.16	0.45
7:AH:75:GLN:O	7:AH:126:CYS:HB2	2.17	0.45
23:BB:1597:A:H5''	23:BB:1598:A:H5'	1.97	0.45
23:DB:1704:C:O2'	23:DB:1705:A:H5'	2.16	0.45
1:CA:744:C:H2'	1:CA:745:G:C8	2.50	0.45
2:CC:38:VAL:O	2:CC:42:LEU:HD23	2.17	0.45
2:AC:70:ALA:HB2	2:AC:108:PRO:HB3	1.99	0.45
1:AA:880:C:H2'	1:AA:881:G:H8	1.81	0.45
26:BD:184:ARG:HG3	26:BD:184:ARG:O	2.16	0.45
30:DH:109:GLU:O	30:DH:109:GLU:HG3	2.16	0.45
3:AD:64:TYR:H	3:AD:64:TYR:HD1	1.64	0.45
15:AP:45:GLU:HG2	15:AP:45:GLU:O	2.16	0.45
3:CD:47:LEU:HD11	3:CD:52:VAL:N	2.31	0.45
23:DB:1099:G:C4'	52:DI:4:VAL:HB	2.43	0.45
37:BP:60:VAL:HB	37:BP:61:ARG:H	1.46	0.45
23:BB:1818:U:H2'	25:BC:152:GLN:O	2.17	0.45
25:BC:140:VAL:HA	25:BC:191:LEU:HA	1.98	0.45
25:BC:66:PHE:O	25:BC:67:LYS:C	2.55	0.45
25:BC:68:ARG:HD2	25:BC:127:ASN:ND2	2.27	0.45
23:DB:2830:C:O2'	23:DB:2831:G:H5'	2.17	0.45
31:BJ:25:LEU:HD13	31:BJ:25:LEU:H	1.81	0.45
31:BJ:25:LEU:CD1	31:BJ:62:VAL:HA	2.41	0.45
43:BW:58:LEU:HA	43:BW:79:ILE:HG22	1.98	0.45
23:DB:992:C:H4'	38:DQ:46:TYR:HH	1.81	0.45
38:DQ:52:ARG:HG2	38:DQ:53:LYS:CE	2.46	0.45
18:AS:43:MET:O	18:AS:46:LEU:HB2	2.16	0.45
30:BH:1:MET:C	30:BH:21:VAL:HG12	2.37	0.45
50:B3:12:ARG:CZ	50:B3:12:ARG:HB2	2.41	0.45
50:B3:16:THR:HG21	50:B3:22:LYS:NZ	2.32	0.45
34:BM:8:LYS:NZ	34:BM:70:ASP:H	2.10	0.45
24:BV:44:HIS:O	24:BV:48:MET:HB3	2.16	0.45
23:DB:137:U:O2'	23:DB:138:U:H5'	2.16	0.45
36:DO:25:ARG:HG2	36:DO:94:ARG:NH2	2.27	0.45
41:DT:68:LYS:HZ3	41:DT:68:LYS:HB2	1.79	0.45
23:BB:492:A:H2'	23:BB:493:G:O4'	2.16	0.45
40:BS:102:HIS:O	40:BS:103:ILE:HB	2.15	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:29:ARG:O	45:BY:30:ARG:HB2	2.17	0.45
40:DS:46:LEU:CA	40:DS:49:LYS:HB2	2.32	0.45
41:DT:30:ILE:O	41:DT:85:VAL:HG22	2.17	0.45
35:BN:86:ARG:NH2	35:BN:116:VAL:HG11	2.31	0.45
1:CA:1000:A:O2'	1:CA:1001:C:H5'	2.16	0.45
1:CA:1004:A:N7	1:CA:1025:U:O2'	2.48	0.45
31:BJ:50:THR:OG1	31:BJ:51:GLY:N	2.49	0.45
23:BB:997:G:C5'	38:BQ:91:ARG:HG3	2.47	0.45
12:AM:47:LEU:HB3	12:AM:51:GLN:HB2	1.97	0.45
40:BS:69:LEU:HA	40:BS:108:SER:O	2.16	0.45
23:BB:2261:C:O2'	23:BB:2262:U:H5'	2.15	0.45
27:BE:146:VAL:HG23	27:BE:148:ILE:CG2	2.46	0.45
27:BE:6:LYS:HB2	27:BE:12:LEU:CD1	2.46	0.45
51:B4:7:VAL:HG12	51:B4:8:LYS:N	2.25	0.45
30:DH:92:GLY:O	30:DH:93:SER:HB3	2.16	0.45
1:CA:1013:G:N2	1:CA:1015:G:H3'	2.32	0.45
41:BT:57:VAL:O	41:BT:85:VAL:HA	2.16	0.45
23:BB:2512:C:O2'	26:BD:146:ILE:HG12	2.15	0.45
27:DE:4:VAL:HA	27:DE:14:VAL:CG1	2.46	0.45
1:AA:1206:G:H4'	2:AC:192:TYR:HA	1.98	0.45
23:DB:780:G:OP1	25:DC:216:ARG:NH2	2.49	0.45
45:DY:6:ILE:O	45:DY:6:ILE:HG13	2.16	0.45
1:AA:1490:U:H5'	1:AA:1491:G:OP2	2.16	0.45
1:CA:1308:U:OP2	12:CM:97:ARG:HD3	2.16	0.45
4:CE:131:ASN:C	4:CE:135:VAL:HG23	2.35	0.45
8:CI:56:MET:HA	8:CI:59:LYS:HB2	1.98	0.45
28:DF:108:PRO:O	28:DF:109:ARG:HB2	2.17	0.45
35:BN:9:GLN:NE2	35:BN:17:ARG:NH2	2.65	0.45
28:DF:70:ARG:HA	28:DF:80:GLN:NE2	2.20	0.45
52:DI:96:LYS:HD3	52:DI:138:VAL:HG21	1.96	0.45
29:DG:171:LYS:HB2	29:DG:172:GLU:H	1.61	0.45
20:CB:209:VAL:HG23	20:CB:210:THR:N	2.31	0.45
36:BO:31:THR:HG21	36:BO:36:TYR:HE1	1.82	0.45
23:BB:2800:A:C4	23:BB:2801:G:H1'	2.51	0.45
25:DC:19:VAL:CG1	25:DC:20:ASN:N	2.80	0.45
23:BB:28:A:H1'	23:BB:513:A:C2	2.52	0.45
24:DV:93:ARG:HG2	24:DV:94:ALA:H	1.82	0.45
16:CQ:74:LEU:HD22	16:CQ:75:VAL:H	1.82	0.45
23:DB:2103:C:H3'	23:DB:2104:C:C2	2.51	0.45
1:CA:1187:G:H2'	1:CA:1188:A:O4'	2.16	0.45
20:CB:60:ALA:HB2	20:CB:66:ILE:HD11	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:16:HIS:O	35:DN:20:MET:N	2.41	0.45
1:CA:977:A:H8	1:CA:1223:C:N3	2.15	0.45
23:DB:2465:C:O2'	23:DB:2466:C:H5'	2.17	0.45
28:BF:33:ILE:HG22	28:BF:155:ILE:HA	1.98	0.45
19:CT:19:HIS:CE1	19:CT:23:ARG:HG3	2.51	0.45
17:AR:62:ARG:HD3	17:AR:69:TYR:HA	1.99	0.45
23:DB:1601:G:O2'	23:DB:1602:U:H5'	2.16	0.45
23:DB:522:A:H2'	23:DB:523:C:H6	1.80	0.45
23:DB:2147:A:C2'	23:DB:2147:A:N3	2.78	0.45
22:DA:12:C:H4'	22:DA:15:A:N6	2.32	0.45
22:DA:63:C:H2'	22:DA:64:G:C8	2.51	0.45
3:CD:30:LYS:HD3	3:CD:30:LYS:N	2.31	0.45
46:DZ:25:ARG:CG	46:DZ:26:SER:H	2.22	0.45
12:CM:79:LEU:HB2	12:CM:84:CYS:SG	2.57	0.45
1:CA:1124:G:H5'	9:CJ:37:ARG:HH21	1.81	0.45
9:CJ:36:VAL:HG22	9:CJ:76:ILE:HD13	1.98	0.45
1:CA:1054:C:O2'	1:CA:1055:A:H5''	2.17	0.45
28:BF:15:LEU:HD13	28:BF:28:PRO:CG	2.45	0.45
1:AA:167:A:H2'	1:AA:168:G:H8	1.81	0.45
15:CP:32:PHE:CD1	15:CP:32:PHE:C	2.90	0.45
1:CA:167:A:H2'	1:CA:168:G:H8	1.81	0.45
40:DS:85:ILE:HG12	40:DS:94:ASP:O	2.16	0.45
23:DB:345:A:N3	23:DB:346:A:N1	2.64	0.45
2:CC:99:GLN:O	2:CC:100:ILE:HB	2.16	0.45
1:AA:299:G:H2'	1:AA:300:A:C8	2.51	0.45
1:CA:299:G:H2'	1:CA:300:A:C8	2.51	0.45
29:DG:131:VAL:O	29:DG:131:VAL:HG13	2.15	0.45
23:DB:1708:C:H2'	23:DB:1709:U:H6	1.82	0.45
23:DB:2772:C:H2'	23:DB:2773:C:H6	1.81	0.45
23:BB:1289:C:H2'	23:BB:1290:C:C6	2.51	0.45
23:DB:1289:C:H2'	23:DB:1290:C:C6	2.51	0.45
1:CA:393:A:H5'	1:CA:483:C:O2'	2.15	0.45
23:DB:265:A:O2'	23:DB:266:G:H4'	2.17	0.45
23:DB:1047:G:H1'	23:DB:1110:G:N2	2.32	0.45
52:DI:9:LYS:HG2	52:DI:57:VAL:HG13	1.98	0.45
23:DB:1313:U:O2	23:DB:1313:U:C2'	2.64	0.45
23:DB:1322:A:H2'	23:DB:1323:C:H5'	1.98	0.45
23:DB:2207:C:H2'	23:DB:2208:C:H6	1.82	0.45
23:BB:1720:U:C2'	23:BB:1721:G:H5'	2.46	0.45
25:BC:198:GLU:C	25:BC:200:MET:H	2.18	0.45
1:CA:1456:A:H2'	1:CA:1457:G:H8	1.81	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:709:U:H2'	23:DB:710:U:C6	2.51	0.45
17:CR:61:ALA:HB3	17:CR:67:LEU:HD12	1.98	0.45
1:CA:7:A:H2	4:CE:125:LYS:HE2	1.82	0.45
10:CK:126:ARG:HG2	10:CK:126:ARG:HH11	1.80	0.45
12:AM:102:LYS:NZ	12:AM:102:LYS:HB2	2.31	0.45
23:DB:1668:A:N3	23:DB:1670:C:C4	2.84	0.45
23:DB:1099:G:H5''	52:DI:2:LYS:HB2	1.98	0.45
26:BD:12:THR:HB	26:BD:21:SER:O	2.15	0.45
43:DW:36:ILE:HG21	43:DW:68:PHE:HE1	1.79	0.45
25:BC:136:VAL:HA	25:BC:165:ALA:HA	1.99	0.45
25:BC:161:VAL:H	25:BC:193:GLU:CD	2.20	0.45
30:DH:4:ILE:HD11	30:DH:37:VAL:O	2.17	0.45
35:DN:96:ARG:NH1	35:DN:98:LEU:HD21	2.31	0.45
25:DC:152:GLN:HB3	25:DC:153:LEU:H	1.62	0.45
31:BJ:120:ARG:O	31:BJ:122:LEU:N	2.42	0.45
31:BJ:59:ALA:C	31:BJ:61:LYS:H	2.20	0.45
23:BB:2363:G:O2'	23:BB:2364:C:H5'	2.17	0.45
23:DB:534:U:H5'	38:DQ:41:ALA:CA	2.43	0.45
39:DR:76:LYS:HB3	39:DR:90:ARG:HG2	1.96	0.45
30:BH:50:ARG:HG2	30:BH:50:ARG:O	2.15	0.45
33:DL:50:PHE:O	33:DL:52:GLY:N	2.49	0.45
50:B3:26:ALA:HB3	50:B3:29:ARG:CZ	2.46	0.45
33:BL:82:LEU:HG	33:BL:122:VAL:HG12	1.99	0.45
39:DR:99:THR:HG23	39:DR:100:GLY:H	1.80	0.45
39:BR:53:PHE:HD2	39:BR:55:ASP:H	1.59	0.45
31:DJ:85:LYS:NZ	31:DJ:86:GLN:O	2.49	0.45
27:BE:194:LYS:HE3	27:BE:201:ALA:HB2	1.98	0.45
3:CD:141:VAL:HG12	3:CD:180:THR:CA	2.45	0.45
10:AK:112:VAL:HA	17:AR:72:ARG:HD3	1.99	0.45
21:CU:23:GLU:HA	21:CU:27:VAL:HG21	1.98	0.45
26:BD:115:GLY:HA2	26:BD:165:MET:CG	2.35	0.45
20:AB:72:LYS:NZ	20:AB:167:HIS:HB2	2.32	0.45
40:DS:22:ASP:C	40:DS:24:ILE:H	2.20	0.45
23:DB:1259:G:O2'	23:DB:1260:A:H5'	2.17	0.45
23:DB:359:G:C2'	23:DB:360:U:H5'	2.46	0.45
25:DC:227:VAL:HG13	25:DC:228:ASP:OD1	2.17	0.45
20:AB:204:ASP:CG	20:AB:205:ALA:N	2.70	0.45
23:BB:1060:U:C4	52:BI:131:THR:HG22	2.51	0.45
1:CA:1309:G:C5'	12:CM:76:ILE:HG12	2.46	0.45
48:B1:41:VAL:HB	48:B1:43:ARG:NH2	2.31	0.45
1:AA:836:G:H2'	1:AA:837:U:C6	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:25:ILE:HD11	29:BG:75:VAL:HG12	1.97	0.45
20:AB:96:LEU:HD21	20:AB:146:SER:HB2	1.98	0.45
21:CU:39:LYS:N	21:CU:40:PRO:HD2	2.21	0.45
14:AO:78:THR:HA	14:AO:81:ILE:CD1	2.46	0.45
40:BS:88:ARG:HB3	40:BS:89:ALA:H	1.57	0.45
5:CF:100:SER:N	17:CR:23:LYS:NZ	2.63	0.45
46:BZ:19:GLY:O	46:BZ:20:ASN:HB2	2.16	0.45
47:B0:54:ILE:O	47:B0:54:ILE:HG13	2.17	0.45
23:BB:327:G:O2'	23:BB:328:U:H5'	2.16	0.45
1:CA:812:G:C2'	1:CA:812:G:N3	2.77	0.45
23:BB:48:G:H4'	23:BB:52:A:O4'	2.16	0.45
23:BB:2301:C:O2'	23:BB:2302:U:H5'	2.17	0.45
36:DO:30:ARG:O	36:DO:31:THR:HB	2.16	0.45
29:BG:51:PHE:H	29:BG:68:ARG:HD3	1.80	0.45
33:DL:55:MET:SD	33:DL:56:PRO:HG3	2.56	0.45
16:CQ:46:HIS:CG	16:CQ:47:ASP:H	2.33	0.45
2:AC:186:SER:O	2:AC:197:VAL:HG12	2.16	0.45
23:DB:1553:A:O2'	23:DB:1554:U:H2'	2.16	0.45
35:BN:99:LYS:HZ2	35:BN:99:LYS:HB3	1.77	0.45
23:DB:1408:G:H2'	23:DB:1409:U:H6	1.80	0.45
23:DB:2529:G:H4'	29:DG:175:LYS:HD3	1.98	0.45
1:AA:962:C:H2'	1:AA:963:G:O4'	2.17	0.45
19:CT:34:VAL:CG1	19:CT:78:LEU:HD22	2.47	0.45
27:DE:23:PHE:CG	27:DE:24:ASN:N	2.85	0.45
4:AE:81:GLN:NE2	4:AE:147:ASN:N	2.65	0.45
15:AP:71:VAL:HA	15:AP:74:LEU:CG	2.45	0.45
23:BB:2038:G:H2'	23:BB:2039:U:H6	1.82	0.45
23:BB:2038:G:H2'	23:BB:2039:U:O4'	2.17	0.45
25:BC:260:LYS:C	25:BC:262:THR:N	2.70	0.45
39:BR:20:VAL:HG22	39:BR:97:LYS:HZ1	1.81	0.45
23:BB:2556:C:O2'	23:BB:2557:G:H5'	2.17	0.45
1:AA:1074:G:H5'	20:AB:104:LYS:HZ1	1.79	0.45
11:CL:36:VAL:HG12	11:CL:52:CYS:HB2	1.96	0.45
15:AP:29:ASN:N	15:AP:29:ASN:ND2	2.63	0.45
23:DB:2276:G:OP1	34:DM:82:MET:SD	2.75	0.45
23:DB:2243:U:O2	23:DB:2434:A:C2	2.69	0.45
23:BB:6:A:H5'	31:BJ:133:ALA:O	2.17	0.45
36:BO:97:PHE:O	36:BO:98:GLN:HG2	2.16	0.45
10:CK:60:PHE:O	10:CK:64:VAL:HG13	2.15	0.45
1:AA:1258:G:C4	1:AA:1278:G:N2	2.84	0.45
22:BA:29:A:H3'	22:BA:30:C:C6	2.49	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:52:ILE:HD11	35:DN:83:LEU:HD21	1.99	0.45
1:CA:525:C:H2'	1:CA:526:C:C6	2.51	0.45
3:AD:163:GLN:N	3:AD:163:GLN:OE1	2.50	0.45
23:BB:189:G:H2'	23:BB:205:G:H22	1.81	0.45
20:CB:132:GLU:HA	20:CB:135:MET:CE	2.47	0.45
23:DB:817:C:O2'	23:DB:839:U:H5''	2.17	0.45
1:CA:328:C:H4'	1:CA:329:A:H5''	1.98	0.45
31:BJ:52:ASP:CG	31:BJ:53:TYR:H	2.19	0.45
23:BB:1665:A:O2'	23:BB:1666:G:H5'	2.15	0.45
39:BR:14:VAL:HG12	39:BR:15:SER:N	2.32	0.45
7:AH:48:PHE:HB2	7:AH:60:LEU:HD12	1.99	0.45
23:BB:407:G:O2'	23:BB:408:G:H5'	2.16	0.45
1:AA:708:C:H2'	1:AA:709:U:H6	1.79	0.45
22:BA:64:G:O2'	22:BA:65:U:H5'	2.17	0.45
38:BQ:12:ARG:HH11	38:BQ:12:ARG:HG2	1.82	0.45
23:BB:760:G:H4'	23:BB:1776:G:OP1	2.16	0.45
23:DB:2714:G:H2'	23:DB:2715:C:C6	2.51	0.45
1:AA:744:C:H2'	1:AA:745:G:C8	2.50	0.45
1:CA:29:U:H5'	1:CA:296:U:OP1	2.17	0.45
27:DE:114:ARG:HG3	27:DE:114:ARG:NH1	2.32	0.45
21:AU:43:GLU:HA	21:AU:43:GLU:OE1	2.15	0.45
23:DB:2223:G:O2'	23:DB:2224:G:H5'	2.16	0.45
40:DS:81:SER:HB2	40:DS:99:ARG:H	1.81	0.45
23:DB:1098:A:C3'	52:DI:3:LYS:CA	2.69	0.45
37:DP:26:GLU:CD	37:DP:46:VAL:HG13	2.37	0.45
23:BB:2751:G:OP2	29:BG:3:VAL:HG13	2.16	0.45
1:CA:975:A:H2'	1:CA:976:G:OP2	2.17	0.45
23:DB:2363:G:O2'	23:DB:2364:C:H5'	2.16	0.45
43:DW:47:GLY:HA2	43:DW:71:LYS:O	2.16	0.45
23:BB:773:U:H4'	25:BC:47:ARG:CA	2.47	0.45
25:BC:163:ILE:HG22	25:BC:172:THR:HG21	1.98	0.45
47:D0:43:THR:O	47:D0:44:ALA:HB3	2.16	0.45
23:BB:2780:G:C2	31:BJ:120:ARG:HG3	2.51	0.45
39:DR:89:HIS:O	39:DR:90:ARG:CG	2.57	0.45
1:AA:1014:A:OP2	18:AS:17:LYS:NZ	2.45	0.45
23:DB:324:A:H61	23:DB:338:G:C2'	2.30	0.45
33:BL:120:VAL:CG1	33:BL:138:ALA:HB3	2.47	0.45
46:BZ:50:ASP:O	46:BZ:53:THR:HG22	2.16	0.45
23:BB:1450:G:N2	23:BB:1452:G:H1	1.95	0.45
8:AI:46:VAL:HB	8:AI:79:ARG:HD3	1.97	0.45
35:BN:32:GLU:O	35:BN:114:GLU:HA	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CB:95:TRP:HZ2	20:CB:100:LEU:HD13	1.81	0.45
40:BS:29:VAL:C	40:BS:31:GLN:N	2.69	0.45
23:DB:1199:U:C2	23:DB:1200:C:C6	3.05	0.45
18:AS:4:LEU:O	18:AS:6:LYS:N	2.49	0.45
30:DH:122:LEU:CD1	30:DH:146:VAL:HG22	2.41	0.45
13:CN:14:ALA:HA	13:CN:17:ASP:OD2	2.16	0.45
33:DL:78:ARG:HA	33:DL:113:ALA:HB2	1.97	0.45
23:BB:137:U:O5'	23:BB:137:U:H6	1.99	0.45
41:BT:15:HIS:CB	41:BT:31:VAL:HG21	2.46	0.45
44:BX:22:LEU:HA	44:BX:47:ARG:NH2	2.32	0.45
23:BB:2722:G:H2'	23:BB:2723:C:H6	1.82	0.45
26:BD:165:MET:HG3	26:BD:166:GLY:N	2.32	0.45
20:AB:9:LEU:CD2	20:AB:11:ALA:H	2.17	0.45
28:DF:35:LEU:HD23	28:DF:153:ILE:HG12	1.99	0.45
45:DY:6:ILE:HD11	45:DY:35:VAL:CB	2.47	0.45
23:DB:2684:U:H4'	32:DK:76:VAL:CG2	2.43	0.45
26:DD:23:PRO:HB3	26:DD:188:LEU:HG	1.97	0.45
5:AF:1:MET:HB3	5:AF:65:GLU:O	2.16	0.45
48:B1:42:VAL:CG1	48:B1:43:ARG:HE	2.28	0.45
42:BU:3:LYS:HD2	42:BU:81:ARG:NH2	2.31	0.45
4:CE:36:THR:CG2	4:CE:37:VAL:H	2.25	0.45
12:AM:21:ILE:HG22	12:AM:64:VAL:CG1	2.44	0.45
2:AC:112:ALA:HB1	2:AC:199:VAL:HG23	1.99	0.45
23:DB:2886:A:C2	23:DB:2887:A:N7	2.85	0.45
1:CA:950:U:H2'	1:CA:951:G:H8	1.82	0.45
9:CJ:40:ILE:CD1	9:CJ:73:LEU:HB3	2.46	0.45
23:DB:1790:C:H2'	23:DB:1791:A:C8	2.52	0.45
11:CL:72:ASN:ND2	11:CL:73:LEU:H	2.15	0.45
23:DB:544:C:O2'	23:DB:545:U:O4'	2.34	0.45
1:CA:1060:U:C5'	9:CJ:53:ILE:HG12	2.46	0.45
23:BB:1410:G:H2'	23:BB:1411:U:H6	1.77	0.45
22:DA:57:A:H2	28:DF:29:ARG:HH22	1.61	0.45
39:BR:66:HIS:CA	39:BR:98:ILE:HD13	2.45	0.45
22:DA:66:A:O2'	22:DA:67:G:C5'	2.61	0.45
23:BB:215:G:O4'	23:BB:216:A:H4'	2.17	0.45
22:BA:18:G:H2'	22:BA:19:C:C6	2.52	0.45
15:AP:7:ALA:HB1	15:AP:29:ASN:CB	2.47	0.45
34:DM:81:ARG:HB2	34:DM:81:ARG:NH1	2.32	0.45
23:BB:1885:A:H3'	23:BB:1886:U:C6	2.51	0.45
5:CF:22:ILE:O	5:CF:26:THR:HG23	2.16	0.45
23:DB:38:A:H1'	27:DE:43:THR:O	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:364:C:O2'	23:BB:365:U:H5'	2.16	0.45
1:CA:12:U:H4'	1:CA:526:C:H4'	1.98	0.45
23:BB:2187:U:H2'	23:BB:2187:U:O2	2.16	0.45
23:DB:2340:A:H2'	23:DB:2341:G:H8	1.81	0.45
41:BT:25:GLU:CG	41:BT:26:LYS:N	2.79	0.45
23:BB:1708:C:H2'	23:BB:1709:U:H6	1.81	0.45
6:AG:71:THR:HA	6:AG:90:VAL:HG22	1.99	0.45
1:CA:1065:U:H1'	1:CA:1066:C:OP2	2.17	0.45
3:AD:98:ASP:CG	3:AD:132:ALA:HB1	2.36	0.45
23:BB:1125:G:H3'	23:BB:1126:A:H5''	1.98	0.45
1:CA:613:C:H2'	1:CA:614:C:H6	1.82	0.45
7:CH:17:GLN:HG3	7:CH:71:VAL:HG21	1.99	0.45
1:CA:564:C:C5	16:CQ:32:ILE:HD11	2.52	0.45
23:BB:539:G:H2'	23:BB:540:C:H6	1.81	0.45
23:BB:2710:C:H2'	23:BB:2711:A:H8	1.80	0.45
1:AA:1410:A:H2'	1:AA:1411:C:H6	1.79	0.45
23:DB:2835:A:H61	23:DB:2878:U:H2'	1.80	0.45
52:DI:53:PRO:HG2	52:DI:77:VAL:HG11	1.98	0.45
1:CA:1425:U:H2'	1:CA:1426:G:H8	1.82	0.45
1:AA:29:U:O2'	1:AA:30:U:H5'	2.17	0.45
4:CE:125:LYS:HE3	4:CE:127:TYR:CE1	2.52	0.45
1:AA:972:C:H4'	9:AJ:59:LYS:HB3	1.99	0.45
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.82	0.45
1:CA:820:U:H4'	1:CA:821:G:OP2	2.16	0.45
1:AA:718:A:H5'	10:AK:118:ASN:HB2	1.97	0.45
44:BX:16:THR:O	44:BX:20:ASN:HB2	2.17	0.45
1:AA:1197:A:P	1:AA:1197:A:H3'	2.57	0.45
1:CA:880:C:H2'	1:CA:881:G:H8	1.81	0.45
37:DP:83:ILE:H	37:DP:83:ILE:HG13	1.51	0.45
30:BH:94:ILE:HA	30:BH:98:ASP:OD2	2.17	0.45
23:BB:37:C:C2'	27:BE:46:GLN:CG	2.77	0.45
23:DB:2259:U:C6	23:DB:2427:C:C5	3.05	0.45
36:DO:18:LEU:CD1	43:DW:76:ARG:HH21	2.29	0.45
25:BC:140:VAL:CG1	25:BC:163:ILE:HD11	2.46	0.45
25:DC:163:ILE:HG22	25:DC:164:VAL:N	2.32	0.45
25:DC:63:ILE:CG2	25:DC:64:VAL:N	2.79	0.45
31:BJ:93:ILE:CD1	31:BJ:100:VAL:HG11	2.46	0.45
39:DR:76:LYS:HA	39:DR:91:GLN:N	2.31	0.45
23:BB:340:A:H2'	23:BB:341:C:C5'	2.47	0.45
27:DE:149:ILE:HD11	27:DE:187:VAL:N	2.31	0.45
33:BL:122:VAL:HG23	33:BL:140:GLY:O	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BL:60:ARG:HD2	50:B3:7:ARG:CZ	2.47	0.45
38:BQ:33:VAL:CG1	38:BQ:34:ALA:H	2.14	0.45
23:DB:1796:U:O3'	25:DC:251:THR:HA	2.16	0.45
42:BU:44:HIS:HB2	42:BU:56:GLY:H	1.80	0.45
40:DS:10:ALA:O	40:DS:11:ARG:HB3	2.17	0.45
18:CS:39:ILE:HB	18:CS:66:VAL:HA	1.98	0.45
5:CF:62:MET:HG3	5:CF:64:VAL:CG2	2.42	0.45
38:BQ:61:ILE:HB	38:BQ:75:TYR:CZ	2.52	0.45
46:DZ:54:GLY:H	46:DZ:57:VAL:CG2	2.14	0.45
1:CA:1102:A:O2'	1:CA:1103:C:H5'	2.17	0.45
40:BS:31:GLN:HB3	40:BS:35:ILE:HG22	1.99	0.45
27:BE:191:ASP:C	27:BE:193:VAL:H	2.20	0.45
3:CD:141:VAL:HG23	3:CD:141:VAL:O	2.16	0.45
26:DD:186:LEU:HD11	37:DP:5:LYS:HE2	1.98	0.45
23:DB:633:A:H2'	23:DB:634:C:O4'	2.16	0.45
49:B2:18:PHE:HB3	49:B2:19:ARG:H	1.51	0.45
41:BT:61:LEU:CD1	41:BT:62:VAL:H	2.28	0.45
1:AA:796:C:H4'	10:AK:126:ARG:HH21	1.82	0.45
23:DB:2420:C:C5	50:D3:30:HIS:O	2.70	0.45
2:CC:59:PRO:CG	2:CC:62:SER:HB2	2.33	0.45
27:BE:57:LYS:HA	27:BE:57:LYS:CE	2.47	0.45
2:AC:156:LEU:CD1	2:AC:156:LEU:H	2.11	0.45
1:CA:451:A:OP2	15:CP:70:ARG:NH2	2.50	0.45
44:DX:26:PHE:HA	44:DX:29:ARG:HD2	1.97	0.45
26:BD:52:THR:HG22	26:BD:75:ALA:CB	2.44	0.45
32:DK:71:ARG:HB3	32:DK:72:PRO:CD	2.46	0.45
38:DQ:87:VAL:CG2	39:DR:54:VAL:HG11	2.46	0.45
33:DL:118:THR:HG23	33:DL:119:PRO:HD3	1.97	0.45
33:DL:39:LYS:NZ	33:DL:39:LYS:N	2.64	0.45
1:AA:36:C:H2'	1:AA:37:U:O4'	2.17	0.45
45:BY:3:THR:O	45:BY:6:ILE:HG23	2.17	0.45
2:AC:8:GLY:HA2	2:AC:11:LEU:CG	2.43	0.45
31:DJ:14:ASP:HB3	31:DJ:16:TYR:CD1	2.52	0.45
10:CK:69:CYS:O	10:CK:73:VAL:N	2.49	0.45
23:DB:1175:A:H2'	23:DB:1176:U:C5'	2.42	0.45
9:AJ:87:LEU:H	9:AJ:88:MET:HE1	1.82	0.45
1:AA:89:U:O2'	1:AA:90:C:O5'	2.33	0.45
23:DB:1773:A:C8	23:DB:1829:A:C8	3.05	0.45
1:CA:551:U:O2'	1:CA:552:U:H5'	2.17	0.45
23:DB:730:A:C4'	25:DC:16:VAL:HG13	2.47	0.45
8:CI:26:LYS:HG3	8:CI:61:ASP:HB2	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:185:THR:HG22	2:AC:186:SER:N	2.26	0.45
23:BB:1275:A:N3	23:BB:1275:A:C3'	2.78	0.45
23:DB:483:A:C2'	23:DB:484:C:H5'	2.43	0.45
23:DB:1700:A:C2'	23:DB:1701:A:H5'	2.44	0.45
40:DS:1:MET:HB3	40:DS:4:ILE:HD12	1.98	0.45
39:BR:16:GLU:HG3	39:BR:17:GLY:H	1.82	0.45
1:AA:731:G:OP1	1:AA:766:A:H1'	2.17	0.45
29:DG:71:LEU:O	29:DG:74:MET:HB2	2.16	0.45
42:DU:82:VAL:HB	42:DU:94:PHE:CB	2.43	0.45
1:CA:1130:A:H2'	1:CA:1131:G:H8	1.81	0.45
7:AH:54:THR:HG23	7:AH:55:LYS:HG2	1.99	0.45
23:BB:2759:G:H21	29:BG:138:GLN:HE22	1.64	0.45
20:AB:186:VAL:CG2	20:AB:198:VAL:HG23	2.47	0.45
1:CA:404:G:H2'	1:CA:405:U:C6	2.52	0.45
23:DB:1760:C:H2'	23:DB:1761:C:O4'	2.16	0.45
1:CA:1158:C:O2'	20:CB:131:LYS:HD3	2.16	0.45
23:DB:844:A:C2	23:DB:845:A:N1	2.84	0.45
1:AA:847:G:H2'	1:AA:848:C:H6	1.82	0.45
1:CA:611:C:H2'	1:CA:612:C:H6	1.80	0.45
1:CA:902:G:H2'	1:CA:903:G:C8	2.51	0.45
23:BB:350:G:H2'	23:BB:351:C:H6	1.82	0.45
37:BP:15:ASP:N	37:BP:15:ASP:OD1	2.49	0.45
2:CC:177:LEU:HD22	2:CC:177:LEU:H	1.81	0.45
30:BH:24:GLY:HA2	30:BH:27:ARG:HH12	1.81	0.45
23:DB:747:U:O3'	40:DS:89:ALA:HB3	2.17	0.45
30:BH:39:ALA:O	30:BH:44:ILE:HD11	2.17	0.45
32:BK:28:SER:O	32:BK:29:HIS:HB2	2.17	0.45
3:AD:172:VAL:HA	3:AD:178:GLU:O	2.16	0.45
1:CA:1453:G:H2'	1:CA:1454:G:O4'	2.17	0.45
23:BB:829:A:H4'	55:BB:3324:HOH:O	2.16	0.45
22:BA:94:A:H2'	22:BA:95:U:O4'	2.17	0.45
45:BY:27:GLY:C	45:BY:28:LEU:HD12	2.37	0.45
22:BA:99:A:H2'	22:BA:99:A:N3	2.32	0.45
37:BP:114:ASN:N	37:BP:114:ASN:ND2	2.61	0.45
23:DB:476:G:N2	23:DB:478:A:H3'	2.32	0.45
48:D1:31:GLU:HG2	48:D1:32:LYS:HG3	1.98	0.45
23:BB:515:A:H3'	23:BB:516:C:H6	1.80	0.45
23:DB:2685:G:OP1	37:DP:62:LYS:NZ	2.47	0.45
23:DB:99:U:O2	23:DB:99:U:O4'	2.33	0.45
23:BB:85:G:H5''	42:BU:28:LEU:HD23	1.99	0.45
20:CB:34:ARG:NE	20:CB:39:ILE:HG13	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:975:A:OP2	1:CA:975:A:H4'	2.16	0.45
51:D4:10:LEU:HD12	51:D4:10:LEU:N	2.32	0.45
26:BD:13:ARG:HB2	26:BD:21:SER:CB	2.46	0.45
23:DB:1821:A:H5'	25:DC:155:ARG:NH2	2.28	0.45
25:DC:156:SER:O	25:DC:194:VAL:O	2.35	0.45
23:BB:1019:U:O2'	23:BB:1021:A:C2	2.64	0.45
36:BO:41:ALA:H	36:BO:48:LEU:HB3	1.81	0.45
42:DU:3:LYS:O	42:DU:4:ILE:HB	2.17	0.45
30:BH:21:VAL:HG13	30:BH:22:LYS:O	2.16	0.45
27:DE:135:ALA:O	27:DE:139:LYS:HB3	2.16	0.45
34:BM:68:PHE:HA	34:BM:69:PRO:HD2	1.76	0.45
24:BV:83:LYS:O	24:BV:85:LYS:N	2.49	0.45
38:BQ:39:ILE:CG2	39:BR:80:ARG:HD3	2.47	0.45
23:DB:1803:A:H2	23:DB:1823:G:C1'	2.29	0.45
1:AA:404:G:H2'	1:AA:405:U:C6	2.52	0.45
23:BB:481:G:OP2	42:BU:43:LYS:HG3	2.16	0.45
23:BB:2772:C:H2'	23:BB:2773:C:H6	1.81	0.45
28:BF:148:VAL:O	28:BF:150:GLY:N	2.50	0.45
23:BB:997:G:O2'	23:BB:998:C:H5'	2.17	0.45
31:BJ:45:THR:HB	38:BQ:63:ARG:CZ	2.46	0.45
47:B0:28:SER:HB2	47:B0:34:GLY:H	1.78	0.45
47:B0:42:ILE:HG21	47:B0:47:TYR:CE1	2.51	0.45
24:BV:72:VAL:HA	24:BV:94:ALA:H	1.81	0.45
23:BB:1601:G:O2'	23:BB:1602:U:H5'	2.16	0.45
41:BT:29:THR:O	41:BT:30:ILE:HD12	2.17	0.45
41:BT:9:LYS:HG2	44:BX:22:LEU:HD11	1.99	0.45
23:BB:2821:A:H2'	23:BB:2822:G:H8	1.82	0.45
23:BB:741:U:H2'	23:BB:742:A:H8	1.80	0.45
21:CU:16:ARG:HA	21:CU:19:LYS:HZ3	1.82	0.45
26:BD:26:VAL:O	26:BD:26:VAL:HG23	2.17	0.45
26:BD:70:LYS:HA	26:BD:70:LYS:CE	2.37	0.45
39:BR:62:GLU:OE1	39:BR:62:GLU:N	2.49	0.45
39:DR:44:GLY:N	39:DR:53:PHE:CE2	2.84	0.45
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.31	0.45
21:CU:33:ARG:HB3	21:CU:34:ARG:H	1.65	0.45
11:AL:35:ARG:HG3	11:AL:36:VAL:N	2.27	0.45
14:CO:69:LEU:HD12	14:CO:77:TYR:N	2.31	0.45
35:BN:22:ARG:NH1	35:BN:69:ARG:HA	2.32	0.45
23:BB:1057:A:C8	23:BB:1086:A:C8	3.05	0.45
38:DQ:101:ASP:OD1	38:DQ:104:ALA:HB3	2.17	0.45
39:DR:69:GLY:HA2	39:DR:97:LYS:N	2.29	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:37:ARG:HH11	45:BY:37:ARG:HG3	1.82	0.45
2:AC:51:VAL:HA	2:AC:69:THR:HB	1.99	0.45
30:BH:121:VAL:HG21	30:BH:128:HIS:NE2	2.31	0.45
23:BB:1184:U:H2'	23:BB:1185:G:C8	2.52	0.45
1:AA:238:A:C3'	1:AA:239:U:H5''	2.47	0.45
1:CA:1451:U:C5'	1:CA:1452:C:OP2	2.59	0.45
3:AD:99:ASN:HD21	3:AD:110:ARG:HE	1.64	0.45
48:D1:8:ILE:CG2	48:D1:27:ARG:HD3	2.46	0.45
9:AJ:87:LEU:HD13	9:AJ:87:LEU:C	2.37	0.45
37:BP:105:LYS:HG3	37:BP:107:ALA:H	1.81	0.45
1:AA:81:A:N3	1:AA:82:G:N7	2.65	0.45
23:DB:1791:A:N1	23:DB:1829:A:H5'	2.31	0.45
4:CE:110:MET:O	4:CE:114:LEU:HG	2.16	0.45
20:AB:59:ILE:C	20:AB:59:ILE:HD12	2.37	0.45
22:BA:22:U:H2'	22:BA:23:G:C8	2.51	0.45
23:DB:2464:G:H2'	23:DB:2465:C:C6	2.52	0.45
23:DB:437:U:O2'	23:DB:438:G:H5'	2.16	0.45
15:AP:22:ALA:HB2	15:AP:32:PHE:HB3	1.98	0.45
39:BR:35:PHE:HB2	39:BR:64:VAL:CG2	2.47	0.45
41:BT:66:LYS:O	41:BT:67:VAL:HB	2.17	0.45
1:AA:1522:U:O2'	1:AA:1523:G:H5'	2.16	0.45
12:AM:77:LYS:HE3	12:AM:81:ASP:HB3	1.99	0.45
3:AD:186:GLU:C	3:AD:190:LEU:HD13	2.37	0.45
1:CA:1136:C:H6	1:CA:1136:C:O5'	2.00	0.45
1:CA:1387:G:H2'	1:CA:1388:C:H6	1.79	0.45
8:CI:120:ALA:O	8:CI:121:ARG:HG2	2.17	0.45
23:DB:38:A:N3	27:DE:43:THR:HG22	2.32	0.45
23:DB:904:G:H2'	23:DB:905:A:H8	1.82	0.45
23:BB:2340:A:H2'	23:BB:2341:G:H8	1.82	0.45
1:CA:334:C:H2'	1:CA:335:C:H6	1.81	0.45
23:DB:1843:C:H2'	23:DB:1844:C:H6	1.81	0.45
22:BA:109:A:H2'	22:BA:110:C:C6	2.51	0.45
52:DI:89:SER:HA	52:DI:97:VAL:CG1	2.47	0.45
2:CC:41:TYR:N	2:CC:41:TYR:CD2	2.83	0.45
51:B4:13:ASN:ND2	51:B4:13:ASN:N	2.63	0.45
1:AA:607:A:H2'	1:AA:608:A:C8	2.52	0.45
23:DB:40:U:H2'	23:DB:41:C:C6	2.52	0.45
1:CA:1516:G:N1	1:CA:1519:A:OP2	2.50	0.45
23:DB:257:C:H3'	23:DB:258:G:H8	1.82	0.45
15:CP:48:GLU:HG2	15:CP:50:THR:H	1.81	0.45
25:DC:130:PRO:HA	25:DC:188:ARG:HA	1.98	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2188:U:H2'	23:DB:2189:U:O4'	2.16	0.45
11:CL:13:ARG:O	11:CL:14:LYS:HB3	2.16	0.45
11:CL:14:LYS:HZ3	11:CL:16:ALA:H	1.65	0.45
9:AJ:68:ARG:HB3	9:AJ:70:HIS:NE2	2.32	0.45
23:DB:1076:C:O2'	23:DB:1077:A:H5'	2.17	0.45
23:DB:259:G:O2'	23:DB:260:G:H5'	2.16	0.45
1:AA:740:U:O3'	14:AO:38:LEU:HD21	2.16	0.45
23:DB:2884:U:C2	47:D0:48:TYR:CZ	3.04	0.45
6:AG:59:GLU:O	6:AG:63:VAL:HG23	2.17	0.45
23:DB:97:C:H2'	23:DB:98:G:O4'	2.17	0.45
25:BC:153:LEU:CD2	25:BC:153:LEU:H	2.26	0.45
23:DB:1820:U:N3	25:DC:197:ALA:HB1	2.27	0.45
25:DC:86:ARG:HH11	25:DC:86:ARG:HB2	1.81	0.45
43:BW:24:ARG:HB3	43:BW:57:THR:O	2.16	0.45
18:AS:29:PRO:CA	18:AS:47:THR:HB	2.47	0.45
42:DU:27:VAL:CB	42:DU:33:VAL:HG22	2.46	0.45
30:BH:2:GLN:HE22	30:BH:20:ASN:N	2.14	0.45
23:BB:2465:C:O2'	23:BB:2466:C:H5'	2.16	0.45
16:AQ:74:LEU:HD13	16:AQ:74:LEU:C	2.37	0.45
1:AA:402:G:H2'	1:AA:403:C:C6	2.52	0.45
23:BB:992:C:H2'	23:BB:993:G:C8	2.51	0.45
41:DT:49:LYS:O	41:DT:51:PHE:N	2.41	0.45
8:AI:51:LEU:HD23	8:AI:56:MET:HE3	1.99	0.45
13:AN:81:ILE:HD12	13:AN:82:LYS:N	2.31	0.45
33:DL:92:LEU:HB2	33:DL:125:LEU:HD11	1.99	0.45
23:BB:139:U:C2	41:BT:1:MET:HG2	2.51	0.45
26:BD:128:ARG:NH1	26:BD:144:GLY:HA2	2.32	0.45
23:DB:2651:C:O2'	23:DB:2652:C:H5'	2.17	0.45
44:DX:17:GLU:HA	44:DX:21:LEU:CB	2.46	0.45
25:BC:224:MET:HE2	25:BC:233:GLY:O	2.17	0.45
23:DB:1286:A:H1'	23:DB:1288:G:OP2	2.17	0.45
34:DM:33:LEU:HD21	34:DM:124:LEU:HD13	1.98	0.45
35:BN:73:ASN:HA	35:BN:76:VAL:CG1	2.46	0.45
31:DJ:73:VAL:HA	31:DJ:88:THR:O	2.17	0.45
4:CE:89:THR:C	4:CE:91:SER:H	2.18	0.45
1:AA:662:U:H2'	1:AA:663:A:H8	1.76	0.45
23:DB:2144:G:C2	23:DB:2146:C:H5'	2.52	0.45
2:AC:5:HIS:O	2:AC:9:ILE:HG22	2.16	0.45
1:CA:1098:C:O2'	1:CA:1099:G:H5'	2.16	0.45
38:BQ:73:ILE:HG13	38:BQ:77:LYS:HD2	1.99	0.45
1:CA:239:U:H5'	1:CA:239:U:H6	1.80	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2830:C:O2'	23:BB:2831:G:H5'	2.17	0.45
2:AC:153:SER:CB	2:AC:196:GLY:H	2.27	0.45
1:CA:1227:A:H4'	12:CM:113:LYS:HE2	1.97	0.45
50:B3:35:LYS:O	50:B3:36:ALA:HB3	2.16	0.45
23:DB:544:C:H2'	23:DB:545:U:C2	2.52	0.45
23:DB:547:A:N3	23:DB:547:A:C2'	2.77	0.45
11:CL:82:ARG:HB2	11:CL:97:VAL:HG13	1.98	0.45
25:DC:259:ASN:O	25:DC:261:ARG:HG3	2.17	0.45
38:BQ:103:VAL:HG23	38:BQ:104:ALA:N	2.31	0.45
16:CQ:60:ILE:HG22	16:CQ:74:LEU:HA	1.98	0.45
4:CE:82:HIS:NE2	4:CE:146:MET:HB2	2.31	0.45
28:DF:7:TYR:HA	28:DF:11:VAL:HB	1.98	0.45
22:BA:78:A:O2'	22:BA:79:G:H5'	2.17	0.45
20:AB:140:LEU:HB3	20:AB:144:GLU:OE2	2.17	0.45
20:CB:211:LEU:HG	20:CB:212:TYR:N	2.32	0.45
22:DA:6:G:O2'	22:DA:7:G:H5'	2.16	0.45
1:CA:1128:C:H4'	1:CA:1148:U:O2	2.17	0.45
23:BB:1509:A:C5'	23:BB:1510:G:H5'	2.47	0.45
15:CP:32:PHE:HD1	15:CP:32:PHE:C	2.20	0.45
23:BB:1683:U:H2'	23:BB:1684:G:C8	2.51	0.45
40:DS:36:LEU:HA	40:DS:39:THR:CG2	2.47	0.45
1:AA:24:U:O2'	1:AA:25:C:H5'	2.16	0.45
12:AM:8:ILE:O	12:AM:8:ILE:HG13	2.17	0.45
52:DI:99:LYS:HB2	52:DI:140:GLU:OE1	2.16	0.45
1:CA:1488:G:H2'	1:CA:1489:G:H8	1.82	0.45
23:BB:1987:A:H2'	23:BB:1988:G:H8	1.82	0.45
23:BB:1322:A:H2'	23:BB:1323:C:H5'	1.98	0.45
23:BB:2708:G:H4'	35:BN:68:ALA:HB1	1.99	0.45
23:DB:510:C:O2'	23:DB:1236:G:H5'	2.17	0.45
14:CO:63:ARG:HH21	14:CO:87:ARG:NH1	2.15	0.45
1:CA:1382:C:H5'	6:CG:78:ARG:HE	1.82	0.45
7:CH:29:SER:O	7:CH:30:LYS:C	2.55	0.45
1:AA:1399:C:H1'	55:AA:1970:HOH:O	2.16	0.45
29:DG:103:ASN:HA	29:DG:112:VAL:O	2.17	0.45
29:DG:100:ASN:HA	29:DG:116:LEU:HD11	1.99	0.45
23:BB:1100:C:H2'	23:BB:1101:U:H6	1.81	0.45
36:DO:98:GLN:O	36:DO:99:TYR:HB2	2.17	0.45
23:DB:2673:G:H2'	23:DB:2674:G:C8	2.52	0.45
11:AL:17:LYS:HB2	11:AL:17:LYS:HE3	1.82	0.45
2:CC:10:ARG:HG2	2:CC:10:ARG:HH11	1.82	0.45
29:DG:141:GLY:O	29:DG:144:ALA:HB3	2.16	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1515:G:O2'	1:AA:1516:G:H5'	2.17	0.45
27:BE:7:ASP:O	27:BE:8:ALA:HB3	2.17	0.45
52:BI:38:CYS:O	52:BI:42:ASN:ND2	2.49	0.45
26:DD:14:ILE:O	26:DD:15:PHE:HD1	2.00	0.45
32:DK:78:ARG:H	37:DP:72:VAL:HG23	1.82	0.45
33:DL:7:SER:CB	33:DL:8:PRO:CD	2.87	0.45
30:DH:8:LYS:HA	30:DH:13:GLY:O	2.17	0.45
30:DH:4:ILE:HD13	30:DH:37:VAL:HG13	1.98	0.45
25:DC:71:ASP:HA	25:DC:117:SER:OG	2.17	0.45
38:DQ:17:LEU:O	38:DQ:20:ALA:HB3	2.17	0.45
23:BB:338:G:C2	23:BB:339:U:C1'	2.99	0.45
30:BH:11:ASN:HD22	30:BH:12:LEU:N	2.10	0.45
33:BL:60:ARG:HD3	50:B3:11:LYS:NZ	2.31	0.45
50:B3:44:ARG:HG2	50:B3:44:ARG:NH1	2.32	0.45
23:BB:2673:G:H2'	23:BB:2674:G:C8	2.52	0.45
32:BK:8:LEU:HB3	32:BK:84:CYS:SG	2.57	0.45
26:BD:148:GLN:HB3	26:BD:151:THR:HG21	1.98	0.45
38:BQ:16:ILE:HD11	38:BQ:31:TYR:CD1	2.52	0.45
38:BQ:35:PHE:CA	38:BQ:39:ILE:HD12	2.46	0.45
1:AA:408:A:OP1	3:AD:111:ALA:HB3	2.17	0.45
13:AN:60:ARG:HE	13:AN:62:ARG:CZ	2.30	0.45
23:BB:811:U:C6	33:BL:29:LYS:HD3	2.52	0.45
23:BB:527:C:H5'	55:BB:3419:HOH:O	2.17	0.45
31:DJ:5:THR:HG23	31:DJ:7:LYS:HD3	1.99	0.45
28:BF:135:ILE:HG23	28:BF:136:ILE:N	2.31	0.45
18:CS:50:VAL:CG2	18:CS:70:LEU:HG	2.45	0.45
12:AM:44:ILE:CA	12:AM:47:LEU:HD13	2.47	0.45
3:CD:104:MET:HG3	3:CD:142:VAL:HG21	1.99	0.45
3:CD:98:ASP:OD2	3:CD:99:ASN:N	2.50	0.45
10:AK:80:ASN:HD21	10:AK:107:THR:HG23	1.82	0.45
26:DD:77:ARG:HB2	26:DD:77:ARG:CZ	2.47	0.45
26:DD:7:LYS:HB3	26:DD:201:LEU:HD22	1.98	0.45
30:DH:94:ILE:O	30:DH:122:LEU:HB2	2.16	0.45
28:DF:15:LEU:HD13	28:DF:28:PRO:HG2	1.98	0.45
23:BB:143:C:C3'	23:BB:144:A:C8	3.00	0.45
8:CI:115:VAL:HG22	8:CI:116:GLY:N	2.32	0.45
21:CU:7:GLU:OE1	21:CU:11:PHE:HZ	2.00	0.45
27:DE:17:THR:CG2	27:DE:18:THR:H	2.28	0.45
17:CR:33:THR:HG23	17:CR:35:SER:H	1.81	0.45
23:DB:2649:C:H2'	23:DB:2650:U:C6	2.52	0.45
23:BB:2651:C:O2'	23:BB:2652:C:H5'	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:38:LYS:HG2	26:BD:39:ASP:N	2.22	0.45
45:DY:3:THR:O	45:DY:36:GLU:HA	2.16	0.45
26:DD:172:VAL:CG1	26:DD:175:LEU:HD11	2.46	0.45
4:CE:137:ARG:NH1	4:CE:137:ARG:HG2	2.31	0.45
1:CA:1250:A:C5'	8:CI:69:GLY:H	2.29	0.45
5:AF:66:ALA:HB1	5:AF:67:PRO:HD2	1.99	0.45
11:AL:52:CYS:SG	11:AL:66:ILE:HD11	2.56	0.45
23:DB:1148:U:O2'	23:DB:1149:G:H5'	2.15	0.45
20:AB:96:LEU:H	20:AB:99:MET:HE3	1.82	0.45
35:BN:101:GLY:H	35:BN:110:MET:H	1.65	0.45
23:BB:463:G:N2	23:BB:466:A:OP2	2.48	0.45
23:BB:2319:G:C2	23:BB:2321:U:O4	2.70	0.45
23:DB:1454:C:H5'	35:DN:63:ARG:HD2	1.97	0.45
34:BM:109:PRO:O	34:BM:112:LEU:HB2	2.17	0.45
34:DM:134:THR:HG22	34:DM:135:VAL:N	2.24	0.45
1:AA:1250:A:O2'	1:AA:1251:A:H5'	2.17	0.45
23:BB:1547:C:H2'	23:BB:1548:A:C8	2.52	0.45
2:AC:135:ARG:C	2:AC:137:VAL:H	2.20	0.45
23:DB:1251:C:H5''	38:DQ:5:ARG:NH1	2.32	0.45
23:DB:2065:C:H2'	23:DB:2066:C:C6	2.51	0.45
23:DB:154:U:H2'	23:DB:155:A:C8	2.52	0.45
25:BC:208:GLY:C	25:BC:210:ALA:H	2.20	0.45
1:CA:1319:A:H2'	1:CA:1323:G:N7	2.32	0.45
23:DB:2460:U:H2'	23:DB:2461:A:H8	1.81	0.45
22:DA:55:U:O2'	28:DF:25:MET:HB3	2.16	0.45
23:DB:438:G:O2'	23:DB:439:A:H5'	2.16	0.45
28:BF:31:GLU:HB3	28:BF:32:LYS:H	1.54	0.45
15:AP:4:ILE:HA	15:AP:20:VAL:O	2.16	0.45
2:CC:17:TRP:C	2:CC:19:SER:H	2.20	0.45
29:BG:120:ILE:HD12	29:BG:120:ILE:N	2.32	0.45
1:AA:543:U:P	3:AD:13:ARG:HH21	2.40	0.45
23:DB:2769:U:O2'	23:DB:2770:G:H5'	2.16	0.45
23:BB:2291:U:H2'	23:BB:2292:U:H6	1.80	0.45
1:AA:202:G:N2	1:AA:465:A:H61	2.14	0.45
23:DB:303:G:H2'	23:DB:304:U:H6	1.82	0.45
37:BP:38:ARG:CZ	37:BP:39:LEU:H	2.29	0.45
23:BB:1669:A:N3	23:BB:1669:A:H2'	2.30	0.45
2:CC:53:ARG:HA	2:CC:113:LYS:CE	2.47	0.45
23:BB:1309:G:H4'	49:B2:7:PRO:CG	2.45	0.45
36:DO:86:GLY:O	36:DO:88:LYS:N	2.50	0.45
16:AQ:23:ALA:HB1	16:AQ:40:THR:CG2	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:138:GLN:HE22	29:DG:142:GLN:HG3	1.82	0.45
23:BB:402:A:H2'	23:BB:403:U:O4'	2.16	0.45
29:BG:121:THR:O	29:BG:133:LYS:HD3	2.16	0.45
52:BI:14:ALA:CB	52:BI:50:LYS:HA	2.47	0.45
2:CC:63:ILE:HG12	2:CC:65:VAL:CG2	2.46	0.45
11:CL:41:PRO:HG2	11:CL:45:ASN:O	2.16	0.45
1:CA:478:A:H2'	1:CA:479:U:O4'	2.15	0.45
23:BB:15:G:H4'	47:B0:17:SER:OG	2.17	0.45
36:DO:45:SER:C	36:DO:47:VAL:H	2.20	0.45
23:BB:1752:C:H4'	23:BB:2862:G:OP1	2.16	0.45
32:BK:10:VAL:HG13	32:BK:19:VAL:CG2	2.46	0.45
23:DB:1221:C:H2'	23:DB:1222:U:H6	1.82	0.45
1:AA:1380:U:C4	6:AG:2:ARG:HG3	2.52	0.45
4:CE:14:LEU:HD22	4:CE:15:ILE:N	2.32	0.45
23:BB:1255:U:H2'	27:BE:67:ARG:HB3	1.99	0.45
23:DB:1880:U:H2'	23:DB:1881:C:C6	2.52	0.45
39:DR:11:GLN:N	39:DR:21:ARG:NH2	2.64	0.45
23:BB:2776:A:H4'	23:BB:2777:G:C5'	2.46	0.45
11:AL:30:ARG:HH11	11:AL:30:ARG:CB	2.29	0.45
23:DB:2712:C:H2'	23:DB:2714:G:O3'	2.17	0.45
1:AA:295:C:H2'	1:AA:296:U:C6	2.52	0.45
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.52	0.45
1:CA:957:U:H2'	1:CA:959:A:OP2	2.17	0.45
1:CA:295:C:H2'	1:CA:296:U:C6	2.52	0.45
4:CE:68:ARG:O	4:CE:69:ASN:HB3	2.17	0.45
1:CA:432:A:C2'	1:CA:433:G:H5'	2.47	0.45
1:CA:343:U:H2'	1:CA:345:C:C5	2.52	0.45
42:DU:85:ARG:O	42:DU:87:GLU:N	2.50	0.45
33:DL:94:THR:OG1	33:DL:95:LEU:HD12	2.16	0.45
33:BL:33:ARG:NH1	33:BL:34:GLY:HA3	2.32	0.45
8:CI:88:GLU:HA	8:CI:91:GLU:OE2	2.16	0.45
1:CA:224:U:H2'	1:CA:225:C:H6	1.82	0.45
37:BP:9:GLN:HB3	37:BP:56:SER:HB2	1.97	0.45
30:DH:4:ILE:O	30:DH:5:LEU:HD22	2.17	0.45
30:DH:7:ASP:HB3	30:DH:8:LYS:H	1.60	0.45
47:D0:29:VAL:HG23	47:D0:32:THR:OG1	2.16	0.45
26:DD:40:LEU:O	26:DD:41:ALA:HB3	2.17	0.45
35:DN:45:ARG:NH2	35:DN:97:ILE:HG12	2.31	0.45
31:DJ:58:ASN:O	31:DJ:60:ASP:N	2.45	0.45
23:DB:1205:A:N7	27:DE:164:LEU:CD1	2.80	0.45
50:B3:29:ARG:HA	50:B3:33:THR:HG21	1.95	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:640:C:H1'	50:B3:44:ARG:NH2	2.32	0.45
33:BL:77:ILE:HD12	33:BL:110:VAL:HG22	1.99	0.45
23:BB:952:G:C6	23:BB:966:G:C6	3.05	0.45
34:BM:7:THR:C	34:BM:8:LYS:HD3	2.37	0.45
38:BQ:16:ILE:HD11	38:BQ:31:TYR:HD1	1.82	0.45
38:BQ:19:GLN:NE2	38:BQ:38:VAL:HG23	2.32	0.45
1:AA:408:A:P	3:AD:109:THR:HG21	2.57	0.45
23:BB:493:G:H2'	23:BB:494:G:O4'	2.17	0.45
41:DT:15:HIS:HB3	41:DT:31:VAL:CG1	2.47	0.45
41:DT:85:VAL:HG23	41:DT:86:THR:N	2.32	0.45
28:BF:132:ARG:NH2	28:BF:147:ARG:HE	2.15	0.45
38:BQ:92:LYS:CD	38:BQ:93:ILE:N	2.80	0.45
12:AM:52:ILE:HG23	12:AM:53:ASP:N	2.32	0.45
40:BS:70:LYS:O	40:BS:71:VAL:HB	2.17	0.45
51:B4:24:ARG:HH22	51:B4:36:ARG:HD3	1.79	0.45
51:B4:7:VAL:HB	51:B4:35:GLN:NE2	2.31	0.45
23:DB:2637:U:O2'	23:DB:2638:G:H5'	2.17	0.45
26:BD:128:ARG:CA	26:BD:128:ARG:NE	2.80	0.45
23:DB:2420:C:OP2	50:D3:31:ILE:HA	2.17	0.45
23:DB:1131:G:N7	23:DB:2025:C:H4'	2.32	0.45
23:DB:2733:A:H2'	23:DB:2734:A:O4'	2.17	0.45
39:DR:37:GLU:CG	39:DR:62:GLU:HG3	2.45	0.45
1:CA:1147:C:HO2'	8:CI:6:TYR:HE2	1.64	0.45
1:AA:1323:G:O2'	1:AA:1362:A:O4'	2.35	0.45
48:B1:40:PRO:HA	48:B1:48:TYR:OH	2.16	0.45
23:DB:1190:G:OP1	33:DL:38:GLN:CB	2.65	0.45
15:CP:57:ILE:HD11	15:CP:75:ILE:HD11	1.98	0.45
42:BU:2:ALA:O	42:BU:3:LYS:HD3	2.16	0.45
14:AO:77:TYR:O	14:AO:81:ILE:HG23	2.17	0.45
35:BN:38:LEU:N	35:BN:39:PRO:CD	2.80	0.45
1:AA:781:A:H2'	1:AA:782:A:C5'	2.38	0.45
23:DB:743:A:OP1	26:DD:134:HIS:CD2	2.70	0.45
23:DB:743:A:OP1	26:DD:134:HIS:NE2	2.50	0.45
3:AD:94:GLU:OE2	3:AD:94:GLU:HA	2.16	0.45
1:CA:953:G:H3'	1:CA:954:G:H8	1.82	0.45
48:B1:20:TYR:O	48:B1:21:THR:HB	2.17	0.45
18:AS:64:GLU:O	18:AS:66:VAL:HG23	2.17	0.45
23:BB:2065:C:H2'	23:BB:2066:C:C6	2.51	0.45
1:CA:817:C:C2	1:CA:819:A:O4'	2.70	0.45
11:CL:89:LEU:HD22	11:CL:89:LEU:N	2.32	0.45
23:BB:1487:U:H2'	23:BB:1488:C:C6	2.50	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:H5'	8:AI:6:TYR:OH	2.17	0.45
37:BP:26:GLU:O	37:BP:46:VAL:HG22	2.17	0.45
2:CC:129:PHE:CG	2:CC:130:ARG:N	2.85	0.45
22:DA:13:G:H2'	22:DA:14:U:H5''	1.99	0.45
1:AA:1521:C:O2'	1:AA:1522:U:H5'	2.17	0.45
6:CG:29:LEU:HG	6:CG:104:VAL:HG22	1.99	0.45
1:AA:1478:U:H2'	1:AA:1479:C:C6	2.52	0.45
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.52	0.45
11:CL:91:GLY:O	11:CL:93:ARG:NE	2.50	0.45
16:AQ:29:LYS:HD3	16:AQ:35:LYS:CA	2.47	0.45
12:CM:73:SER:O	12:CM:77:LYS:HG3	2.17	0.45
28:BF:13:LYS:HD3	28:BF:16:MET:HG3	1.99	0.45
32:BK:20:MET:O	32:BK:42:THR:N	2.49	0.45
1:AA:957:U:H2'	1:AA:959:A:OP2	2.17	0.45
3:AD:145:ARG:HH11	3:AD:145:ARG:CB	2.29	0.45
23:DB:1509:A:C5'	23:DB:1510:G:H5'	2.47	0.45
1:AA:385:C:O2'	1:AA:386:C:H5'	2.17	0.45
23:BB:1736:U:H2'	23:BB:1737:G:C8	2.52	0.45
48:D1:14:ALA:CB	48:D1:19:PHE:HB3	2.47	0.45
23:DB:1712:U:H3'	23:DB:1713:A:C5'	2.46	0.45
1:CA:24:U:O2'	1:CA:25:C:H5'	2.16	0.45
23:BB:2671:G:H2'	23:BB:2672:U:H6	1.80	0.45
1:AA:521:G:O2'	1:AA:522:C:H5'	2.17	0.45
31:DJ:94:ALA:HB3	31:DJ:95:ARG:HE	1.82	0.45
1:AA:551:U:O2'	1:AA:552:U:H5'	2.17	0.45
6:AG:73:GLU:OE2	6:AG:90:VAL:HG12	2.17	0.45
23:BB:1064:C:C4'	52:BI:90:GLY:HA2	2.47	0.45
23:DB:1585:C:H2'	23:DB:1586:A:C8	2.52	0.45
23:BB:1985:C:O2'	23:BB:1986:C:H5'	2.17	0.45
17:AR:22:TYR:CD2	17:AR:60:ARG:HD2	2.51	0.45
4:AE:56:PRO:O	4:AE:59:ILE:HG22	2.16	0.45
20:AB:23:ASN:HD22	20:AB:23:ASN:C	2.20	0.45
1:CA:285:C:H2'	1:CA:286:C:H6	1.81	0.45
20:AB:81:ASP:O	20:AB:85:SER:HB2	2.17	0.45
34:BM:31:PHE:HA	34:BM:128:THR:HG22	1.97	0.45
30:BH:147:VAL:HG12	30:BH:148:ALA:N	2.32	0.44
51:D4:9:LYS:O	51:D4:25:VAL:HA	2.18	0.44
37:BP:31:VAL:HA	37:BP:81:ASP:CB	2.48	0.44
43:DW:76:ARG:C	43:DW:78:PHE:H	2.20	0.44
30:DH:19:VAL:HG22	30:DH:20:ASN:N	2.32	0.44
26:DD:45:TYR:HB3	26:DD:46:ARG:H	1.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:52:ARG:HG2	38:DQ:53:LYS:H	1.83	0.44
18:AS:50:VAL:H	18:AS:57:VAL:H	1.64	0.44
30:BH:35:LYS:H	30:BH:35:LYS:HD2	1.82	0.44
46:BZ:31:ASP:HA	46:BZ:47:LYS:O	2.17	0.44
32:BK:24:VAL:HG12	32:BK:30:ARG:HB3	1.98	0.44
23:BB:2464:G:H2'	23:BB:2465:C:C6	2.51	0.44
23:BB:2576:G:P	26:BD:149:ASN:CB	2.94	0.44
23:DB:1025:G:OP1	23:DB:1025:G:H8	2.00	0.44
23:BB:2774:C:P	26:BD:169:ARG:HG3	2.57	0.44
45:DY:17:PRO:HD2	45:DY:18:LYS:NZ	2.31	0.44
35:BN:86:ARG:HH21	35:BN:116:VAL:HG11	1.82	0.44
25:BC:90:ILE:CG2	25:BC:91:ALA:N	2.79	0.44
39:BR:6:GLN:O	39:BR:7:SER:OG	2.33	0.44
3:CD:18:LEU:HD22	3:CD:18:LEU:N	2.31	0.44
21:AU:17:ARG:CA	21:AU:20:ARG:HB3	2.43	0.44
23:DB:1199:U:O2'	38:DQ:2:ARG:HB3	2.16	0.44
26:DD:31:ALA:HB3	26:DD:95:SER:HB2	1.99	0.44
23:BB:126:A:OP2	49:B2:45:SER:OG	2.29	0.44
23:BB:138:U:H2'	23:BB:140:C:C1'	2.45	0.44
30:BH:134:VAL:HG22	30:BH:135:HIS:N	2.32	0.44
23:DB:1021:A:N6	23:DB:1142:A:N6	2.54	0.44
5:AF:40:GLU:CG	5:AF:42:TRP:HE1	2.27	0.44
17:AR:64:LEU:CB	17:AR:66:LEU:HG	2.47	0.44
1:CA:1371:G:O3'	8:CI:70:GLY:HA3	2.17	0.44
31:DJ:73:VAL:HG22	31:DJ:74:TYR:H	1.80	0.44
14:AO:70:LYS:HG2	14:AO:77:TYR:CG	2.52	0.44
47:B0:51:ARG:O	47:B0:52:LYS:HD2	2.18	0.44
10:CK:70:ALA:CA	10:CK:73:VAL:HG22	2.47	0.44
23:DB:1005:C:O2'	23:DB:1006:C:H5'	2.15	0.44
5:CF:52:ASN:O	5:CF:53:LYS:HB3	2.17	0.44
23:BB:2285:C:OP1	48:B1:26:LYS:HE3	2.17	0.44
1:AA:817:C:C2	1:AA:819:A:O4'	2.70	0.44
23:BB:1790:C:H4'	25:BC:207:ALA:CB	2.46	0.44
23:BB:1773:A:C8	23:BB:1829:A:C8	3.05	0.44
23:BB:1341:G:H2'	23:BB:1397:U:HO2'	1.81	0.44
1:AA:1282:C:H2'	1:AA:1283:U:C6	2.52	0.44
23:BB:2304:G:N2	23:BB:2312:U:H3	2.15	0.44
15:AP:39:PHE:HE2	15:AP:70:ARG:NH2	2.15	0.44
3:AD:10:LEU:HD21	3:AD:62:ARG:CG	2.46	0.44
2:AC:25:THR:CG2	13:AN:74:ARG:HD2	2.47	0.44
23:DB:1180:U:H2'	23:DB:1181:U:O4'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:121:PHE:CE1	28:DF:166:ARG:HG2	2.52	0.44
22:DA:107:G:O2'	22:DA:108:A:H5'	2.17	0.44
23:DB:1116:G:O2'	23:DB:1117:C:H5'	2.17	0.44
23:BB:844:A:H2	23:BB:845:A:N1	2.16	0.44
30:DH:53:GLU:CD	30:DH:57:LYS:HD2	2.37	0.44
12:CM:84:CYS:O	12:CM:88:LEU:HG	2.16	0.44
13:AN:50:LEU:CG	13:AN:51:PRO:HD3	2.46	0.44
1:CA:1526:G:OP1	21:CU:37:TYR:HB3	2.17	0.44
23:DB:231:A:H3'	23:DB:232:G:C8	2.52	0.44
29:BG:158:GLY:CA	29:BG:170:THR:HG21	2.46	0.44
23:DB:2598:A:P	25:DC:237:ARG:HH12	2.39	0.44
1:CA:385:C:O2'	1:CA:386:C:H5'	2.17	0.44
9:CJ:19:ASP:HA	9:CJ:22:THR:HG22	1.99	0.44
3:CD:71:PHE:CE2	3:CD:89:LEU:HD11	2.51	0.44
3:CD:74:TYR:HB3	3:CD:89:LEU:HD12	1.98	0.44
23:BB:1292:G:H2'	23:BB:1293:C:H6	1.82	0.44
3:CD:123:MET:CB	3:CD:128:VAL:HA	2.46	0.44
3:CD:123:MET:HB3	3:CD:128:VAL:HA	1.99	0.44
1:AA:1439:G:H2'	1:AA:1440:U:O4'	2.18	0.44
23:BB:807:U:H2'	23:BB:808:G:H8	1.81	0.44
23:BB:2373:G:H2'	23:BB:2374:C:H6	1.80	0.44
1:AA:649:A:H2'	1:AA:650:G:O4'	2.17	0.44
50:D3:21:PHE:O	50:D3:48:MET:HB2	2.16	0.44
1:CA:1426:G:H2'	1:CA:1427:C:C6	2.52	0.44
23:BB:1880:U:H2'	23:BB:1881:C:C6	2.52	0.44
23:DB:2457:U:O2'	23:DB:2458:G:H5'	2.17	0.44
3:CD:172:VAL:HG22	3:CD:173:ASP:N	2.32	0.44
23:DB:1914:C:H3'	23:DB:1914:C:OP2	2.18	0.44
1:AA:432:A:C2'	1:AA:433:G:H5'	2.47	0.44
23:BB:699:A:H2'	23:BB:700:G:O4'	2.17	0.44
28:BF:101:ARG:HD2	28:BF:105:ILE:HD12	1.99	0.44
27:DE:46:GLN:CD	27:DE:86:ALA:HB3	2.38	0.44
23:BB:2204:G:O2'	23:BB:2205:A:H5'	2.17	0.44
30:DH:35:LYS:NZ	30:DH:37:VAL:HG23	2.32	0.44
25:DC:137:GLY:O	25:DC:140:VAL:HG13	2.16	0.44
25:DC:155:ARG:NH2	25:DC:155:ARG:HG2	2.31	0.44
27:DE:109:LEU:HA	27:DE:117:ARG:NH1	2.32	0.44
33:BL:58:TYR:O	33:BL:61:LEU:HD21	2.17	0.44
15:AP:40:ASN:HB3	15:AP:49:GLY:O	2.17	0.44
32:BK:121:GLU:HG2	37:BP:67:GLU:OE2	2.16	0.44
46:DZ:48:GLN:O	46:DZ:51:VAL:HB	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2466:C:O2'	23:BB:2467:C:H5'	2.17	0.44
26:BD:151:THR:HB	26:BD:152:PRO:CD	2.48	0.44
20:AB:67:LEU:HD12	20:AB:153:MET:CE	2.38	0.44
13:AN:60:ARG:NE	13:AN:62:ARG:HE	2.15	0.44
23:BB:1157:G:H1'	45:BY:10:ARG:NH2	2.31	0.44
23:BB:2678:C:O2'	23:BB:2679:A:H5'	2.17	0.44
23:BB:2306:C:N4	28:BF:38:GLY:H	2.03	0.44
25:BC:27:LYS:HA	25:BC:79:ARG:CZ	2.48	0.44
39:BR:47:VAL:C	39:BR:49:ILE:H	2.20	0.44
43:BW:39:GLN:HA	43:BW:68:PHE:HA	1.98	0.44
26:DD:202:ILE:HG22	26:DD:203:VAL:N	2.31	0.44
33:DL:58:TYR:HA	33:DL:62:PRO:CG	2.47	0.44
23:DB:2038:G:H2'	23:DB:2039:U:H6	1.82	0.44
23:BB:1286:A:H1'	23:BB:1288:G:OP2	2.17	0.44
45:DY:8:GLN:HE21	45:DY:23:LEU:HD12	1.82	0.44
43:BW:28:GLU:C	43:BW:30:VAL:H	2.21	0.44
23:BB:2354:C:H4'	43:BW:30:VAL:HG13	1.98	0.44
4:CE:109:ALA:HB3	4:CE:135:VAL:HG11	1.99	0.44
23:BB:701:G:O2'	23:BB:702:U:H5'	2.16	0.44
1:CA:836:G:H2'	1:CA:837:U:C6	2.52	0.44
38:DQ:92:LYS:C	38:DQ:93:ILE:HG23	2.36	0.44
39:DR:73:LYS:HD2	39:DR:73:LYS:N	2.32	0.44
4:CE:37:VAL:HG12	4:CE:116:VAL:HG21	1.99	0.44
4:CE:10:LEU:HA	4:CE:39:GLY:O	2.17	0.44
23:BB:273:G:H2'	23:BB:274:C:C6	2.53	0.44
36:BO:8:ILE:O	36:BO:10:ARG:N	2.50	0.44
23:BB:2065:C:C2	23:BB:2066:C:C5	3.05	0.44
25:BC:115:ILE:HA	25:BC:126:GLY:CA	2.47	0.44
12:CM:96:VAL:C	12:CM:98:GLY:H	2.20	0.44
4:AE:108:GLY:H	4:AE:110:MET:CE	2.30	0.44
7:CH:72:GLU:HB3	7:CH:129:ALA:HB2	1.98	0.44
23:BB:1263:U:H4'	47:B0:8:THR:HB	2.00	0.44
7:CH:76:ARG:NE	7:CH:125:ILE:HG23	2.32	0.44
23:DB:727:A:OP1	23:DB:1431:A:O2'	2.35	0.44
16:CQ:18:LYS:HA	16:CQ:47:ASP:O	2.17	0.44
1:CA:428:G:H4'	1:CA:429:U:O5'	2.17	0.44
14:CO:23:SER:HB3	14:CO:26:VAL:HG23	1.99	0.44
29:BG:154:GLU:OE2	29:BG:159:LYS:HG2	2.17	0.44
23:DB:2415:G:H4'	33:DL:66:PHE:HB2	2.00	0.44
23:DB:152:A:H2'	23:DB:153:U:C6	2.53	0.44
6:AG:87:PRO:CG	6:AG:151:ALA:HB2	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CC:129:PHE:CZ	2:CC:156:LEU:HD13	2.52	0.44
30:BH:57:LYS:N	30:BH:57:LYS:HE3	2.32	0.44
15:AP:39:PHE:CE1	15:AP:74:LEU:HD22	2.52	0.44
23:BB:1589:U:H2'	23:BB:1590:A:C8	2.52	0.44
39:BR:35:PHE:HB2	39:BR:64:VAL:HG21	1.98	0.44
1:AA:734:G:H2'	1:AA:735:C:C6	2.53	0.44
22:DA:14:U:H4'	22:DA:70:C:O2	2.17	0.44
23:BB:718:A:H2'	23:BB:719:C:H5'	1.99	0.44
1:CA:676:A:H5''	10:CK:114:PRO:CB	2.47	0.44
6:AG:74:VAL:HG12	6:AG:75:LYS:N	2.30	0.44
34:DM:96:ILE:H	34:DM:98:PRO:HD3	1.83	0.44
23:DB:1724:G:H2'	23:DB:1725:U:H6	1.82	0.44
23:BB:173:A:H2'	23:BB:174:U:C6	2.52	0.44
1:CA:983:A:O2'	1:CA:1049:U:O2'	2.32	0.44
1:CA:1030:U:HO2'	1:CA:1031:C:P	2.38	0.44
1:CA:1031:C:H5'	1:CA:1032:G:C4	2.53	0.44
4:AE:16:ALA:O	4:AE:34:ALA:HA	2.16	0.44
16:AQ:44:HIS:O	16:AQ:72:TRP:HB2	2.16	0.44
8:CI:38:PHE:HB2	8:CI:44:ARG:HG3	2.00	0.44
23:DB:1563:U:O2'	23:DB:1564:C:H5'	2.17	0.44
48:D1:42:VAL:HG12	48:D1:43:ARG:HG2	1.99	0.44
1:CA:857:C:H2'	1:CA:858:G:O4'	2.17	0.44
52:BI:52:LEU:HD12	52:BI:52:LEU:N	2.32	0.44
23:DB:807:U:H2'	23:DB:808:G:H8	1.81	0.44
23:BB:2257:U:OP1	43:BW:5:ALA:HB2	2.18	0.44
1:AA:1262:C:H2'	1:AA:1263:C:O4'	2.17	0.44
23:BB:2220:U:O2'	23:BB:2221:G:H5'	2.17	0.44
23:BB:1541:C:O2'	23:BB:1542:U:H5'	2.17	0.44
9:CJ:17:LEU:HD11	9:CJ:96:VAL:HG12	1.98	0.44
23:DB:709:U:H2'	23:DB:710:U:H6	1.81	0.44
23:DB:689:A:H2'	23:DB:690:G:C8	2.52	0.44
23:BB:269:C:O2'	23:BB:270:A:H5'	2.17	0.44
23:BB:689:A:H2'	23:BB:690:G:C8	2.52	0.44
11:AL:32:VAL:O	11:AL:33:CYS:HB2	2.15	0.44
1:AA:668:G:O2'	1:AA:669:G:H5'	2.17	0.44
29:DG:98:LYS:HB3	29:DG:101:VAL:HG23	1.98	0.44
23:BB:2521:C:O2'	23:BB:2522:U:H5'	2.17	0.44
25:DC:24:HIS:HB3	25:DC:25:LYS:H	1.54	0.44
23:DB:822:G:H2'	23:DB:823:C:C6	2.53	0.44
9:CJ:98:VAL:O	9:CJ:98:VAL:HG23	2.18	0.44
1:AA:343:U:H2'	1:AA:345:C:C5	2.52	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:178:C:O2'	1:AA:179:A:H5'	2.17	0.44
37:DP:47:ILE:HG23	37:DP:63:ILE:CA	2.32	0.44
23:DB:458:G:O2'	23:DB:459:U:C5	2.69	0.44
23:BB:39:G:H2'	23:BB:40:U:C6	2.52	0.44
51:D4:14:CYS:SG	51:D4:26:ILE:HG23	2.57	0.44
26:BD:13:ARG:O	26:BD:14:ILE:C	2.55	0.44
23:DB:2259:U:O4'	23:DB:2427:C:H2'	2.18	0.44
25:DC:70:LYS:HD2	25:DC:95:TYR:CD1	2.52	0.44
31:BJ:119:PHE:O	31:BJ:122:LEU:HG	2.18	0.44
43:BW:44:PHE:O	43:BW:76:ARG:N	2.50	0.44
23:DB:974:G:H4'	39:DR:83:TYR:CZ	2.52	0.44
23:BB:320:A:OP2	27:BE:132:LYS:HE2	2.18	0.44
23:BB:635:C:H3'	33:BL:109:LYS:NZ	2.33	0.44
36:DO:39:VAL:HG12	36:DO:50:ALA:HB2	2.00	0.44
45:BY:9:THR:HB	45:BY:54:VAL:CA	2.39	0.44
42:BU:42:LYS:HD3	42:BU:60:LYS:CB	2.45	0.44
41:DT:14:PRO:HA	41:DT:32:LEU:HG	1.98	0.44
8:AI:51:LEU:CD1	8:AI:82:ILE:HG21	2.47	0.44
25:BC:7:PRO:HB3	25:BC:25:LYS:HD3	1.98	0.44
10:CK:16:SER:N	10:CK:78:ILE:HA	2.32	0.44
23:DB:2270:A:H4'	43:DW:18:LYS:HB2	1.99	0.44
43:DW:19:ARG:NH2	43:DW:22:VAL:HA	2.32	0.44
41:BT:47:VAL:HG12	41:BT:53:VAL:CG2	2.47	0.44
41:BT:62:VAL:O	41:BT:63:VAL:CG1	2.61	0.44
41:BT:87:LEU:HD22	41:BT:87:LEU:N	2.32	0.44
23:DB:1266:G:OP2	47:D0:12:ARG:NH1	2.50	0.44
13:CN:63:CYS:CB	13:CN:68:ARG:H	2.25	0.44
1:AA:1085:U:H3'	1:AA:1086:U:C5	2.53	0.44
23:DB:927:A:O2'	23:DB:928:A:H5'	2.18	0.44
12:CM:97:ARG:HG2	12:CM:97:ARG:HH11	1.82	0.44
31:DJ:93:ILE:HG22	31:DJ:97:PRO:HA	1.99	0.44
44:BX:15:ASN:O	44:BX:17:GLU:N	2.51	0.44
23:DB:1064:C:H2'	23:DB:1065:U:O4'	2.17	0.44
36:BO:10:ARG:NH1	36:BO:10:ARG:HG3	2.30	0.44
1:CA:238:A:C3'	1:CA:239:U:H5''	2.47	0.44
1:CA:237:G:O2'	1:CA:238:A:H5'	2.18	0.44
8:CI:30:ASN:O	8:CI:31:GLN:HB2	2.17	0.44
26:BD:62:LYS:CE	26:BD:62:LYS:H	2.30	0.44
24:DV:30:ILE:HB	24:DV:38:LEU:HB3	2.00	0.44
29:BG:40:VAL:HG13	29:BG:52:GLY:O	2.18	0.44
7:CH:75:GLN:HE21	7:CH:76:ARG:H	1.65	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:397:A:N7	1:AA:547:A:O2'	2.45	0.44
8:AI:118:ARG:HH22	8:AI:122:ARG:HH21	1.66	0.44
23:BB:2249:U:C4'	23:BB:2275:C:H5	2.29	0.44
23:BB:1802:A:O3'	25:BC:255:LYS:HE2	2.18	0.44
25:BC:243:PRO:HB3	25:BC:249:VAL:HG23	1.99	0.44
24:BV:79:ARG:HB3	24:BV:79:ARG:NH1	2.32	0.44
23:BB:435:C:C2'	23:BB:436:C:H5'	2.47	0.44
4:CE:64:GLU:HA	4:CE:67:ARG:NH1	2.32	0.44
1:AA:541:G:H2'	1:AA:542:G:C8	2.52	0.44
5:CF:68:GLN:HA	5:CF:71:ILE:CG2	2.45	0.44
42:DU:94:PHE:CD2	42:DU:95:PHE:N	2.84	0.44
29:DG:163:TYR:C	29:DG:165:ASP:H	2.20	0.44
23:DB:1359:A:H2'	23:DB:1360:G:O4'	2.17	0.44
23:DB:1964:G:H4'	23:DB:1965:C:OP2	2.17	0.44
1:CA:598:U:H2'	1:CA:599:C:H6	1.82	0.44
23:BB:728:G:H5'	25:BC:12:ARG:HH22	1.82	0.44
23:BB:608:A:H2'	23:BB:609:A:H8	1.81	0.44
23:BB:1560:G:C4	23:BB:1561:C:C5	3.06	0.44
32:DK:17:ARG:HB2	32:DK:45:GLU:CB	2.47	0.44
32:DK:8:LEU:H	32:DK:8:LEU:HD12	1.82	0.44
23:BB:2100:G:H3'	23:BB:2101:A:H8	1.82	0.44
20:AB:172:ILE:O	20:AB:175:ALA:HB3	2.17	0.44
23:DB:2491:U:H5''	23:DB:2570:G:H5'	1.99	0.44
23:BB:1710:G:H2'	23:BB:1711:A:C8	2.52	0.44
23:DB:1710:G:H2'	23:DB:1711:A:C8	2.52	0.44
1:CA:113:G:H2'	1:CA:114:U:H6	1.81	0.44
23:DB:1560:G:C4	23:DB:1561:C:C5	3.06	0.44
23:DB:1317:G:H2'	23:DB:1318:U:O4'	2.17	0.44
2:AC:110:LEU:HB3	2:AC:203:LYS:NZ	2.32	0.44
23:BB:185:G:H2'	23:BB:186:G:O4'	2.17	0.44
26:DD:70:LYS:NZ	26:DD:70:LYS:HB3	2.32	0.44
23:DB:1541:C:O2'	23:DB:1542:U:H5'	2.17	0.44
1:AA:28:A:H2'	1:AA:29:U:O4'	2.17	0.44
2:AC:70:ALA:CB	2:AC:108:PRO:HB3	2.47	0.44
1:CA:1456:A:H2'	1:CA:1457:G:C8	2.52	0.44
1:CA:28:A:H2'	1:CA:29:U:O4'	2.17	0.44
45:BY:28:LEU:HA	45:BY:33:HIS:ND1	2.33	0.44
9:CJ:35:GLN:HB3	9:CJ:78:GLU:CD	2.37	0.44
23:BB:376:G:H2'	23:BB:377:G:H8	1.81	0.44
1:CA:734:G:H2'	1:CA:735:C:C6	2.52	0.44
1:AA:1190:G:OP1	2:AC:4:VAL:HG12	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:453:A:H4'	23:BB:472:A:N6	2.32	0.44
23:BB:1668:A:N3	23:BB:1670:C:C4	2.85	0.44
1:CA:65:A:H2	1:CA:381:C:H2'	1.82	0.44
23:BB:1678:A:O2'	23:BB:1679:A:H5'	2.16	0.44
21:CU:43:GLU:O	21:CU:46:ARG:HB2	2.16	0.44
13:AN:73:LEU:HD12	13:AN:73:LEU:N	2.32	0.44
26:BD:23:PRO:HA	26:BD:190:LYS:CA	2.47	0.44
37:BP:1:SER:HB2	37:BP:4:ILE:HB	1.98	0.44
23:DB:858:G:C2	23:DB:2268:A:H2'	2.47	0.44
25:BC:103:ILE:CG2	25:BC:104:LEU:N	2.80	0.44
47:D0:47:TYR:CD2	47:D0:51:ARG:HA	2.53	0.44
26:DD:83:ARG:HD2	26:DD:84:LEU:N	2.32	0.44
23:DB:7:G:H2'	23:DB:8:C:H6	1.82	0.44
43:BW:48:ALA:HA	43:BW:54:ARG:HA	2.00	0.44
23:DB:814:C:H5''	39:DR:87:GLN:O	2.18	0.44
30:BH:3:VAL:CG2	30:BH:21:VAL:HG11	2.44	0.44
27:DE:148:ILE:HG13	27:DE:148:ILE:O	2.17	0.44
27:DE:151:GLY:HA2	27:DE:169:VAL:O	2.17	0.44
23:BB:2393:U:OP1	50:B3:29:ARG:CZ	2.66	0.44
23:BB:966:G:H5''	23:BB:2272:U:O2	2.17	0.44
39:BR:78:ARG:HD3	39:BR:87:GLN:HG2	2.00	0.44
16:AQ:22:VAL:HG21	16:AQ:58:VAL:HG21	1.99	0.44
23:DB:2377:A:H2	36:DO:92:PHE:HE1	1.65	0.44
23:BB:1189:A:H2'	23:BB:1190:G:O4'	2.17	0.44
40:BS:50:VAL:HG21	40:BS:103:ILE:HG21	1.98	0.44
23:BB:1164:C:H2'	23:BB:1165:A:C8	2.52	0.44
35:BN:87:PHE:HB2	35:BN:94:TYR:CZ	2.52	0.44
39:BR:69:GLY:O	39:BR:70:GLU:HG3	2.17	0.44
1:AA:1296:C:O2'	1:AA:1302:C:C2	2.71	0.44
10:AK:92:ARG:NH1	21:AU:24:LYS:NZ	2.65	0.44
12:AM:75:SER:O	12:AM:78:ARG:HB3	2.17	0.44
12:AM:78:ARG:HE	12:AM:79:LEU:CD1	2.29	0.44
23:BB:1346:G:C6	23:BB:1601:G:C6	3.05	0.44
23:BB:144:A:H2'	23:BB:145:C:O4'	2.18	0.44
22:DA:49:C:H2'	22:DA:50:A:H8	1.83	0.44
40:DS:18:ARG:NE	40:DS:22:ASP:OD1	2.50	0.44
40:DS:22:ASP:O	40:DS:25:ARG:HG3	2.18	0.44
23:DB:357:C:H2'	23:DB:358:U:H6	1.82	0.44
33:DL:61:LEU:HD23	33:DL:61:LEU:C	2.38	0.44
26:DD:122:VAL:CG2	26:DD:128:ARG:HG3	2.46	0.44
1:AA:1215:G:H5'	1:AA:1215:G:H8	1.80	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BI:7:TYR:CD1	52:BI:7:TYR:C	2.91	0.44
26:BD:106:LYS:HB2	26:BD:106:LYS:HE3	1.77	0.44
34:DM:33:LEU:CD2	34:DM:124:LEU:HD22	2.48	0.44
12:CM:21:ILE:O	12:CM:21:ILE:HG22	2.16	0.44
29:BG:16:VAL:HG21	29:BG:44:HIS:NE2	2.32	0.44
29:BG:24:THR:OG1	29:BG:31:GLU:HB3	2.17	0.44
1:AA:951:G:H1'	1:AA:970:C:O2'	2.17	0.44
32:BK:35:VAL:HG23	32:BK:36:GLY:N	2.22	0.44
51:D4:30:GLU:O	51:D4:32:LYS:N	2.50	0.44
29:DG:156:TYR:CD1	29:DG:171:LYS:HG2	2.53	0.44
22:BA:49:C:OP2	36:BO:30:ARG:NH2	2.50	0.44
24:DV:72:VAL:CG1	24:DV:93:ARG:HA	2.42	0.44
23:BB:1547:C:H2'	23:BB:1548:A:H8	1.81	0.44
1:AA:397:A:N3	1:AA:397:A:H3'	2.33	0.44
1:CA:36:C:H2'	1:CA:37:U:O4'	2.17	0.44
23:BB:1785:A:H2'	23:BB:1787:A:C8	2.52	0.44
23:BB:764:A:H5''	25:BC:208:GLY:HA3	1.98	0.44
22:DA:99:A:N1	23:DB:863:A:H4'	2.33	0.44
23:DB:538:A:N6	23:DB:555:G:O2'	2.43	0.44
1:AA:60:A:O2'	1:AA:61:G:OP2	2.36	0.44
18:AS:16:LYS:O	18:AS:20:LYS:HB2	2.17	0.44
37:DP:8:GLU:HA	37:DP:11:GLN:HG2	1.99	0.44
23:BB:1210:G:H4'	23:BB:1211:C:OP2	2.18	0.44
23:DB:2758:A:H2'	23:DB:2759:G:C5'	2.45	0.44
23:DB:304:U:H2'	23:DB:305:C:H6	1.78	0.44
1:AA:56:U:H6	1:AA:56:U:O5'	2.00	0.44
23:DB:182:A:H2	23:DB:433:C:O2	2.00	0.44
1:CA:81:A:H2'	1:CA:82:G:H8	1.81	0.44
23:BB:956:G:H22	23:BB:959:A:H3'	1.80	0.44
1:CA:11:G:H2'	1:CA:12:U:C6	2.53	0.44
3:AD:120:LYS:CB	3:AD:145:ARG:HH21	2.30	0.44
28:BF:177:ARG:C	28:BF:177:ARG:HE	2.21	0.44
43:BW:49:ASN:O	43:BW:50:VAL:HB	2.18	0.44
23:BB:1559:U:H3'	23:BB:1560:G:C5'	2.47	0.44
2:CC:108:PRO:C	2:CC:110:LEU:H	2.21	0.44
20:AB:162:VAL:CG1	20:AB:184:ALA:HB2	2.47	0.44
23:BB:863:A:H2'	23:BB:864:G:H8	1.83	0.44
23:BB:1228:G:H2'	23:BB:1229:C:H6	1.82	0.44
2:CC:65:VAL:O	2:CC:65:VAL:HG12	2.17	0.44
1:AA:113:G:H2'	1:AA:114:U:H6	1.81	0.44
23:DB:20:C:H2'	23:DB:21:A:C8	2.51	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AR:40:PRO:HD2	17:AR:43:ILE:HD11	1.98	0.44
3:CD:55:ARG:HH11	3:CD:55:ARG:CG	2.31	0.44
23:DB:2215:C:O2'	23:DB:2216:G:H5'	2.17	0.44
23:DB:1292:G:H2'	23:DB:1293:C:H6	1.83	0.44
23:BB:770:G:OP1	49:B2:8:SER:HB2	2.17	0.44
23:DB:1128:G:N7	23:DB:2490:G:H5'	2.32	0.44
28:BF:77:LYS:HZ3	28:BF:79:ARG:HE	1.65	0.44
23:DB:145:C:H2'	23:DB:146:A:C8	2.52	0.44
23:DB:2669:G:H2'	23:DB:2670:A:C8	2.51	0.44
23:DB:383:C:H5'	23:DB:385:C:OP2	2.17	0.44
23:BB:68:G:N3	23:BB:68:G:H2'	2.31	0.44
23:BB:2604:U:O2'	23:BB:2605:U:H5'	2.17	0.44
11:AL:58:ASN:ND2	11:AL:60:PHE:HB2	2.33	0.44
1:CA:29:U:O2'	1:CA:30:U:H5'	2.17	0.44
23:DB:2521:C:O2'	23:DB:2522:U:H5'	2.17	0.44
1:CA:178:C:O2'	1:CA:179:A:H5'	2.18	0.44
1:AA:1484:C:O2'	1:AA:1485:U:H5'	2.18	0.44
23:DB:239:C:H2'	23:DB:240:C:C6	2.52	0.44
1:CA:668:G:O2'	1:CA:669:G:H5'	2.17	0.44
2:CC:87:ARG:HG3	2:CC:87:ARG:HH11	1.81	0.44
23:BB:121:G:H4'	23:BB:149:A:H5'	2.00	0.44
3:CD:102:TYR:HE1	3:CD:108:ALA:O	2.01	0.44
23:DB:2867:G:N3	23:DB:2867:G:C2'	2.73	0.44
23:BB:661:A:H2'	23:BB:662:G:H8	1.83	0.44
51:D4:23:ILE:HD12	51:D4:24:ARG:HH11	1.82	0.44
32:BK:75:SER:N	37:BP:76:HIS:NE2	2.64	0.44
25:BC:124:LYS:HZ3	25:BC:125:PRO:HD2	1.82	0.44
30:DH:4:ILE:CD1	30:DH:4:ILE:H	2.31	0.44
47:D0:36:LYS:HG3	47:D0:40:HIS:C	2.38	0.44
31:BJ:101:ILE:HG12	31:BJ:102:GLU:N	2.32	0.44
18:AS:35:ARG:HG3	18:AS:35:ARG:H	1.50	0.44
18:AS:47:THR:HG23	18:AS:60:PHE:HE1	1.83	0.44
23:DB:319:G:H2'	23:DB:320:A:O4'	2.18	0.44
23:DB:298:G:N2	23:DB:339:U:C5	2.86	0.44
33:BL:78:ARG:NH1	33:BL:80:SER:H	2.16	0.44
23:BB:985:C:H2'	23:BB:986:C:H6	1.83	0.44
46:DZ:2:LYS:O	46:DZ:3:LYS:C	2.55	0.44
23:DB:136:G:N2	41:DT:3:ARG:CZ	2.80	0.44
23:DB:2294:G:OP2	36:DO:9:ARG:NE	2.49	0.44
40:BS:9:HIS:O	40:BS:10:ALA:HB3	2.18	0.44
25:BC:216:ARG:HB3	25:BC:217:PRO:HD2	1.99	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1341:G:C2'	23:DB:1397:U:O2'	2.66	0.44
26:BD:171:THR:HG22	26:BD:173:GLN:HG3	1.98	0.44
35:BN:24:MET:HE2	35:BN:44:LEU:HD13	1.99	0.44
25:BC:6:LYS:HA	25:BC:7:PRO:HA	1.82	0.44
34:DM:5:LYS:HE3	34:DM:6:ARG:CA	2.45	0.44
13:AN:63:CYS:HB2	13:AN:79:SER:OG	2.18	0.44
40:BS:70:LYS:CD	40:BS:110:ARG:HG3	2.47	0.44
27:BE:111:GLU:C	27:BE:113:VAL:H	2.21	0.44
30:DH:108:VAL:HG12	30:DH:110:VAL:CB	2.47	0.44
18:CS:10:ILE:CG2	18:CS:40:PHE:HE2	2.31	0.44
23:BB:743:A:C2'	23:BB:744:U:H5'	2.47	0.44
10:CK:84:MET:SD	10:CK:110:THR:OG1	2.73	0.44
20:AB:9:LEU:H	20:AB:9:LEU:HD12	1.82	0.44
33:DL:64:PHE:CD2	50:D3:11:LYS:HB3	2.49	0.44
41:DT:9:LYS:HD3	44:DX:29:ARG:HH22	1.82	0.44
26:BD:29:VAL:HA	26:BD:185:ASN:OD1	2.18	0.44
26:BD:40:LEU:O	26:BD:41:ALA:HB3	2.18	0.44
23:DB:2728:U:H2'	23:DB:2729:G:H8	1.82	0.44
37:DP:34:GLY:O	37:DP:35:SER:HB3	2.17	0.44
8:CI:6:TYR:OH	8:CI:8:THR:HG22	2.17	0.44
1:CA:1300:G:H2'	1:CA:1301:U:OP2	2.18	0.44
42:BU:2:ALA:O	42:BU:4:ILE:HG13	2.18	0.44
3:AD:12:ARG:HD2	3:AD:37:PRO:HA	2.00	0.44
23:DB:2887:A:O4'	47:D0:27:LEU:HD11	2.17	0.44
10:CK:12:ARG:CB	10:CK:13:LYS:HD2	2.47	0.44
10:CK:70:ALA:C	10:CK:72:ALA:N	2.70	0.44
23:DB:1176:U:H2'	23:DB:1177:G:O4'	2.17	0.44
29:DG:134:GLY:N	29:DG:140:ILE:HD11	2.32	0.44
1:CA:949:A:O2'	1:CA:950:U:H5'	2.18	0.44
23:BB:230:G:H2'	23:BB:231:A:H8	1.82	0.44
16:CQ:68:LYS:C	16:CQ:70:LYS:N	2.70	0.44
43:BW:37:VAL:O	43:BW:38:ARG:C	2.55	0.44
1:CA:1414:U:H2'	1:CA:1415:G:C8	2.52	0.44
1:AA:1148:U:H5''	8:AI:8:THR:HG23	2.00	0.44
3:CD:37:PRO:HD2	3:CD:41:GLY:CA	2.47	0.44
23:DB:1785:A:H2'	23:DB:1787:A:C8	2.52	0.44
2:AC:148:ILE:HA	2:AC:200:TRP:O	2.18	0.44
38:DQ:32:ARG:NH1	38:DQ:33:VAL:HG22	2.33	0.44
9:AJ:57:VAL:HG22	9:AJ:58:ASN:H	1.83	0.44
1:AA:613:C:H2'	1:AA:614:C:H6	1.82	0.44
14:CO:42:PHE:CD1	14:CO:55:LEU:HD22	2.53	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DS:42:LYS:HE2	40:DS:45:VAL:HG21	1.99	0.44
4:AE:105:ILE:HD12	4:AE:123:LEU:HB3	2.00	0.44
23:DB:2463:C:O2'	23:DB:2464:G:H5'	2.18	0.44
34:DM:119:LEU:N	34:DM:119:LEU:HD22	2.32	0.44
23:DB:11:C:H2'	23:DB:12:U:C5'	2.44	0.44
8:AI:4:GLN:NE2	8:AI:21:LYS:HE3	2.33	0.44
23:DB:1589:U:H2'	23:DB:1590:A:C8	2.52	0.44
24:BV:77:VAL:HG12	34:BM:133:LYS:HZ2	1.83	0.44
1:AA:1521:C:H2'	1:AA:1522:U:C6	2.53	0.44
3:CD:107:GLY:O	3:CD:157:ALA:HB1	2.17	0.44
11:CL:19:ASN:HB3	11:CL:85:ARG:HD2	1.99	0.44
23:DB:198:C:H5'	23:DB:2244:U:OP1	2.18	0.44
3:AD:190:LEU:O	3:AD:192:ALA:N	2.50	0.44
23:BB:1535:A:H5'	23:BB:1536:C:C5	2.53	0.44
23:BB:1964:G:H4'	23:BB:1965:C:OP2	2.17	0.44
1:CA:1349:A:H61	1:CA:1373:G:H1'	1.82	0.44
23:BB:1669:A:C8	32:BK:5:GLN:HG3	2.53	0.44
2:CC:53:ARG:HA	2:CC:113:LYS:HZ3	1.83	0.44
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.17	0.44
28:BF:116:LEU:H	28:BF:176:PHE:CA	2.31	0.44
13:AN:17:ASP:HB2	13:AN:18:LYS:NZ	2.33	0.44
23:DB:401:A:O2'	23:DB:402:A:C5'	2.65	0.44
29:DG:93:TYR:HA	29:DG:105:SER:O	2.17	0.44
25:DC:135:PRO:O	25:DC:165:ALA:HA	2.17	0.44
23:BB:1561:C:H2'	23:BB:1562:U:H6	1.81	0.44
23:BB:1877:A:O2'	23:BB:1878:G:H5'	2.18	0.44
23:BB:1231:U:H2'	23:BB:1232:G:C8	2.52	0.44
23:BB:2787:C:H2'	23:BB:2788:C:C6	2.53	0.44
28:BF:48:LEU:O	28:BF:49:LEU:HB2	2.17	0.44
1:AA:915:A:C2'	1:AA:916:U:H5'	2.48	0.44
23:BB:1027:A:H2	23:BB:2488:G:H4'	1.82	0.44
1:CA:1425:U:H2'	1:CA:1426:G:C8	2.53	0.44
23:BB:2669:G:H2'	23:BB:2670:A:C8	2.51	0.44
23:BB:1910:G:O2'	23:BB:1911:U:H5'	2.18	0.44
23:BB:1107:G:H2'	23:BB:1108:U:C6	2.53	0.44
9:CJ:68:ARG:HD3	9:CJ:70:HIS:CE1	2.53	0.44
27:BE:178:VAL:HG23	27:BE:179:SER:N	2.33	0.44
23:BB:2150:C:H2'	23:BB:2151:U:O4'	2.17	0.44
23:DB:1775:U:H2'	23:DB:1776:G:C5'	2.47	0.44
15:AP:78:VAL:O	15:AP:80:LYS:N	2.51	0.44
23:DB:1541:C:H2'	23:DB:1542:U:O4'	2.16	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CR:42:ARG:C	17:CR:44:THR:H	2.21	0.44
1:CA:432:A:H2'	1:CA:433:G:H5'	1.99	0.44
25:DC:23:LEU:HD12	25:DC:24:HIS:O	2.17	0.44
23:DB:2533:U:H2'	23:DB:2534:A:O4'	2.17	0.44
5:CF:72:ASP:O	5:CF:75:GLU:HB3	2.18	0.44
35:DN:121:LYS:HD2	35:DN:122:ALA:H	1.83	0.44
23:DB:1659:G:C6	23:DB:2002:G:C6	3.06	0.44
1:AA:1529:G:OP2	1:AA:1529:G:H3'	2.18	0.44
23:DB:2321:U:O2	23:DB:2321:U:O4'	2.35	0.44
13:AN:49:THR:O	13:AN:49:THR:HG22	2.17	0.44
10:CK:117:HIS:O	10:CK:118:ASN:HB2	2.16	0.44
23:DB:1930:G:HO2'	23:DB:1931:U:H5	1.64	0.44
23:BB:1311:G:H21	23:BB:1603:A:H62	1.65	0.44
42:BU:13:LEU:N	42:BU:68:ASN:ND2	2.64	0.44
42:BU:11:ILE:O	42:BU:69:VAL:HB	2.18	0.44
23:BB:443:A:C2	23:BB:1245:G:N3	2.86	0.44
37:BP:18:SER:C	37:BP:20:ARG:H	2.21	0.44
37:BP:18:SER:OG	37:BP:21:PRO:HD3	2.18	0.44
23:BB:2206:C:O2'	23:BB:2207:C:H5'	2.17	0.44
25:BC:153:LEU:CD1	25:BC:161:VAL:HG23	2.47	0.44
31:BJ:71:ASP:O	31:BJ:72:LYS:HB2	2.17	0.44
43:BW:43:LYS:HA	43:BW:63:ASP:OD1	2.18	0.44
43:BW:66:VAL:CG2	43:BW:67:LYS:H	2.26	0.44
27:DE:147:LEU:O	27:DE:148:ILE:HG13	2.18	0.44
46:BZ:63:ARG:NH2	46:BZ:66:ILE:HD12	2.33	0.44
34:BM:45:GLN:HE21	34:BM:119:LEU:HB3	1.81	0.44
40:BS:17:VAL:HG23	40:BS:76:VAL:HG21	2.00	0.44
31:DJ:110:PRO:O	31:DJ:111:LYS:HB2	2.18	0.44
31:BJ:85:LYS:HD3	31:BJ:85:LYS:HA	1.77	0.44
39:BR:42:ALA:HA	39:BR:54:VAL:HG22	1.99	0.44
39:BR:68:ARG:HD2	39:BR:70:GLU:OE1	2.17	0.44
27:BE:148:ILE:N	27:BE:183:PHE:HB3	2.31	0.44
3:CD:100:VAL:HG12	3:CD:101:VAL:N	2.33	0.44
10:AK:109:ILE:HG22	21:AU:16:ARG:HD2	1.99	0.44
24:BV:30:ILE:O	24:BV:37:PRO:HA	2.18	0.44
26:DD:180:VAL:HG23	26:DD:181:ASP:N	2.32	0.44
23:DB:635:C:OP2	33:DL:126:ARG:NE	2.42	0.44
23:BB:137:U:C2'	23:BB:138:U:H5'	2.48	0.44
41:BT:15:HIS:HB2	41:BT:31:VAL:HG21	1.99	0.44
41:BT:6:ARG:O	41:BT:8:LEU:N	2.50	0.44
23:BB:2512:C:O2'	26:BD:146:ILE:CG1	2.66	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:22:LEU:HD22	44:DX:25:GLN:CD	2.38	0.44
25:DC:51:ARG:HD3	25:DC:51:ARG:O	2.17	0.44
18:CS:5:LYS:C	18:CS:6:LYS:HG2	2.38	0.44
31:DJ:73:VAL:HG21	31:DJ:75:TYR:CE2	2.52	0.44
33:DL:120:VAL:HG12	33:DL:122:VAL:HG22	1.98	0.44
1:CA:1299:A:C5	1:CA:1301:U:H1'	2.53	0.44
29:BG:44:HIS:HB2	29:BG:49:LEU:HD23	2.00	0.44
35:BN:9:GLN:HB2	35:BN:9:GLN:HE21	1.54	0.44
2:AC:77:GLY:CA	2:AC:81:GLU:HB3	2.46	0.44
52:DI:54:ILE:C	52:DI:54:ILE:HD13	2.37	0.44
52:DI:138:VAL:HG12	52:DI:139:VAL:N	2.32	0.44
1:CA:234:C:H2'	1:CA:235:C:C6	2.53	0.44
1:CA:239:U:C6	1:CA:239:U:C5'	2.97	0.44
1:AA:1347:G:O2'	1:AA:1348:U:P	2.75	0.44
36:BO:76:LYS:HB2	36:BO:106:LEU:HD13	1.99	0.44
23:BB:346:A:H3'	23:BB:347:A:H8	1.83	0.44
40:DS:84:ARG:HH21	40:DS:98:LYS:HZ1	1.66	0.44
7:CH:103:VAL:HG22	7:CH:124:ILE:HA	1.99	0.44
28:BF:107:VAL:HB	28:BF:108:PRO:HD3	2.00	0.44
23:BB:1552:A:H2'	23:BB:1553:A:C5'	2.44	0.44
25:BC:237:ARG:HB2	25:BC:239:PHE:CE1	2.52	0.44
1:AA:500:G:H2'	1:AA:501:C:C6	2.53	0.44
40:DS:43:ALA:C	40:DS:45:VAL:H	2.20	0.44
40:DS:42:LYS:O	40:DS:45:VAL:HG22	2.17	0.44
2:CC:156:LEU:CD1	2:CC:165:GLU:HB2	2.47	0.44
1:CA:86:G:O2'	1:CA:87:C:P	2.76	0.44
40:DS:1:MET:HB3	40:DS:4:ILE:CD1	2.47	0.44
23:DB:1028:A:N6	23:DB:1125:G:H2'	2.33	0.44
15:AP:6:LEU:HD12	15:AP:6:LEU:N	2.32	0.44
30:BH:23:ALA:C	30:BH:25:TYR:H	2.21	0.44
20:AB:104:LYS:HE3	20:AB:104:LYS:HB2	1.82	0.44
29:BG:125:PRO:HD2	29:BG:129:GLU:HB2	2.00	0.44
1:CA:695:A:C5'	10:CK:52:ARG:HH22	2.29	0.44
3:AD:39:GLN:HB3	3:AD:40:HIS:ND1	2.32	0.44
1:AA:206:C:H2'	1:AA:207:C:C6	2.53	0.44
1:CA:729:A:H2'	1:CA:730:G:H8	1.83	0.44
1:CA:731:G:OP1	1:CA:766:A:H1'	2.16	0.44
23:BB:565:C:O2'	23:BB:566:U:H5'	2.18	0.44
23:DB:435:C:H2'	23:DB:436:C:H5'	1.99	0.44
15:CP:40:ASN:HD21	15:CP:42:ILE:CG1	2.30	0.44
23:BB:1509:A:C4'	23:BB:1510:G:H5'	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DO:79:ALA:O	36:DO:82:ALA:HB3	2.18	0.44
23:BB:1724:G:H2'	23:BB:1725:U:H6	1.82	0.44
16:AQ:39:ARG:HH11	16:AQ:39:ARG:CB	2.30	0.44
23:DB:1746:A:H2'	23:DB:1747:U:C6	2.53	0.44
23:BB:1418:G:N2	23:BB:1579:A:C8	2.85	0.44
31:DJ:94:ALA:CB	31:DJ:95:ARG:HH21	2.31	0.44
23:DB:661:A:H2'	23:DB:662:G:H8	1.82	0.44
1:CA:448:A:H2'	1:CA:449:G:C8	2.53	0.44
23:DB:1529:G:H2'	23:DB:1530:G:C8	2.53	0.44
23:DB:2438:U:O2'	23:DB:2439:A:H5''	2.18	0.44
34:BM:58:LYS:C	34:BM:60:GLN:N	2.71	0.44
23:BB:2236:U:O2'	23:BB:2237:G:H5'	2.18	0.44
2:AC:41:TYR:HA	2:AC:44:LYS:CD	2.47	0.44
40:BS:86:MET:HB2	40:BS:96:ILE:HD11	1.98	0.44
23:BB:197:A:H62	23:BB:2430:A:H2'	1.83	0.44
23:DB:1027:A:N3	23:DB:2488:G:H5''	2.32	0.44
1:CA:1481:U:H2'	1:CA:1482:G:C8	2.52	0.44
23:DB:1985:C:O2'	23:DB:1986:C:H5'	2.17	0.44
1:CA:659:U:O2'	1:CA:660:C:H5'	2.18	0.44
23:BB:2712:C:H2'	23:BB:2714:G:O3'	2.17	0.44
6:CG:78:ARG:HD2	6:CG:81:GLY:H	1.82	0.44
3:AD:71:PHE:O	3:AD:74:TYR:HB2	2.17	0.44
6:AG:115:MET:CE	6:AG:119:LEU:HB2	2.47	0.44
7:AH:102:VAL:HG12	7:AH:125:ILE:HD12	1.99	0.44
23:BB:2508:G:O3'	23:BB:2555:U:H5'	2.18	0.44
22:DA:92:C:H2'	22:DA:93:C:H6	1.82	0.44
23:DB:1145:C:O2'	23:DB:1146:C:H5'	2.17	0.44
4:CE:99:SER:C	4:CE:101:GLY:H	2.20	0.44
23:BB:378:C:O2'	23:BB:379:G:H5'	2.17	0.44
23:BB:43:G:H2'	23:BB:44:A:O4'	2.18	0.44
1:CA:705:G:N2	10:CK:43:TRP:CE3	2.85	0.44
6:CG:147:ASN:C	6:CG:149:ALA:H	2.21	0.44
23:BB:456:C:H3'	41:BT:72:GLN:HE22	1.82	0.44
41:BT:71:GLY:O	41:BT:72:GLN:HG3	2.17	0.44
1:AA:1340:A:H2'	1:AA:1341:U:H6	1.81	0.44
23:DB:1098:A:C8	52:DI:3:LYS:HB3	2.53	0.44
43:DW:45:HIS:HE1	43:DW:71:LYS:HG3	1.81	0.44
43:DW:81:ILE:HG23	43:DW:83:ALA:H	1.82	0.44
25:BC:103:ILE:HG22	25:BC:104:LEU:H	1.81	0.44
25:BC:140:VAL:HG23	25:BC:193:GLU:OE2	2.17	0.44
34:BM:8:LYS:O	34:BM:10:ARG:N	2.50	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2055:C:H4'	23:BB:2056:G:H5''	1.99	0.44
23:BB:2617:U:H2'	23:BB:2618:G:C5'	2.48	0.44
23:DB:144:A:C5	41:DT:3:ARG:NH1	2.86	0.44
25:DC:251:THR:O	25:DC:252:LYS:CB	2.65	0.44
23:DB:1802:A:C4'	25:DC:255:LYS:HE2	2.40	0.44
13:AN:11:LYS:O	13:AN:15:LEU:HG	2.18	0.44
40:DS:9:HIS:HA	40:DS:100:THR:OG1	2.18	0.44
41:DT:15:HIS:O	41:DT:16:VAL:CB	2.66	0.44
8:AI:43:ALA:C	8:AI:45:MET:H	2.21	0.44
31:DJ:4:PHE:HD1	31:DJ:5:THR:N	2.16	0.44
31:DJ:7:LYS:HD2	31:DJ:45:THR:HG21	1.99	0.44
18:CS:39:ILE:HD11	18:CS:70:LEU:HD13	2.00	0.44
35:BN:45:ARG:HD2	35:BN:45:ARG:H	1.82	0.44
5:CF:30:THR:HA	5:CF:34:GLY:O	2.18	0.44
39:BR:41:ILE:HG12	39:BR:60:LYS:O	2.17	0.44
12:AM:44:ILE:O	12:AM:47:LEU:HB2	2.17	0.44
27:BE:12:LEU:CD2	27:BE:118:LEU:HA	2.48	0.44
3:CD:169:TRP:CD1	3:CD:170:LEU:HG	2.53	0.44
26:DD:24:VAL:HG21	26:DD:193:VAL:HG13	2.00	0.44
26:DD:27:ILE:C	26:DD:27:ILE:HD13	2.37	0.44
30:DH:104:THR:HA	30:DH:108:VAL:O	2.18	0.44
13:CN:71:GLY:O	13:CN:79:SER:HA	2.17	0.44
1:CA:719:C:O2	17:CR:37:LYS:HA	2.18	0.44
32:BK:63:VAL:HG13	32:BK:107:LEU:HD22	2.00	0.44
23:BB:2733:A:H2'	23:BB:2734:A:O4'	2.17	0.44
52:BI:7:TYR:HB2	52:BI:59:THR:HA	1.99	0.44
23:DB:165:A:H2'	23:DB:166:U:C6	2.50	0.44
26:BD:2:ILE:CG2	26:BD:204:LYS:HG3	2.48	0.44
26:BD:88:GLU:HG2	26:BD:89:GLU:H	1.83	0.44
52:BI:11:GLN:NE2	52:BI:74:PRO:HG2	2.33	0.44
28:DF:35:LEU:HA	28:DF:153:ILE:HA	2.00	0.44
45:DY:43:ILE:HA	45:DY:46:MET:CB	2.48	0.44
38:DQ:88:GLU:O	38:DQ:89:ILE:C	2.56	0.44
8:CI:42:THR:HA	8:CI:45:MET:SD	2.57	0.44
19:AT:27:MET:HE3	19:AT:66:ILE:HG12	1.99	0.44
14:CO:70:LYS:HB2	14:CO:77:TYR:CG	2.52	0.44
42:DU:8:ASP:HB2	42:DU:25:LYS:HE3	2.00	0.44
30:DH:114:GLU:HB3	30:DH:133:GLN:NE2	2.25	0.44
20:CB:72:LYS:O	20:CB:74:ALA:N	2.51	0.44
37:BP:92:ARG:HB3	37:BP:110:LYS:O	2.18	0.44
32:DK:2:ILE:HG23	32:DK:33:ALA:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:42:VAL:HG22	29:DG:43:LYS:N	2.33	0.44
1:CA:947:G:H5''	12:CM:106:ARG:HB2	2.00	0.44
24:DV:29:ILE:HG13	24:DV:30:ILE:N	2.33	0.44
3:CD:137:SER:HB3	3:CD:138:PRO:HD2	2.00	0.44
12:CM:95:PRO:HG2	12:CM:101:THR:HG22	1.98	0.44
23:BB:512:G:H4'	23:BB:512:G:OP1	2.18	0.44
23:BB:675:A:O2'	27:BE:62:GLN:NE2	2.51	0.44
23:BB:2601:C:C3'	23:BB:2602:A:H5''	2.48	0.44
1:AA:1151:A:HO2'	1:AA:1152:A:H8	1.61	0.44
1:AA:1001:C:H2'	1:AA:1002:G:C8	2.53	0.44
1:CA:1172:C:O2'	1:CA:1173:U:H5'	2.17	0.44
1:CA:500:G:H2'	1:CA:501:C:C6	2.53	0.44
23:DB:245:G:OP1	33:DL:67:THR:HB	2.18	0.44
23:BB:1843:C:H2'	23:BB:1844:C:H6	1.81	0.44
10:AK:69:CYS:C	10:AK:71:ASP:N	2.70	0.44
23:DB:1171:G:N1	23:DB:1179:G:C6	2.85	0.44
3:AD:32:LYS:O	3:AD:35:GLN:HB2	2.17	0.44
24:BV:79:ARG:NH1	24:BV:86:LEU:HD11	2.33	0.44
17:AR:63:TYR:C	17:AR:65:SER:H	2.21	0.44
23:BB:2070:A:H2'	23:BB:2071:A:O4'	2.18	0.44
1:CA:397:A:H3'	1:CA:397:A:N3	2.33	0.44
1:CA:89:U:O2'	1:CA:90:C:H5'	2.17	0.44
23:DB:1446:C:H2'	23:DB:1447:C:C6	2.52	0.44
23:DB:1680:U:H2'	23:DB:1681:G:O4'	2.18	0.44
23:DB:619:G:H2'	23:DB:620:G:H5''	2.00	0.44
5:AF:6:ILE:HB	5:AF:89:VAL:HB	2.00	0.44
23:BB:2425:A:O2'	23:BB:2426:A:OP2	2.28	0.44
23:DB:104:A:H2'	23:DB:105:C:C6	2.49	0.44
1:CA:401:C:O2'	1:CA:402:G:H5'	2.18	0.44
5:AF:41:ASP:OD1	5:AF:58:HIS:HE1	2.01	0.44
23:BB:296:U:H2'	23:BB:297:G:C8	2.48	0.44
1:AA:993:G:C2'	1:AA:995:C:H41	2.31	0.44
27:DE:58:LYS:HA	27:DE:59:PRO:HD3	1.66	0.44
37:BP:24:THR:HG21	37:BP:111:GLU:OE2	2.17	0.44
8:CI:5:TYR:O	8:CI:19:PHE:HB3	2.16	0.44
23:BB:1585:C:H2'	23:BB:1586:A:C8	2.52	0.44
1:CA:542:G:O2'	1:CA:543:U:H5'	2.18	0.44
23:DB:1243:C:H1'	33:DL:14:LYS:HE3	2.00	0.44
52:DI:7:TYR:CZ	52:DI:57:VAL:HG11	2.52	0.44
23:DB:729:G:H4'	23:DB:763:G:C5'	2.47	0.44
1:AA:1264:U:O2'	1:AA:1265:C:H5'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:109:A:C6	1:CA:326:G:C6	3.06	0.44
9:AJ:66:GLU:OE2	13:AN:98:ALA:HA	2.17	0.44
23:BB:2221:G:H2'	23:BB:2222:C:H6	1.83	0.44
1:AA:1050:G:O2'	1:AA:1051:C:H5'	2.18	0.44
26:BD:135:GLY:C	26:BD:137:SER:H	2.21	0.44
1:AA:29:U:H5'	1:AA:296:U:OP1	2.17	0.44
36:BO:27:VAL:HA	36:BO:94:ARG:HB3	2.00	0.44
1:CA:223:A:H2'	1:CA:224:U:C6	2.53	0.44
23:BB:455:C:N3	23:BB:472:A:H2'	2.33	0.44
1:CA:605:U:H2'	1:CA:606:G:C8	2.53	0.44
47:D0:23:ALA:C	47:D0:25:THR:H	2.21	0.44
23:BB:1110:G:N2	23:BB:1111:A:N6	2.66	0.44
23:BB:2286:G:H5'	23:BB:2286:G:N3	2.33	0.44
40:DS:92:ARG:HH11	40:DS:92:ARG:HG2	1.82	0.44
40:DS:56:ALA:O	40:DS:59:GLU:HB3	2.17	0.44
52:DI:4:VAL:HG22	52:DI:5:GLN:N	2.33	0.44
23:DB:2849:U:C4'	23:DB:2868:A:C2	3.01	0.44
42:BU:12:VAL:CG1	42:BU:18:LYS:H	2.31	0.44
27:BE:40:ARG:HG2	27:BE:92:HIS:HB2	2.00	0.44
37:BP:23:ASP:H	37:BP:93:LYS:HZ1	1.66	0.44
37:BP:54:LEU:HB3	37:BP:55:HIS:H	1.53	0.44
25:BC:128:THR:HG22	25:BC:129:LEU:H	1.83	0.44
25:DC:182:LYS:HE2	25:DC:264:LYS:HZ2	1.83	0.44
23:BB:338:G:C2'	23:BB:339:U:H5'	2.48	0.44
23:BB:340:A:C2'	23:BB:341:C:H5'	2.48	0.44
30:BH:30:LEU:O	30:BH:35:LYS:N	2.50	0.44
27:DE:139:LYS:HA	27:DE:143:LEU:HD23	1.98	0.44
33:BL:56:PRO:HG3	33:BL:60:ARG:HH21	1.82	0.44
32:BK:26:GLY:HA3	32:BK:30:ARG:HG3	2.00	0.44
26:BD:155:VAL:O	26:BD:156:PHE:HB2	2.18	0.44
39:BR:77:PHE:O	39:BR:78:ARG:HG3	2.17	0.44
9:AJ:37:ARG:HB2	9:AJ:77:VAL:CG1	2.48	0.44
41:DT:76:ARG:HG2	41:DT:77:ARG:H	1.83	0.44
33:BL:30:THR:HG22	33:BL:36:LYS:HZ2	1.79	0.44
33:BL:38:GLN:CG	33:BL:39:LYS:H	2.26	0.44
41:DT:61:LEU:HB3	41:DT:62:VAL:H	1.55	0.44
8:AI:33:SER:HB3	8:AI:36:GLN:CB	2.43	0.44
8:AI:43:ALA:HA	8:AI:44:ARG:HH12	1.82	0.44
23:BB:2305:U:N3	28:BF:150:GLY:HA3	2.33	0.44
35:BN:48:VAL:O	35:BN:52:ILE:HG12	2.18	0.44
34:DM:16:ARG:O	34:DM:17:ASN:HB3	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:DM:4:PRO:HB2	34:DM:69:PRO:HG3	1.99	0.44
23:BB:1152:C:H3'	55:BB:3244:HOH:O	2.17	0.44
39:BR:39:LEU:O	39:BR:54:VAL:HG11	2.17	0.44
39:BR:43:ASN:OD1	39:BR:56:GLY:HA3	2.18	0.44
47:B0:35:GLU:C	47:B0:37:HIS:H	2.21	0.44
27:BE:122:GLU:OE2	27:BE:152:GLU:HB2	2.18	0.44
27:BE:117:ARG:HA	27:BE:188:MET:SD	2.57	0.44
26:DD:181:ASP:OD1	26:DD:184:ARG:HB3	2.17	0.44
26:DD:180:VAL:HA	26:DD:187:LEU:HA	1.99	0.44
23:DB:630:G:H1	33:DL:69:ARG:HH12	1.64	0.44
41:BT:31:VAL:O	41:BT:32:LEU:O	2.36	0.44
33:DL:59:ARG:HH21	50:D3:5:THR:CB	2.30	0.44
26:BD:31:ALA:O	26:BD:32:ASN:ND2	2.50	0.44
23:DB:2313:C:H2'	23:DB:2314:A:C8	2.53	0.44
45:DY:36:GLU:HG2	45:DY:37:ARG:N	2.32	0.44
38:DQ:111:LYS:HE2	39:DR:52:PRO:CG	2.45	0.44
5:AF:38:ARG:CB	5:AF:63:ASN:HB2	2.37	0.44
31:DJ:73:VAL:CG2	31:DJ:74:TYR:N	2.81	0.44
2:AC:171:ARG:HH12	2:AC:173:PRO:HG3	1.83	0.44
23:DB:2061:G:H5''	23:DB:2503:A:N1	2.32	0.44
23:BB:1080:A:H2'	23:BB:1081:U:C6	2.52	0.44
23:BB:2335:A:OP2	36:BO:9:ARG:HA	2.18	0.44
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.17	0.44
1:AA:15:G:O2'	4:AE:21:SER:HB2	2.17	0.44
23:BB:2324:U:C5'	23:BB:2325:G:H5''	2.45	0.44
1:CA:807:A:N3	25:DC:4:LYS:HE3	2.31	0.44
11:CL:100:ALA:O	11:CL:101:LEU:C	2.56	0.44
11:AL:117:GLY:O	11:AL:118:VAL:HG13	2.18	0.44
48:B1:10:LEU:CD1	48:B1:25:ASN:HD22	2.31	0.44
1:CA:523:A:N1	11:CL:88:ASP:HB2	2.33	0.44
1:CA:551:U:H2'	1:CA:552:U:C6	2.53	0.44
33:DL:19:LEU:O	33:DL:21:ARG:N	2.50	0.44
7:CH:10:LEU:HD22	7:CH:74:ILE:CD1	2.43	0.44
23:BB:55:G:P	49:B2:35:ARG:HE	2.40	0.44
1:CA:878:A:H5''	7:CH:80:PRO:HG2	2.00	0.44
4:CE:82:HIS:CE1	4:CE:146:MET:HB2	2.53	0.44
23:DB:1252:G:H5''	55:DB:3462:HOH:O	2.18	0.44
23:DB:153:U:H2'	23:DB:154:U:C6	2.53	0.44
19:CT:73:ARG:O	19:CT:74:HIS:C	2.55	0.44
35:DN:103:ARG:HB3	35:DN:107:ASN:N	2.33	0.44
23:BB:2247:A:H3'	55:BB:3268:HOH:O	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DF:8:LYS:HA	28:DF:12:VAL:CG2	2.48	0.44
1:AA:1049:U:C2'	13:AN:2:LYS:HD3	2.45	0.44
3:CD:84:ASN:HD21	3:CD:87:GLU:HG3	1.82	0.44
23:DB:2556:C:O2'	23:DB:2557:G:H5'	2.17	0.44
23:BB:1592:C:H2'	23:BB:1593:A:H8	1.83	0.44
20:AB:131:LYS:O	20:AB:134:LEU:HB2	2.18	0.44
1:AA:1172:C:H2'	1:AA:1173:U:H6	1.82	0.44
9:CJ:37:ARG:N	9:CJ:76:ILE:HG12	2.33	0.44
37:BP:38:ARG:CG	37:BP:39:LEU:H	2.28	0.44
36:DO:29:HIS:CB	36:DO:36:TYR:HB2	2.48	0.44
23:BB:1965:C:H3'	23:BB:1966:A:H8	1.83	0.44
1:AA:11:G:H2'	1:AA:12:U:C6	2.52	0.44
1:CA:1143:G:O2'	1:CA:1144:G:H5'	2.16	0.44
9:AJ:36:VAL:HG22	9:AJ:76:ILE:HG22	1.99	0.44
23:DB:930:G:H5'	23:DB:931:U:P	2.57	0.44
23:BB:850:U:O2'	45:BY:21:ALA:HA	2.18	0.44
11:AL:49:ARG:C	11:AL:50:LYS:HE2	2.38	0.44
28:DF:120:SER:HB3	28:DF:127:TYR:HE1	1.83	0.44
23:BB:1529:G:H2'	23:BB:1530:G:C8	2.52	0.44
1:CA:1432:G:H1'	1:CA:1468:A:H61	1.81	0.44
23:DB:844:A:H2	23:DB:845:A:N1	2.16	0.44
1:AA:857:C:H2'	1:AA:858:G:O4'	2.17	0.44
23:BB:2581:G:N3	23:BB:2581:G:H2'	2.33	0.44
1:CA:1464:U:H2'	1:CA:1465:A:H8	1.83	0.44
1:CA:541:G:H2'	1:CA:542:G:C8	2.52	0.44
23:DB:326:G:O2'	23:DB:327:G:H5'	2.17	0.44
1:AA:488:C:H2'	1:AA:489:C:C6	2.52	0.44
20:AB:90:PHE:CE2	20:AB:149:GLY:HA3	2.52	0.44
1:CA:182:A:O2'	1:CA:183:C:O5'	2.34	0.44
22:BA:64:G:H2'	22:BA:65:U:C6	2.53	0.44
30:DH:45:GLU:O	30:DH:45:GLU:HG3	2.18	0.44
25:BC:198:GLU:C	25:BC:200:MET:N	2.70	0.44
1:CA:28:A:O2'	1:CA:296:U:OP1	2.32	0.44
1:AA:432:A:H2'	1:AA:433:G:H5'	1.99	0.44
23:DB:1311:G:H21	23:DB:1603:A:H62	1.65	0.44
18:AS:44:ILE:HA	18:AS:61:VAL:CG1	2.48	0.44
22:BA:45:A:O2'	22:BA:46:A:H5'	2.18	0.44
20:CB:21:TYR:O	20:CB:22:TRP:O	2.36	0.44
23:DB:998:C:H2'	23:DB:999:U:O4'	2.17	0.44
1:CA:41:G:H2'	1:CA:42:G:H8	1.82	0.44
41:DT:64:LYS:HE3	41:DT:64:LYS:N	2.33	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CG:108:ARG:HH11	6:CG:108:ARG:HG3	1.83	0.44
1:AA:989:U:O2'	1:AA:990:C:H5'	2.18	0.44
9:AJ:11:LYS:NZ	9:AJ:99:GLN:H	2.15	0.44
33:DL:101:ILE:HG22	33:DL:101:ILE:O	2.17	0.44
20:CB:42:LEU:C	20:CB:44:LYS:H	2.20	0.44
37:BP:48:ALA:C	37:BP:49:ILE:HG13	2.38	0.44
37:BP:83:ILE:HG22	37:BP:84:SER:N	2.33	0.44
30:DH:31:VAL:CB	30:DH:32:PRO:HD3	2.38	0.44
35:DN:112:TYR:HE2	47:D0:43:THR:HB	1.82	0.44
23:DB:2811:G:H2'	23:DB:2812:G:H8	1.83	0.44
35:DN:32:GLU:HG3	35:DN:33:ILE:H	1.80	0.44
42:DU:4:ILE:HD13	42:DU:4:ILE:C	2.38	0.44
27:DE:151:GLY:O	27:DE:158:PHE:HE1	2.01	0.44
23:DB:323:C:C5	27:DE:165:HIS:HB2	2.53	0.44
27:DE:168:ASP:OD2	27:DE:170:ARG:HG2	2.18	0.44
33:BL:122:VAL:HG22	33:BL:139:GLY:O	2.18	0.44
23:BB:872:U:H1'	34:BM:68:PHE:CZ	2.53	0.44
39:BR:85:LYS:C	39:BR:87:GLN:N	2.71	0.44
23:DB:138:U:O3'	23:DB:139:U:H3'	2.17	0.44
41:DT:76:ARG:N	41:DT:76:ARG:HD3	2.33	0.44
23:BB:1157:G:H2'	23:BB:1158:C:C6	2.53	0.44
23:BB:992:C:H1'	39:BR:91:GLN:HB2	1.99	0.44
23:BB:499:U:H2'	23:BB:500:G:O4'	2.17	0.44
23:BB:500:G:H1'	23:BB:505:A:N6	2.33	0.44
41:DT:55:VAL:HG21	41:DT:86:THR:H	1.82	0.44
41:DT:31:VAL:HA	41:DT:84:TYR:HA	2.00	0.44
8:AI:33:SER:C	8:AI:35:GLU:H	2.21	0.44
31:BJ:37:ARG:HH21	31:BJ:110:PRO:HG3	1.83	0.44
23:DB:2643:G:H2'	23:DB:2644:G:O4'	2.18	0.44
40:BS:31:GLN:C	40:BS:33:LEU:N	2.71	0.44
43:BW:34:SER:OG	43:BW:39:GLN:NE2	2.51	0.44
26:DD:5:VAL:HG21	26:DD:28:GLU:HA	2.00	0.44
26:DD:69:ALA:HB2	26:DD:91:THR:OG1	2.18	0.44
26:DD:89:GLU:HG2	26:DD:93:GLY:CA	2.41	0.44
41:BT:62:VAL:O	41:BT:63:VAL:O	2.35	0.44
33:BL:88:GLY:C	33:BL:90:VAL:H	2.20	0.44
30:BH:62:LEU:O	30:BH:66:ASN:N	2.51	0.44
13:CN:55:SER:OG	13:CN:56:PRO:HD2	2.18	0.44
21:AU:31:VAL:O	21:AU:32:ARG:C	2.56	0.44
40:DS:17:VAL:HG11	40:DS:103:ILE:CD1	2.48	0.44
10:CK:82:GLU:CB	10:CK:108:ASN:HB3	2.48	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2073:C:O2'	23:BB:2074:U:H5'	2.18	0.44
25:BC:225:ASN:O	25:BC:227:VAL:N	2.51	0.44
1:CA:16:A:O2'	4:CE:20:VAL:HG23	2.18	0.44
48:B1:42:VAL:HG12	48:B1:43:ARG:N	2.33	0.44
28:DF:107:VAL:CG1	28:DF:175:PRO:HG3	2.48	0.44
23:DB:1057:A:C8	23:DB:1086:A:C8	3.05	0.44
1:CA:617:G:C5'	15:CP:46:LYS:HD3	2.48	0.44
11:CL:20:VAL:HA	11:CL:94:TYR:HE2	1.83	0.44
23:BB:465:G:H2'	23:BB:466:A:C8	2.52	0.44
42:DU:9:GLU:HB3	42:DU:21:ARG:HG2	1.99	0.44
5:CF:99:ALA:O	5:CF:100:SER:HB2	2.18	0.44
30:DH:134:VAL:HG12	30:DH:134:VAL:O	2.18	0.44
29:DG:53:PRO:HG2	29:DG:61:TRP:CE3	2.52	0.44
23:DB:1157:G:N3	45:DY:10:ARG:NH2	2.66	0.44
48:D1:49:LYS:HZ2	48:D1:50:GLU:N	2.15	0.44
52:DI:21:PRO:HB2	52:DI:22:PRO:CD	2.43	0.44
34:DM:133:LYS:CG	34:DM:134:THR:H	2.31	0.44
52:BI:19:PRO:HG2	52:BI:22:PRO:HB2	2.00	0.44
20:AB:58:LYS:CG	20:AB:62:ARG:HH21	2.26	0.44
16:CQ:68:LYS:C	16:CQ:70:LYS:H	2.21	0.44
1:AA:1368:A:O2'	1:AA:1369:C:H5'	2.18	0.44
25:DC:22:GLU:HB2	25:DC:202:ARG:HG3	1.99	0.44
1:AA:1248:A:H2	8:AI:71:ILE:HD11	1.82	0.44
23:BB:106:C:H2'	23:BB:107:G:H8	1.83	0.44
41:BT:68:LYS:HE3	41:BT:73:ARG:HG3	1.99	0.44
23:DB:1547:C:H2'	23:DB:1548:A:H8	1.81	0.44
40:DS:4:ILE:HA	40:DS:106:VAL:HG12	1.98	0.44
22:BA:78:A:H61	22:BA:98:G:H1'	1.83	0.44
22:DA:22:U:H2'	22:DA:23:G:H8	1.75	0.44
1:AA:1520:C:H2'	1:AA:1521:C:C6	2.53	0.44
27:BE:97:ASN:HB2	27:BE:100:MET:HB2	1.99	0.44
1:AA:542:G:O2'	1:AA:543:U:H5'	2.18	0.44
1:CA:57:G:N2	1:CA:388:G:C6	2.86	0.44
1:CA:56:U:O5'	1:CA:56:U:H6	2.00	0.44
1:CA:372:C:C1'	1:CA:373:A:OP2	2.66	0.44
23:BB:1446:C:H2'	23:BB:1447:C:C6	2.52	0.44
23:DB:1965:C:H3'	23:DB:1966:A:H8	1.83	0.44
16:CQ:23:ALA:HB1	16:CQ:40:THR:CG2	2.48	0.44
27:DE:126:VAL:HG13	27:DE:126:VAL:O	2.18	0.44
23:DB:2787:C:H2'	23:DB:2788:C:C6	2.53	0.44
40:BS:48:LYS:O	40:BS:52:GLU:HG3	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1483:A:H2	23:BB:1959:G:HO2'	1.64	0.44
44:DX:1:MET:N	44:DX:6:LEU:HG	2.33	0.44
1:AA:551:U:H2'	1:AA:552:U:C6	2.53	0.44
23:DB:1710:G:H2'	23:DB:1711:A:H8	1.83	0.44
50:B3:57:VAL:HG13	50:B3:58:ILE:N	2.32	0.44
23:BB:2438:U:O2'	23:BB:2439:A:H5''	2.18	0.44
8:CI:62:LEU:HD22	8:CI:62:LEU:H	1.83	0.44
22:BA:54:G:O2'	22:BA:55:U:H5'	2.17	0.44
23:BB:539:G:H2'	23:BB:540:C:C6	2.53	0.44
1:CA:649:A:H2'	1:CA:650:G:O4'	2.17	0.44
22:DA:29:A:H8	22:DA:29:A:OP1	2.01	0.44
3:CD:197:HIS:O	3:CD:200:VAL:HG12	2.17	0.44
3:AD:66:VAL:CG1	3:AD:70:GLN:HB3	2.47	0.44
23:DB:2604:U:O2'	23:DB:2605:U:H5'	2.17	0.44
23:BB:1072:C:N3	23:BB:1092:C:N4	2.65	0.44
23:DB:502:A:N6	23:DB:505:A:N1	2.66	0.44
22:BA:107:G:O2'	22:BA:108:A:H5'	2.18	0.44
52:BI:72:THR:HB	52:BI:73:PRO:HD2	1.99	0.44
30:DH:27:ARG:HH11	46:DZ:56:ARG:HD2	1.82	0.44
1:AA:1129:C:O2'	1:AA:1139:G:N7	2.42	0.44
29:DG:72:ASN:O	29:DG:76:ILE:HG13	2.18	0.44
23:DB:2201:G:O2'	23:DB:2202:U:H5'	2.17	0.44
23:BB:2533:U:H2'	23:BB:2534:A:O4'	2.17	0.44
37:DP:49:ILE:HA	37:DP:62:LYS:O	2.18	0.43
23:BB:661:A:O2'	33:BL:23:ILE:HG12	2.18	0.43
42:BU:90:LYS:CD	42:BU:91:LYS:H	2.32	0.43
20:CB:38:HIS:O	20:CB:39:ILE:HD13	2.17	0.43
25:BC:128:THR:CA	25:BC:190:THR:HA	2.41	0.43
23:BB:855:G:H21	43:BW:23:LYS:CG	2.30	0.43
18:AS:51:HIS:C	18:AS:53:GLY:H	2.21	0.43
27:DE:147:LEU:HB3	27:DE:167:VAL:CG1	2.45	0.43
27:DE:192:ALA:HB1	27:DE:199:MET:HG2	2.00	0.43
23:BB:2231:U:OP1	46:BZ:28:VAL:HG12	2.17	0.43
8:CI:27:ILE:CG2	8:CI:34:LEU:HB2	2.31	0.43
34:BM:8:LYS:O	34:BM:9:PHE:CD1	2.71	0.43
23:BB:2052:A:C5'	26:BD:148:GLN:O	2.65	0.43
25:DC:179:GLU:CB	25:DC:266:ILE:HA	2.48	0.43
23:DB:2293:G:C5'	36:DO:9:ARG:HH21	2.31	0.43
39:BR:90:ARG:NH1	39:BR:91:GLN:N	2.64	0.43
31:DJ:41:LYS:HG2	38:DQ:63:ARG:CZ	2.48	0.43
28:BF:136:ILE:C	28:BF:138:PRO:HD3	2.39	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CS:39:ILE:HB	18:CS:66:VAL:O	2.18	0.43
39:BR:46:GLU:O	39:BR:47:VAL:CB	2.66	0.43
24:BV:4:ILE:HD11	24:BV:61:LEU:HD12	2.00	0.43
26:DD:33:ARG:HD2	26:DD:89:GLU:OE2	2.17	0.43
37:DP:100:ARG:N	37:DP:100:ARG:HD2	2.33	0.43
44:BX:22:LEU:CA	44:BX:47:ARG:HH22	2.31	0.43
23:BB:1658:C:OP1	26:BD:136:ASN:CA	2.66	0.43
28:DF:141:ASP:C	28:DF:143:ASP:H	2.21	0.43
26:BD:32:ASN:OD1	26:BD:73:VAL:HB	2.18	0.43
39:BR:37:GLU:OE1	39:BR:62:GLU:HB2	2.18	0.43
4:CE:88:HIS:CE1	4:CE:137:ARG:HH11	2.35	0.43
10:CK:113:THR:CG2	21:CU:28:LEU:HD21	2.48	0.43
25:BC:19:VAL:CG1	25:BC:20:ASN:H	2.20	0.43
23:DB:1000:A:C8	23:DB:1154:G:N2	2.86	0.43
6:AG:114:SER:O	6:AG:118:ARG:HG3	2.18	0.43
23:BB:1914:C:H2'	23:BB:1915:U:O4'	2.17	0.43
1:AA:234:C:H2'	1:AA:235:C:C6	2.53	0.43
1:CA:236:A:H2'	1:CA:237:G:C8	2.53	0.43
48:D1:27:ARG:HE	48:D1:27:ARG:H	1.65	0.43
5:CF:48:ALA:H	17:CR:65:SER:HB2	1.82	0.43
23:DB:946:C:H2'	23:DB:947:A:C8	2.48	0.43
1:CA:255:G:H2'	1:CA:256:U:C6	2.53	0.43
23:BB:2385:C:H2'	23:BB:2386:A:C8	2.53	0.43
52:BI:83:ALA:CA	52:BI:100:ILE:HD11	2.48	0.43
27:DE:129:PRO:O	27:DE:130:LYS:HB2	2.18	0.43
4:AE:114:LEU:C	4:AE:116:VAL:H	2.21	0.43
25:BC:260:LYS:C	25:BC:262:THR:H	2.21	0.43
39:BR:97:LYS:HA	39:BR:97:LYS:HD2	1.82	0.43
18:CS:30:LEU:HB2	18:CS:48:ILE:HA	2.00	0.43
23:DB:1346:G:C6	23:DB:1601:G:C6	3.05	0.43
24:BV:79:ARG:HG2	24:BV:79:ARG:H	1.46	0.43
5:AF:51:ILE:CD1	5:AF:86:ARG:HG3	2.48	0.43
29:BG:97:VAL:HG23	29:BG:124:CYS:SG	2.58	0.43
20:AB:112:ARG:HG3	20:AB:112:ARG:NH1	2.32	0.43
11:CL:93:ARG:N	11:CL:93:ARG:HD2	2.29	0.43
23:DB:2250:G:N7	34:DM:82:MET:SD	2.91	0.43
3:AD:187:ARG:HG3	3:AD:188:SER:N	2.32	0.43
37:BP:38:ARG:O	37:BP:39:LEU:HB2	2.18	0.43
2:CC:168:ARG:HE	2:CC:169:GLU:CA	2.30	0.43
13:AN:20:PHE:HA	13:AN:24:ALA:CB	2.46	0.43
34:BM:80:VAL:HG12	34:BM:81:ARG:HG2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:59:ARG:HG2	46:BZ:62:LYS:HB2	1.99	0.43
34:DM:97:GLN:H	34:DM:98:PRO:HD3	1.83	0.43
23:BB:728:G:H4'	25:BC:12:ARG:NH2	2.33	0.43
23:BB:1779:U:OP2	23:BB:1784:A:N6	2.46	0.43
1:AA:960:U:H1'	1:AA:961:U:OP2	2.17	0.43
23:BB:2886:A:C2	23:BB:2887:A:N7	2.85	0.43
23:DB:2787:C:H5'	26:DD:65:ALA:HB3	2.00	0.43
7:AH:92:PRO:HA	7:AH:93:LYS:NZ	2.32	0.43
29:BG:102:ILE:CG2	29:BG:104:LEU:HD11	2.48	0.43
23:DB:1418:G:N2	23:DB:1579:A:C8	2.86	0.43
6:AG:142:ARG:HB2	6:AG:142:ARG:CZ	2.48	0.43
10:AK:35:ASP:CB	10:AK:41:LEU:HD11	2.48	0.43
1:AA:847:G:H2'	1:AA:848:C:C6	2.52	0.43
23:DB:722:A:H2'	23:DB:723:C:O4'	2.18	0.43
1:CA:1211:U:H1'	1:CA:1213:A:C2	2.53	0.43
3:CD:121:ALA:CA	3:CD:145:ARG:HG3	2.48	0.43
1:CA:1463:U:H2'	1:CA:1464:U:C6	2.53	0.43
23:BB:1599:U:C2	23:BB:1600:C:C5	3.06	0.43
23:DB:1634:A:H3'	23:DB:1635:A:C5'	2.48	0.43
44:BX:10:SER:C	44:BX:12:GLU:H	2.22	0.43
23:BB:1775:U:H2'	23:BB:1776:G:C5'	2.48	0.43
23:BB:30:G:H2'	23:BB:31:C:C6	2.53	0.43
9:CJ:77:VAL:O	9:CJ:78:GLU:C	2.56	0.43
14:CO:2:LEU:O	14:CO:3:SER:HB3	2.18	0.43
23:BB:1659:G:C6	23:BB:2002:G:C6	3.06	0.43
40:DS:77:ASP:O	40:DS:101:SER:HB2	2.18	0.43
11:AL:6:LEU:HB3	16:AQ:33:TYR:CZ	2.52	0.43
1:CA:1125:U:HO2'	1:CA:1126:U:P	2.41	0.43
23:DB:2662:A:H2'	23:DB:2663:G:O4'	2.18	0.43
23:DB:1370:C:H2'	23:DB:1371:G:O4'	2.18	0.43
33:BL:115:GLU:OE1	33:BL:115:GLU:HA	2.17	0.43
1:AA:1378:C:H2'	1:AA:1378:C:O2	2.16	0.43
27:DE:73:ILE:O	27:DE:73:ILE:HG22	2.18	0.43
24:DV:92:VAL:O	24:DV:92:VAL:HG13	2.18	0.43
8:AI:97:LEU:N	8:AI:97:LEU:HD22	2.33	0.43
23:BB:2061:G:H3'	55:BB:3546:HOH:O	2.18	0.43
27:DE:49:ARG:HB2	27:DE:51:GLU:CD	2.38	0.43
30:BH:142:VAL:HG12	30:BH:143:ILE:N	2.32	0.43
27:BE:40:ARG:HD2	27:BE:43:THR:OG1	2.19	0.43
51:D4:2:LYS:HZ3	51:D4:2:LYS:HB2	1.82	0.43
25:BC:68:ARG:NH1	25:BC:127:ASN:OD1	2.51	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:134:ILE:HA	25:BC:135:PRO:HD3	1.91	0.43
47:D0:29:VAL:HG22	47:D0:30:ASP:H	1.81	0.43
23:DB:319:G:O2'	23:DB:320:A:H5'	2.18	0.43
27:DE:149:ILE:HD11	27:DE:188:MET:H	1.81	0.43
27:DE:141:MET:HG3	27:DE:185:LYS:HE3	1.99	0.43
23:BB:396:G:O2'	46:BZ:28:VAL:HG11	2.18	0.43
32:BK:12:ASP:OD2	32:BK:85:VAL:HA	2.19	0.43
33:BL:40:SER:O	33:BL:41:ARG:HB2	2.17	0.43
8:AI:32:ARG:HG2	8:AI:32:ARG:HH11	1.84	0.43
8:AI:38:PHE:O	8:AI:39:GLY:C	2.55	0.43
9:AJ:51:VAL:O	9:AJ:63:ASP:N	2.51	0.43
40:BS:33:LEU:HD22	40:BS:33:LEU:N	2.33	0.43
27:BE:3:LEU:HD21	27:BE:109:LEU:HD11	2.00	0.43
10:AK:110:THR:CG2	21:AU:4:LYS:HA	2.47	0.43
16:CQ:64:ARG:HG3	16:CQ:65:PRO:HD2	1.98	0.43
26:BD:132:ALA:O	26:BD:136:ASN:N	2.51	0.43
26:BD:122:VAL:HB	26:BD:141:ARG:HH12	1.82	0.43
26:BD:114:LYS:HD3	35:BN:3:HIS:CE1	2.54	0.43
1:AA:1099:G:H2'	1:AA:1100:C:O4'	2.18	0.43
28:BF:169:LEU:O	28:BF:173:ASP:OD1	2.36	0.43
23:DB:515:A:H2	23:DB:1260:A:N3	2.16	0.43
23:DB:1261:C:C2'	23:DB:1262:A:O5'	2.67	0.43
23:DB:285:G:C5	23:DB:356:G:C6	3.06	0.43
27:BE:75:SER:C	27:BE:77:ILE:H	2.22	0.43
28:DF:140:ILE:C	28:DF:142:TYR:H	2.21	0.43
52:BI:32:VAL:HG13	52:BI:66:PHE:CD2	2.53	0.43
26:BD:3:GLY:CA	26:BD:49:GLN:HE22	2.32	0.43
25:BC:222:THR:HA	25:BC:231:HIS:CE1	2.53	0.43
1:CA:1080:A:C4'	4:CE:20:VAL:HG21	2.43	0.43
8:CI:79:ARG:HA	8:CI:82:ILE:HD12	1.99	0.43
10:CK:121:ARG:HH21	21:CU:34:ARG:CD	2.30	0.43
21:AU:37:TYR:C	21:AU:40:PRO:HD2	2.38	0.43
1:AA:1424:U:H2'	1:AA:1425:U:H6	1.82	0.43
6:AG:19:SER:HB2	6:AG:21:LEU:CD2	2.48	0.43
52:DI:23:VAL:HG12	52:DI:24:GLY:H	1.83	0.43
35:BN:35:LYS:CA	35:BN:112:TYR:HB3	2.48	0.43
28:BF:67:THR:O	28:BF:83:PRO:HA	2.18	0.43
23:DB:1010:A:H5'	38:DQ:61:ILE:CG2	2.48	0.43
52:DI:73:PRO:HA	52:DI:74:PRO:HD3	1.92	0.43
11:AL:26:CYS:HB2	11:AL:29:LYS:HD3	2.01	0.43
1:AA:236:A:H2'	1:AA:237:G:C8	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BP:104:GLY:O	37:BP:105:LYS:HB3	2.18	0.43
30:BH:72:ILE:HD11	30:BH:75:LEU:HD12	1.99	0.43
23:BB:1829:A:H3'	23:BB:1830:C:H6	1.83	0.43
4:AE:105:ILE:O	4:AE:123:LEU:HA	2.18	0.43
23:BB:1341:G:C2'	23:BB:1397:U:O2'	2.66	0.43
39:DR:92:TRP:CE3	39:DR:93:PHE:N	2.87	0.43
1:CA:695:A:H2'	1:CA:696:A:C8	2.53	0.43
23:BB:2293:G:H2'	23:BB:2294:G:O4'	2.18	0.43
1:CA:908:A:O2'	1:CA:909:A:H5'	2.18	0.43
28:BF:14:LYS:HG3	28:BF:15:LEU:N	2.32	0.43
13:AN:27:LYS:C	13:AN:27:LYS:HD2	2.38	0.43
5:CF:19:PRO:HG2	5:CF:20:GLY:H	1.83	0.43
25:BC:12:ARG:CZ	25:BC:18:VAL:HG11	2.48	0.43
41:BT:36:LYS:O	41:BT:81:LYS:HD2	2.17	0.43
23:DB:1509:A:C4'	23:DB:1510:G:H5'	2.48	0.43
23:BB:1683:U:O2'	23:BB:1684:G:H5'	2.18	0.43
23:BB:1563:U:O2'	23:BB:1564:C:H5'	2.18	0.43
23:BB:850:U:H2'	23:BB:851:C:H6	1.82	0.43
23:BB:877:A:H3'	23:BB:899:A:H61	1.82	0.43
19:AT:50:PHE:HE2	19:AT:75:LYS:HA	1.83	0.43
23:DB:268:C:O2	23:DB:268:C:H2'	2.17	0.43
22:BA:32:U:H4'	22:BA:52:A:N6	2.33	0.43
23:DB:557:C:O3'	31:DJ:113:PRO:HB2	2.18	0.43
3:AD:169:TRP:HB3	3:AD:183:ARG:HH21	1.84	0.43
23:DB:1561:C:H2'	23:DB:1562:U:H6	1.81	0.43
23:BB:1317:G:H2'	23:BB:1318:U:O4'	2.18	0.43
23:DB:1221:C:H2'	23:DB:1222:U:C6	2.53	0.43
10:AK:15:VAL:HG21	10:AK:41:LEU:CD1	2.49	0.43
1:AA:453:G:C6	1:AA:454:G:C6	3.06	0.43
1:AA:1437:A:O2'	1:AA:1438:G:H5'	2.18	0.43
1:CA:488:C:H2'	1:CA:489:C:C6	2.52	0.43
23:BB:409:G:O2'	23:BB:410:G:H5'	2.18	0.43
34:DM:9:PHE:CE1	34:DM:11:LYS:HB2	2.54	0.43
31:DJ:24:THR:O	31:DJ:28:LEU:HG	2.19	0.43
1:CA:1092:A:H5''	6:CG:3:ARG:NH1	2.33	0.43
23:BB:562:U:C4	23:BB:2036:C:O4'	2.71	0.43
25:DC:42:ARG:NE	25:DC:42:ARG:CA	2.81	0.43
39:DR:58:VAL:O	39:DR:59:ILE:HB	2.17	0.43
23:BB:1820:U:O2	25:BC:200:MET:HB2	2.17	0.43
23:DB:2457:U:C2'	23:DB:2458:G:H5'	2.48	0.43
35:DN:126:ALA:C	35:DN:127:GLU:HG2	2.39	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1236:A:H4'	1:CA:1304:G:H4'	2.01	0.43
3:AD:6:PRO:HG3	3:AD:9:LYS:HD3	1.99	0.43
29:BG:148:ARG:CZ	29:BG:152:ARG:HB2	2.48	0.43
1:CA:1051:C:H2'	1:CA:1052:U:C6	2.54	0.43
1:CA:1460:C:O2'	1:CA:1461:G:H5'	2.19	0.43
30:BH:124:THR:HG22	30:BH:125:THR:H	1.82	0.43
23:DB:2526:G:C2	51:D4:2:LYS:HE3	2.53	0.43
23:BB:2728:U:H2'	23:BB:2729:G:H8	1.83	0.43
23:BB:2866:U:O3'	23:BB:2867:G:H4'	2.18	0.43
37:BP:84:SER:O	37:BP:86:LYS:N	2.50	0.43
23:DB:2259:U:N3	23:DB:2260:C:C5	2.86	0.43
23:BB:1812:U:H2'	23:BB:1813:G:C8	2.53	0.43
26:DD:82:PHE:HB3	26:DD:83:ARG:H	1.42	0.43
31:BJ:90:GLU:OE1	31:BJ:94:ALA:HB2	2.17	0.43
43:BW:47:GLY:N	43:BW:67:LYS:HZ3	2.15	0.43
18:AS:41:PRO:HG2	18:AS:42:ASN:H	1.83	0.43
27:BE:127:GLU:OE1	27:BE:130:LYS:HG3	2.19	0.43
46:BZ:64:PHE:C	46:BZ:67:PRO:HD2	2.39	0.43
34:BM:67:VAL:HG13	34:BM:67:VAL:O	2.18	0.43
34:BM:98:PRO:HG2	34:BM:99:GLY:H	1.83	0.43
24:BV:82:TYR:HD1	34:BM:36:VAL:HB	1.83	0.43
22:DA:114:C:H2'	22:DA:115:A:C8	2.53	0.43
50:D3:49:VAL:C	50:D3:51:LYS:H	2.22	0.43
51:B4:31:PRO:O	51:B4:32:LYS:C	2.56	0.43
23:BB:975:A:N6	23:BB:989:G:O2'	2.52	0.43
23:BB:1163:G:N2	39:BR:91:GLN:HG3	2.31	0.43
38:DQ:73:ILE:HG13	38:DQ:74:SER:N	2.22	0.43
31:BJ:41:LYS:CD	31:BJ:44:TYR:HB2	2.45	0.43
3:CD:179:GLY:O	3:CD:180:THR:HB	2.18	0.43
26:DD:181:ASP:CG	26:DD:184:ARG:HB3	2.39	0.43
18:AS:7:GLY:O	18:AS:9:PHE:N	2.51	0.43
23:BB:135:U:C2'	23:BB:136:G:C8	2.92	0.43
32:BK:80:ASP:CG	37:BP:71:ARG:HG2	2.39	0.43
12:CM:56:ARG:HG3	12:CM:56:ARG:NH1	2.30	0.43
30:BH:114:GLU:HB3	30:BH:134:VAL:HA	1.99	0.43
30:BH:66:ASN:C	30:BH:68:ARG:H	2.22	0.43
40:DS:29:VAL:HG21	40:DS:69:LEU:C	2.38	0.43
33:DL:61:LEU:HB3	33:DL:62:PRO:HD3	1.99	0.43
23:DB:2733:A:C8	23:DB:2733:A:C3'	3.02	0.43
1:CA:374:A:H5''	1:CA:452:A:N1	2.33	0.43
23:DB:2281:A:N6	43:DW:3:LYS:HE3	2.32	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DX:19:LEU:C	44:DX:21:LEU:H	2.22	0.43
23:BB:2564:A:OP1	23:BB:2648:G:H4'	2.18	0.43
25:DC:51:ARG:O	25:DC:52:HIS:C	2.57	0.43
23:BB:784:G:H5''	25:BC:225:ASN:ND2	2.33	0.43
11:AL:38:THR:CG2	11:AL:48:LEU:HD12	2.48	0.43
32:DK:70:ARG:HG3	32:DK:70:ARG:O	2.18	0.43
39:DR:38:VAL:HA	39:DR:61:ALA:HB3	1.99	0.43
8:CI:97:LEU:O	8:CI:102:PHE:HB2	2.17	0.43
23:BB:725:G:H2'	23:BB:726:G:C1'	2.48	0.43
25:BC:74:PRO:HB2	25:BC:96:LYS:CG	2.36	0.43
1:CA:1301:U:HO2'	1:CA:1302:C:P	2.36	0.43
39:DR:20:VAL:HG12	39:DR:97:LYS:HA	1.99	0.43
23:DB:2310:C:H2'	23:DB:2311:A:H5'	1.99	0.43
23:BB:2014:A:OP1	40:BS:95:ARG:NE	2.39	0.43
37:BP:22:GLY:HA3	37:BP:91:VAL:HG13	2.00	0.43
3:AD:194:ILE:HD11	3:AD:199:ILE:HD11	2.00	0.43
1:AA:237:G:O2'	1:AA:238:A:H5'	2.18	0.43
47:B0:51:ARG:NH1	47:B0:56:LYS:O	2.51	0.43
31:DJ:120:ARG:HB3	31:DJ:121:LYS:CE	2.48	0.43
1:AA:90:C:H2'	1:AA:91:U:H6	1.83	0.43
23:DB:947:A:H2'	23:DB:948:C:H6	1.76	0.43
1:AA:429:U:H4'	1:AA:430:A:O5'	2.16	0.43
2:AC:21:TRP:CD1	2:AC:58:ARG:HD2	2.53	0.43
25:DC:21:PRO:CD	25:DC:202:ARG:NH1	2.81	0.43
25:BC:78:GLU:HB2	25:BC:92:LEU:HB3	1.99	0.43
1:AA:177:G:N3	1:AA:177:G:O4'	2.51	0.43
38:BQ:26:ALA:C	38:BQ:28:SER:H	2.22	0.43
1:CA:1187:G:OP1	8:CI:114:LYS:HE2	2.17	0.43
23:DB:2530:A:H5'	29:DG:176:LYS:O	2.18	0.43
27:DE:130:LYS:HZ2	27:DE:130:LYS:HB2	1.80	0.43
30:BH:60:GLU:OE1	30:BH:61:VAL:HG23	2.18	0.43
28:DF:7:TYR:OH	28:DF:29:ARG:HG2	2.18	0.43
3:AD:51:GLY:O	3:AD:55:ARG:HB2	2.18	0.43
4:AE:95:MET:CE	4:AE:114:LEU:HD21	2.48	0.43
23:DB:1180:U:O2'	23:DB:1181:U:H5'	2.18	0.43
39:BR:17:GLY:C	39:BR:18:GLN:HG2	2.39	0.43
23:BB:2278:A:H62	43:BW:10:ARG:HG2	1.82	0.43
2:CC:8:GLY:HA2	2:CC:11:LEU:HG	1.99	0.43
23:BB:2355:G:H4'	43:BW:20:LEU:CD2	2.45	0.43
1:AA:729:A:H2'	1:AA:730:G:H8	1.83	0.43
23:BB:719:C:O2'	23:BB:720:U:H5'	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:27:LEU:CD2	27:BE:100:MET:HG2	2.48	0.43
23:DB:1535:A:H5'	23:DB:1536:C:C5	2.52	0.43
23:BB:2289:G:O2'	23:BB:2290:G:H5'	2.18	0.43
23:BB:2479:U:H6	23:BB:2479:U:O5'	2.01	0.43
1:AA:57:G:N2	1:AA:388:G:C6	2.86	0.43
23:BB:711:G:H2'	23:BB:712:G:O4'	2.17	0.43
22:DA:7:G:H4'	36:DO:29:HIS:CD2	2.53	0.43
23:DB:935:C:O2'	23:DB:936:A:H5'	2.18	0.43
5:CF:43:GLY:HA2	5:CF:58:HIS:NE2	2.33	0.43
23:DB:908:C:O2'	23:DB:909:A:H5'	2.18	0.43
1:AA:12:U:H4'	1:AA:526:C:H4'	1.99	0.43
23:DB:1736:U:H2'	23:DB:1737:G:C8	2.52	0.43
23:BB:1680:U:H2'	23:BB:1681:G:O4'	2.18	0.43
52:BI:12:VAL:HG23	52:BI:41:PHE:CE2	2.53	0.43
1:CA:402:G:H2'	1:CA:403:C:C6	2.53	0.43
23:DB:1877:A:O2'	23:DB:1878:G:H5'	2.18	0.43
16:AQ:60:ILE:HD13	16:AQ:60:ILE:H	1.83	0.43
4:CE:155:LYS:H	4:CE:155:LYS:HG3	1.53	0.43
31:DJ:95:ARG:NE	31:DJ:95:ARG:N	2.65	0.43
23:BB:1710:G:H2'	23:BB:1711:A:H8	1.84	0.43
1:CA:797:C:OP1	10:CK:125:LYS:HE2	2.18	0.43
1:AA:113:G:N2	1:AA:353:A:H8	2.16	0.43
23:BB:1290:C:O2'	23:BB:1291:C:H5'	2.19	0.43
23:DB:192:C:O2'	23:DB:802:A:N3	2.51	0.43
26:DD:18:ASP:C	26:DD:20:VAL:N	2.70	0.43
2:AC:166:TRP:HB3	2:AC:167:TYR:H	1.45	0.43
14:CO:74:VAL:HG11	16:CQ:83:LEU:OXT	2.18	0.43
1:CA:847:G:H2'	1:CA:848:C:C6	2.53	0.43
23:BB:255:A:H2'	23:BB:256:A:O4'	2.18	0.43
23:BB:540:C:H2'	23:BB:541:A:H8	1.83	0.43
27:BE:139:LYS:HE2	27:BE:139:LYS:CA	2.48	0.43
23:DB:1236:G:H2'	23:DB:1237:A:OP2	2.18	0.43
29:BG:169:ARG:C	29:BG:171:LYS:N	2.72	0.43
37:DP:13:LYS:NZ	37:DP:15:ASP:HB2	2.33	0.43
1:AA:1113:C:O2'	1:AA:1114:C:H5'	2.17	0.43
14:AO:38:LEU:HB3	14:AO:42:PHE:HE1	1.83	0.43
1:AA:179:A:H2'	1:AA:180:U:C6	2.54	0.43
16:AQ:32:ILE:HG13	16:AQ:33:TYR:N	2.33	0.43
1:CA:1458:G:O2'	1:CA:1459:G:H5'	2.19	0.43
26:BD:103:ASP:HA	26:BD:105:LYS:HE2	1.99	0.43
25:BC:33:LEU:HB3	25:BC:34:GLU:H	1.72	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:14:SER:O	32:BK:52:VAL:HB	2.18	0.43
1:AA:605:U:H2'	1:AA:606:G:C8	2.53	0.43
37:DP:86:LYS:C	37:DP:87:ARG:HG3	2.37	0.43
20:CB:41:ASN:ND2	20:CB:44:LYS:HB2	2.32	0.43
51:D4:10:LEU:HD13	51:D4:25:VAL:HB	2.00	0.43
51:D4:26:ILE:HG23	51:D4:27:CYS:N	2.21	0.43
23:BB:2849:U:C4'	23:BB:2868:A:C2	3.01	0.43
37:BP:25:VAL:O	37:BP:25:VAL:HG12	2.18	0.43
37:BP:59:THR:HG1	37:BP:76:HIS:CE1	2.36	0.43
35:DN:28:LEU:HD23	35:DN:48:VAL:HG11	2.00	0.43
25:DC:68:ARG:CZ	25:DC:127:ASN:HA	2.46	0.43
31:BJ:25:LEU:HB2	31:BJ:26:GLY:H	1.57	0.43
31:BJ:64:VAL:HG11	31:BJ:68:LYS:CD	2.34	0.43
27:BE:161:ALA:O	27:BE:162:ARG:HD2	2.18	0.43
42:DU:81:ARG:HG3	42:DU:92:VAL:HG21	1.99	0.43
33:BL:64:PHE:N	50:B3:24:LYS:HZ2	2.16	0.43
33:BL:82:LEU:HD13	33:BL:83:ALA:H	1.81	0.43
34:BM:64:TRP:CE3	34:BM:102:LEU:HD22	2.54	0.43
23:DB:138:U:O3'	23:DB:139:U:H2'	2.19	0.43
23:DB:136:G:N1	41:DT:3:ARG:CZ	2.81	0.43
1:CA:1320:C:N4	18:CS:36:ARG:HD2	2.30	0.43
35:BN:24:MET:O	35:BN:28:LEU:HD12	2.18	0.43
35:BN:8:ARG:HB3	35:BN:43:GLU:OE1	2.19	0.43
34:DM:73:ILE:HG13	34:DM:92:TRP:HB2	2.00	0.43
38:BQ:94:LEU:CB	39:BR:13:ARG:HG2	2.49	0.43
39:BR:42:ALA:C	39:BR:44:GLY:N	2.72	0.43
23:BB:2336:A:HO2'	23:BB:2337:G:P	2.41	0.43
27:BE:141:MET:CG	27:BE:143:LEU:HB2	2.48	0.43
27:BE:149:ILE:CD1	27:BE:186:VAL:HG13	2.48	0.43
26:DD:50:VAL:CG1	26:DD:75:ALA:HB3	2.46	0.43
26:DD:77:ARG:CB	26:DD:77:ARG:HH11	2.30	0.43
23:DB:2304:G:H22	23:DB:2312:U:H3	1.66	0.43
26:BD:140:HIS:HB3	26:BD:141:ARG:H	1.62	0.43
26:BD:164:GLN:HG2	26:BD:165:MET:H	1.83	0.43
13:CN:80:ARG:HH11	13:CN:80:ARG:HG2	1.84	0.43
23:DB:2281:A:H62	43:DW:3:LYS:HD2	1.83	0.43
23:BB:2733:A:C3'	23:BB:2733:A:C8	3.02	0.43
52:BI:77:VAL:HG23	52:BI:78:LEU:N	2.33	0.43
45:DY:26:LEU:C	45:DY:28:LEU:N	2.71	0.43
26:DD:191:GLY:O	26:DD:192:ALA:HB3	2.17	0.43
23:DB:2727:A:O2'	32:DK:70:ARG:NH2	2.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:15:ARG:CA	45:BY:15:ARG:HE	2.31	0.43
39:DR:1:MET:N	39:DR:47:VAL:HB	2.33	0.43
1:CA:1253:G:N1	1:CA:1285:A:N6	2.66	0.43
2:AC:147:GLY:HA3	2:AC:171:ARG:H	1.84	0.43
14:CO:28:VAL:HB	14:CO:80:LEU:HD11	1.99	0.43
29:BG:49:LEU:O	29:BG:50:THR:HG23	2.19	0.43
3:CD:33:ILE:O	3:CD:34:GLU:C	2.57	0.43
11:CL:106:VAL:CG1	11:CL:109:ARG:HG3	2.48	0.43
1:AA:932:C:H5'	6:AG:3:ARG:NH2	2.34	0.43
23:BB:1081:U:H4'	52:BI:123:ALA:HB1	2.01	0.43
23:BB:1025:G:H1'	23:BB:1135:C:O5'	2.18	0.43
23:DB:743:A:C2'	23:DB:744:U:H5'	2.47	0.43
36:BO:84:GLU:O	36:BO:87:ILE:HG12	2.18	0.43
23:BB:1178:C:C2	23:BB:1179:G:N7	2.87	0.43
23:BB:1183:U:C2	23:BB:1184:U:C5	3.06	0.43
48:D1:9:LYS:CG	48:D1:24:LYS:HG2	2.49	0.43
48:D1:49:LYS:HD2	48:D1:49:LYS:O	2.17	0.43
9:AJ:41:PRO:O	9:AJ:71:LEU:HD13	2.18	0.43
9:AJ:39:PRO:CB	9:AJ:74:VAL:HG22	2.48	0.43
8:CI:29:ILE:CA	8:CI:64:ILE:HB	2.46	0.43
23:DB:51:G:H1'	23:DB:118:A:H61	1.82	0.43
23:DB:1826:G:OP1	25:DC:222:THR:HG22	2.18	0.43
48:B1:36:LYS:HB3	48:B1:37:LYS:H	1.67	0.43
28:BF:103:ILE:HG13	28:BF:104:THR:H	1.83	0.43
41:BT:68:LYS:HB2	41:BT:68:LYS:HE2	1.82	0.43
23:BB:507:A:OP1	23:BB:508:A:N7	2.52	0.43
20:AB:61:SER:HB3	20:AB:223:GLY:O	2.17	0.43
2:AC:113:LYS:HA	2:AC:113:LYS:HE2	2.00	0.43
6:CG:11:ILE:HG22	6:CG:12:LEU:N	2.33	0.43
8:AI:85:ALA:O	8:AI:88:GLU:HB2	2.18	0.43
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.18	0.43
2:CC:11:LEU:HD22	2:CC:17:TRP:CD1	2.54	0.43
1:AA:195:A:H1'	1:AA:222:C:O2'	2.18	0.43
5:CF:59:TYR:N	5:CF:59:TYR:CD1	2.86	0.43
23:BB:709:U:H2'	23:BB:710:U:H6	1.84	0.43
1:CA:94:G:H4'	1:CA:95:C:H5''	2.01	0.43
23:DB:2361:G:C5'	50:D3:27:ASN:HB2	2.48	0.43
1:CA:1521:C:H2'	1:CA:1522:U:C6	2.53	0.43
1:CA:25:C:H2'	1:CA:26:A:C8	2.54	0.43
23:DB:78:U:H2'	23:DB:79:C:H6	1.82	0.43
11:AL:41:PRO:CB	11:AL:88:ASP:HB3	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DQ:113:LYS:C	38:DQ:115:ALA:H	2.21	0.43
8:AI:10:ARG:HA	8:AI:77:ALA:CB	2.49	0.43
23:BB:1463:C:H2'	23:BB:1464:G:H8	1.82	0.43
22:BA:91:C:H2'	22:BA:92:C:H6	1.83	0.43
1:CA:425:G:O2'	1:CA:426:U:H5'	2.19	0.43
1:AA:130:A:C8	16:AQ:64:ARG:HG3	2.53	0.43
1:AA:392:C:H2'	1:AA:393:A:C8	2.54	0.43
1:AA:462:G:H3'	1:AA:463:U:C5'	2.48	0.43
1:CA:1248:A:H2'	1:CA:1249:C:H6	1.83	0.43
1:CA:521:G:O2'	1:CA:522:C:H5'	2.17	0.43
23:DB:2349:G:OP2	50:D3:41:ARG:HD3	2.17	0.43
35:BN:57:THR:HG21	35:BN:61:ALA:HB3	2.01	0.43
35:BN:122:ALA:CB	47:B0:49:ARG:HH12	2.32	0.43
1:AA:323:U:H4'	19:AT:16:ALA:HB3	2.01	0.43
1:CA:512:U:O2'	1:CA:513:C:H5'	2.19	0.43
1:AA:340:U:H2'	1:AA:341:C:C6	2.54	0.43
29:BG:57:TYR:CD1	29:BG:57:TYR:N	2.86	0.43
23:DB:215:G:H4'	23:DB:216:A:OP1	2.17	0.43
23:DB:2660:A:H2'	23:DB:2661:G:O4'	2.17	0.43
23:BB:1930:G:C2'	23:BB:1931:U:OP2	2.67	0.43
7:AH:10:LEU:HA	7:AH:74:ILE:HD11	2.00	0.43
11:AL:121:PRO:C	11:AL:123:ALA:H	2.21	0.43
18:CS:19:GLU:O	18:CS:19:GLU:HG3	2.18	0.43
19:CT:15:LYS:HA	19:CT:15:LYS:HD3	1.74	0.43
14:AO:46:LYS:HB2	14:AO:46:LYS:HE3	1.84	0.43
23:BB:211:C:O2'	23:BB:212:G:H5'	2.18	0.43
3:CD:61:ARG:HG3	3:CD:66:VAL:O	2.19	0.43
23:BB:2457:U:O2'	23:BB:2458:G:H5'	2.18	0.43
23:DB:588:U:H5'	33:DL:29:LYS:NZ	2.34	0.43
20:AB:187:ASP:OD1	20:AB:188:THR:N	2.51	0.43
23:BB:440:C:H2'	23:BB:441:U:H6	1.82	0.43
37:BP:47:ILE:CA	37:BP:63:ILE:HG23	2.48	0.43
43:DW:56:HIS:CD2	43:DW:58:LEU:H	2.36	0.43
25:BC:88:ALA:CB	25:BC:156:SER:HB3	2.42	0.43
25:BC:191:LEU:HD22	25:BC:191:LEU:O	2.17	0.43
31:BJ:58:ASN:C	31:BJ:60:ASP:H	2.21	0.43
23:DB:2617:U:H2'	23:DB:2618:G:C5'	2.47	0.43
18:AS:43:MET:HE1	18:AS:48:ILE:HG12	2.00	0.43
33:BL:118:THR:N	33:BL:119:PRO:HD3	2.33	0.43
46:BZ:49:ARG:O	46:BZ:50:ASP:HB3	2.18	0.43
24:BV:26:PHE:HB2	24:BV:27:PRO:HD2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:255:G:H2'	1:AA:256:U:C6	2.53	0.43
23:DB:773:U:O2'	25:DC:48:ILE:HG23	2.18	0.43
33:BL:39:LYS:HB3	33:BL:46:VAL:HG13	1.99	0.43
40:BS:43:ALA:O	40:BS:47:VAL:HG13	2.18	0.43
31:DJ:35:ARG:O	31:DJ:52:ASP:HB2	2.18	0.43
18:CS:29:PRO:HB3	18:CS:47:THR:HG22	2.01	0.43
23:BB:1132:U:C6	31:BJ:85:LYS:HE2	2.53	0.43
21:CU:17:ARG:N	21:CU:17:ARG:HD2	2.12	0.43
25:BC:110:LYS:CE	25:BC:111:ALA:H	2.27	0.43
27:BE:109:LEU:HA	27:BE:117:ARG:HB3	2.00	0.43
27:BE:121:VAL:HG12	27:BE:122:GLU:H	1.80	0.43
27:BE:138:LEU:HD22	27:BE:144:GLU:HA	1.99	0.43
3:CD:171:GLU:OE2	3:CD:182:LYS:HE3	2.19	0.43
3:CD:64:TYR:CD2	3:CD:93:LEU:HB2	2.54	0.43
21:AU:16:ARG:NH2	21:AU:24:LYS:HE2	2.33	0.43
33:DL:126:ARG:HH11	33:DL:126:ARG:HG2	1.83	0.43
23:BB:142:A:OP2	23:BB:142:A:H8	2.01	0.43
41:BT:15:HIS:HB2	41:BT:31:VAL:HB	1.99	0.43
30:BH:62:LEU:HD21	30:BH:137:GLU:HG2	2.01	0.43
30:BH:58:LEU:O	30:BH:62:LEU:HD12	2.19	0.43
50:D3:24:LYS:C	50:D3:26:ALA:H	2.22	0.43
33:DL:54:GLN:CB	33:DL:57:LEU:HD23	2.48	0.43
33:DL:63:LYS:HE3	50:D3:29:ARG:HG3	2.00	0.43
51:D4:18:LYS:O	51:D4:19:ARG:HG3	2.17	0.43
1:AA:1213:A:C6	1:AA:1215:G:H1'	2.54	0.43
24:DV:10:LYS:HD2	24:DV:41:GLU:OE2	2.18	0.43
38:DQ:87:VAL:HB	39:DR:54:VAL:CG2	2.40	0.43
4:CE:136:VAL:HG23	4:CE:137:ARG:H	1.83	0.43
20:AB:38:HIS:O	20:AB:39:ILE:HD13	2.17	0.43
23:BB:466:A:H2'	23:BB:467:G:H5'	2.01	0.43
22:DA:53:A:C2'	22:DA:54:G:H5'	2.49	0.43
37:BP:92:ARG:CZ	37:BP:110:LYS:HE2	2.46	0.43
32:DK:19:VAL:HB	32:DK:41:ILE:CG1	2.49	0.43
1:CA:239:U:H5''	1:CA:239:U:H6	1.80	0.43
48:D1:27:ARG:NE	48:D1:27:ARG:H	2.16	0.43
2:CC:137:VAL:HG13	2:CC:148:ILE:HG23	2.00	0.43
8:CI:29:ILE:O	8:CI:32:ARG:HB2	2.18	0.43
26:BD:62:LYS:HE3	26:BD:63:PRO:HD2	2.01	0.43
43:BW:15:SER:O	43:BW:16:GLU:HB3	2.17	0.43
23:DB:2072:C:O2'	23:DB:2073:C:H5'	2.19	0.43
23:DB:1774:C:O2	23:DB:1774:C:C2'	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:71:ASP:OD2	25:BC:118:GLY:HA2	2.19	0.43
23:DB:599:A:H2'	23:DB:600:G:H8	1.83	0.43
23:DB:585:G:H2'	23:DB:1251:C:N4	2.33	0.43
19:CT:73:ARG:HG3	19:CT:74:HIS:H	1.83	0.43
23:BB:619:G:H2'	23:BB:620:G:H5''	2.00	0.43
35:DN:103:ARG:NH1	35:DN:106:ASP:OD2	2.51	0.43
23:DB:1309:G:C5'	49:D2:8:SER:H	2.30	0.43
17:CR:51:GLN:NE2	17:CR:54:LEU:HB2	2.33	0.43
23:DB:1616:A:H4'	23:DB:1617:C:OP2	2.19	0.43
23:BB:2303:G:H2'	23:BB:2304:G:H5'	2.00	0.43
40:DS:58:ALA:HA	40:DS:62:ASP:HB3	2.00	0.43
23:BB:2093:G:H2'	23:BB:2094:A:H8	1.84	0.43
25:BC:257:ARG:HA	25:BC:257:ARG:CZ	2.47	0.43
39:BR:33:VAL:HB	39:BR:35:PHE:HE2	1.82	0.43
22:DA:13:G:H1'	22:DA:69:G:N2	2.33	0.43
1:CA:206:C:H2'	1:CA:207:C:C6	2.53	0.43
20:CB:86:CYS:C	20:CB:88:GLN:H	2.21	0.43
27:BE:25:GLU:O	27:BE:26:ALA:C	2.56	0.43
9:AJ:80:THR:HG22	9:AJ:81:GLU:N	2.29	0.43
1:CA:1280:A:O4'	9:CJ:43:PRO:HG3	2.18	0.43
23:DB:303:G:C6	23:DB:315:G:C6	3.06	0.43
23:BB:958:U:H5'	34:BM:18:ARG:HH12	1.83	0.43
1:CA:1348:U:O2	1:CA:1348:U:H2'	2.18	0.43
52:BI:85:ILE:HD12	52:BI:87:SER:O	2.19	0.43
34:BM:80:VAL:HG12	34:BM:81:ARG:N	2.33	0.43
50:D3:25:HIS:CE1	50:D3:46:LYS:HB2	2.53	0.43
23:BB:904:G:H2'	23:BB:905:A:C8	2.52	0.43
1:CA:1234:C:H2'	1:CA:1235:U:H6	1.83	0.43
1:AA:635:A:H2'	1:AA:636:U:C6	2.53	0.43
24:DV:57:TYR:CE2	24:DV:77:VAL:HG21	2.53	0.43
23:DB:1948:G:C6	23:DB:1959:G:C6	3.06	0.43
23:DB:79:C:O2'	23:DB:346:A:C8	2.68	0.43
1:AA:186:C:H2'	1:AA:187:G:O4'	2.18	0.43
31:DJ:95:ARG:HH11	31:DJ:95:ARG:HG3	1.83	0.43
1:CA:113:G:N2	1:CA:353:A:H8	2.16	0.43
15:AP:25:ARG:HD3	15:AP:25:ARG:H	1.83	0.43
1:AA:598:U:H2'	1:AA:599:C:H6	1.82	0.43
23:BB:2686:G:H2'	23:BB:2687:U:O4'	2.18	0.43
1:CA:128:G:O2'	1:CA:129:A:H5'	2.18	0.43
23:BB:234:U:H2'	23:BB:235:U:H6	1.84	0.43
23:DB:2096:C:H2'	23:DB:2097:A:C8	2.53	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:184:C:H2'	23:DB:185:G:C8	2.51	0.43
23:DB:2691:C:H2'	23:DB:2692:G:H8	1.84	0.43
3:CD:123:MET:HB2	3:CD:127:ARG:O	2.19	0.43
1:CA:847:G:H2'	1:CA:848:C:H6	1.82	0.43
1:CA:1210:C:H4'	1:CA:1214:C:C4	2.53	0.43
52:DI:7:TYR:CE1	52:DI:57:VAL:HG11	2.53	0.43
23:DB:1038:G:H2'	23:DB:1039:A:C8	2.52	0.43
1:CA:916:U:H2'	1:CA:917:G:C8	2.52	0.43
50:B3:21:PHE:CD1	50:B3:21:PHE:N	2.85	0.43
1:AA:109:A:C6	1:AA:326:G:C6	3.06	0.43
24:DV:60:VAL:HG12	24:DV:73:LYS:HG3	2.00	0.43
23:DB:511:U:H4'	23:DB:1235:G:H4'	2.00	0.43
23:BB:822:G:H2'	23:BB:823:C:C6	2.53	0.43
30:DH:46:PHE:O	30:DH:49:ALA:HB3	2.19	0.43
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.54	0.43
1:AA:224:U:H2'	1:AA:225:C:H6	1.82	0.43
23:BB:1201:U:H2'	23:BB:1202:G:H8	1.84	0.43
35:DN:18:GLN:HB2	35:DN:18:GLN:HE21	1.55	0.43
29:DG:18:ILE:HG13	29:DG:18:ILE:O	2.18	0.43
45:DY:57:GLU:OE1	45:DY:57:GLU:O	2.36	0.43
23:DB:2382:G:O2'	50:D3:38:LYS:HE2	2.18	0.43
1:AA:1454:G:H2'	1:AA:1455:G:O4'	2.19	0.43
51:D4:2:LYS:HD3	51:D4:2:LYS:H	1.84	0.43
23:BB:2728:U:H2'	23:BB:2729:G:C8	2.54	0.43
26:BD:24:VAL:O	26:BD:24:VAL:HG13	2.18	0.43
37:BP:51:ASN:HA	37:BP:61:ARG:N	2.29	0.43
23:DB:2260:C:O2'	23:DB:2261:C:H5'	2.18	0.43
25:BC:194:VAL:CG1	25:BC:195:GLY:H	2.17	0.43
23:BB:161:A:H62	23:BB:165:A:N6	2.10	0.43
35:DN:100:CYS:SG	47:D0:43:THR:HG21	2.59	0.43
43:BW:45:HIS:HB2	43:BW:67:LYS:NZ	2.33	0.43
38:DQ:52:ARG:HG2	38:DQ:53:LYS:HE2	1.99	0.43
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.52	0.43
30:BH:11:ASN:C	30:BH:13:GLY:H	2.22	0.43
23:BB:636:G:OP2	33:BL:128:THR:HG22	2.18	0.43
34:BM:71:LYS:HD3	34:BM:92:TRP:N	2.33	0.43
24:BV:42:LEU:HD23	24:BV:42:LEU:N	2.33	0.43
23:BB:2574:G:HO2'	26:BD:151:THR:HG21	1.84	0.43
36:DO:35:ILE:CG1	36:DO:106:LEU:HD12	2.47	0.43
23:BB:1155:A:H61	45:BY:10:ARG:CZ	2.31	0.43
23:DB:1341:G:H5'	41:DT:61:LEU:CD2	2.44	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2771:C:O2'	26:BD:173:GLN:NE2	2.52	0.43
8:AI:43:ALA:HA	8:AI:44:ARG:NH1	2.34	0.43
8:AI:56:MET:CA	8:AI:59:LYS:HZ2	2.30	0.43
23:DB:852:U:H2'	23:DB:853:C:C6	2.53	0.43
25:BC:25:LYS:HA	25:BC:25:LYS:HD2	1.83	0.43
34:DM:5:LYS:CE	34:DM:6:ARG:H	2.23	0.43
31:BJ:35:ARG:NH2	31:BJ:40:HIS:H	2.15	0.43
31:BJ:43:GLU:HG3	31:BJ:44:TYR:CD2	2.53	0.43
38:BQ:92:LYS:O	38:BQ:94:LEU:HD22	2.18	0.43
12:AM:33:LEU:HB3	12:AM:38:ILE:O	2.18	0.43
27:BE:149:ILE:O	27:BE:187:VAL:HG22	2.18	0.43
27:BE:150:THR:HB	27:BE:171:ASP:OD1	2.18	0.43
1:CA:1014:A:H5''	18:CS:13:HIS:HB2	2.00	0.43
33:DL:74:THR:O	33:DL:75:ALA:C	2.57	0.43
26:BD:52:THR:HG22	26:BD:76:GLY:H	1.84	0.43
25:DC:45:ASN:ND2	25:DC:50:THR:OG1	2.51	0.43
38:DQ:82:LEU:O	38:DQ:88:GLU:HG3	2.19	0.43
4:CE:87:VAL:CG1	4:CE:88:HIS:H	2.26	0.43
8:CI:8:THR:OG1	8:CI:84:ARG:HG3	2.18	0.43
21:AU:36:PHE:C	21:AU:40:PRO:HD3	2.38	0.43
5:AF:32:ALA:CB	5:AF:70:VAL:HG11	2.49	0.43
28:BF:45:ASP:OD2	28:BF:83:PRO:HG2	2.18	0.43
1:AA:1238:A:N3	1:AA:1241:G:H1'	2.34	0.43
38:DQ:60:TRP:CD2	38:DQ:93:ILE:HA	2.54	0.43
22:DA:53:A:H2'	22:DA:54:G:O4'	2.19	0.43
23:DB:2581:G:N3	23:DB:2581:G:H2'	2.34	0.43
28:DF:98:PHE:CA	28:DF:101:ARG:HE	2.23	0.43
28:DF:133:GLU:HB3	28:DF:134:GLN:H	1.50	0.43
1:AA:77:A:H2'	1:AA:78:A:N7	2.34	0.43
23:DB:948:C:O2'	23:DB:949:G:H5'	2.19	0.43
1:AA:1367:C:O2'	1:AA:1368:A:H5'	2.16	0.43
1:AA:65:A:N3	1:AA:65:A:C2'	2.76	0.43
8:CI:123:ARG:HD3	8:CI:124:PRO:HD2	1.99	0.43
23:DB:1547:C:H2'	23:DB:1548:A:C8	2.53	0.43
23:DB:1408:G:H2'	23:DB:1409:U:C6	2.54	0.43
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.54	0.43
1:AA:1343:G:H2'	1:AA:1344:C:H6	1.83	0.43
29:DG:39:ALA:CA	29:DG:54:ARG:HB2	2.48	0.43
23:BB:2210:U:N3	23:BB:2212:A:N7	2.65	0.43
46:DZ:12:ILE:HA	46:DZ:26:SER:HA	2.01	0.43
20:CB:53:LEU:HD11	20:CB:216:VAL:HG12	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1373:A:H5''	23:DB:2213:U:O4	2.18	0.43
1:CA:409:U:OP2	3:CD:21:LYS:HE2	2.19	0.43
29:DG:88:LEU:HG	29:DG:161:VAL:HB	2.01	0.43
23:BB:954:G:OP1	34:BM:17:ASN:HB2	2.19	0.43
23:BB:1117:C:C2	23:BB:1118:C:C5	3.07	0.43
23:BB:2184:A:H2'	23:BB:2185:U:C6	2.53	0.43
23:DB:80:G:C6	23:DB:107:G:C6	3.07	0.43
23:BB:1877:A:H2'	23:BB:1878:G:C8	2.53	0.43
23:BB:1948:G:C6	23:BB:1959:G:C6	3.06	0.43
1:CA:302:G:H2'	1:CA:303:A:H8	1.83	0.43
23:BB:315:G:H2'	23:BB:316:C:O4'	2.19	0.43
3:CD:44:LYS:HZ2	3:CD:45:PRO:C	2.21	0.43
28:BF:3:LEU:HA	28:BF:6:TYR:CG	2.54	0.43
50:D3:41:ARG:HH11	50:D3:41:ARG:HG2	1.84	0.43
2:AC:139:ASN:HD22	2:AC:139:ASN:N	2.16	0.43
1:CA:625:U:H4'	15:CP:16:PHE:CZ	2.54	0.43
23:DB:1987:A:H2'	23:DB:1988:G:H8	1.82	0.43
23:DB:2135:A:C6	23:DB:2136:G:N7	2.87	0.43
8:AI:66:VAL:CG2	8:AI:74:GLN:HG3	2.48	0.43
1:CA:177:G:N3	1:CA:177:G:O4'	2.51	0.43
1:AA:695:A:H2'	1:AA:696:A:C8	2.54	0.43
23:DB:1092:C:O2'	23:DB:1093:G:H5'	2.19	0.43
1:CA:1426:G:O2'	1:CA:1427:C:H5'	2.19	0.43
23:BB:1115:G:H2'	23:BB:1116:G:H8	1.83	0.43
3:AD:64:TYR:N	3:AD:64:TYR:CD1	2.87	0.43
1:CA:1455:G:O2'	1:CA:1456:A:H5'	2.18	0.43
45:BY:23:LEU:HD22	45:BY:28:LEU:O	2.18	0.43
52:BI:15:GLY:O	52:BI:16:MET:HB2	2.16	0.43
23:DB:2663:G:H2'	23:DB:2664:G:C8	2.54	0.43
1:AA:1140:C:O2'	1:AA:1141:C:H5'	2.18	0.43
26:DD:14:ILE:HG23	26:DD:19:GLY:CA	2.49	0.43
44:DX:39:GLN:O	44:DX:41:HIS:N	2.50	0.43
25:BC:51:ARG:HB2	25:BC:51:ARG:HE	1.61	0.43
25:BC:66:PHE:HB3	25:BC:67:LYS:H	1.61	0.43
25:DC:160:TYR:O	25:DC:176:ARG:HG2	2.19	0.43
31:BJ:58:ASN:O	31:BJ:59:ALA:HB3	2.19	0.43
36:BO:50:ALA:HB1	36:BO:79:ALA:HB1	2.01	0.43
43:BW:76:ARG:HG2	43:BW:77:LYS:H	1.81	0.43
23:BB:298:G:C2	23:BB:339:U:C5	3.06	0.43
30:BH:30:LEU:HD22	30:BH:35:LYS:HE3	2.00	0.43
30:BH:5:LEU:CD1	30:BH:37:VAL:HG11	2.48	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:DE:136:GLN:HA	27:DE:139:LYS:HG2	2.01	0.43
23:BB:872:U:HO2'	34:BM:64:TRP:HE1	1.62	0.43
23:BB:1249:U:H4'	38:BQ:3:VAL:HG13	1.99	0.43
34:DM:14:LYS:HA	34:DM:72:PRO:HG3	2.00	0.43
39:BR:51:VAL:O	39:BR:52:PRO:C	2.57	0.43
20:CB:101:THR:HG22	20:CB:174:GLU:CD	2.39	0.43
12:AM:3:ILE:CA	12:AM:56:ARG:HG2	2.40	0.43
3:CD:106:PHE:HB3	3:CD:154:VAL:HG12	2.01	0.43
23:DB:1199:U:O2'	38:DQ:2:ARG:HB2	2.18	0.43
1:CA:1013:G:H2'	1:CA:1015:G:OP2	2.18	0.43
41:BT:3:ARG:HE	41:BT:8:LEU:HD23	1.83	0.43
41:BT:11:LEU:HD23	41:BT:46:ALA:HB1	2.00	0.43
47:D0:16:ARG:C	47:D0:18:HIS:H	2.21	0.43
12:CM:59:VAL:HG13	12:CM:60:ALA:N	2.33	0.43
35:BN:1:MET:HE3	35:BN:3:HIS:O	2.18	0.43
20:AB:71:THR:HG23	20:AB:93:HIS:C	2.39	0.43
26:BD:1:MET:HG3	26:BD:205:PRO:HG2	2.01	0.43
1:CA:1314:C:O2'	1:CA:1315:U:H5'	2.19	0.43
45:DY:5:LYS:HE2	45:DY:58:GLU:OE2	2.19	0.43
1:AA:1489:G:H2'	1:AA:1490:U:C6	2.54	0.43
1:CA:919:A:O2'	1:CA:920:U:H5'	2.19	0.43
8:CI:6:TYR:CG	8:CI:7:GLY:N	2.86	0.43
21:AU:35:GLU:HB2	21:AU:37:TYR:CZ	2.54	0.43
1:CA:1298:U:H4'	1:CA:1299:A:C2	2.54	0.43
35:BN:35:LYS:N	35:BN:112:TYR:HB3	2.33	0.43
1:AA:967:C:OP1	1:AA:969:A:H8	2.00	0.43
35:DN:80:PHE:O	35:DN:85:PRO:HD3	2.18	0.43
23:BB:2691:C:H2'	23:BB:2692:G:H8	1.83	0.43
36:BO:1:MET:HG2	36:BO:2:ASP:N	2.32	0.43
32:DK:79:PHE:CD1	32:DK:79:PHE:N	2.86	0.43
48:D1:9:LYS:HA	48:D1:24:LYS:HB3	2.00	0.43
36:BO:30:ARG:O	36:BO:31:THR:C	2.57	0.43
13:AN:78:LEU:HB2	13:AN:83:VAL:HG22	1.99	0.43
23:DB:2678:C:O2'	23:DB:2679:A:H5'	2.18	0.43
35:DN:86:ARG:CZ	35:DN:117:ASP:HA	2.49	0.43
23:BB:28:A:O2'	23:BB:29:U:H5'	2.18	0.43
23:BB:1549:A:H2'	23:BB:1550:C:H6	1.84	0.43
1:CA:1279:G:N2	9:CJ:45:ARG:HD2	2.33	0.43
14:CO:31:LEU:HA	14:CO:34:GLN:OE1	2.19	0.43
23:DB:480:A:C4'	42:DU:40:LEU:HD22	2.47	0.43
23:DB:585:G:N7	38:DQ:5:ARG:NH2	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CJ:59:LYS:C	9:CJ:61:ALA:H	2.21	0.43
17:AR:62:ARG:HD2	17:AR:69:TYR:CD2	2.54	0.43
22:DA:14:U:O2'	22:DA:107:G:H1'	2.19	0.43
22:DA:14:U:H3'	22:DA:15:A:C5'	2.48	0.43
23:DB:2199:A:H3'	23:DB:2200:C:H6	1.82	0.43
23:BB:1857:G:H1'	23:BB:1885:A:H62	1.82	0.43
23:BB:1858:A:N6	23:BB:1884:G:O2'	2.51	0.43
23:DB:1858:A:N6	23:DB:1884:G:O2'	2.51	0.43
2:CC:54:ILE:HB	2:CC:67:ILE:CD1	2.49	0.43
23:DB:282:A:H2'	23:DB:283:G:C8	2.54	0.43
7:CH:21:LYS:O	7:CH:62:LEU:HD22	2.19	0.43
28:BF:177:ARG:HH21	28:BF:178:LYS:HA	1.83	0.43
23:BB:188:G:OP1	46:BZ:11:GLU:HG2	2.18	0.43
29:DG:29:ASN:HB3	29:DG:78:VAL:HA	2.00	0.43
23:BB:1746:A:H2'	23:BB:1747:U:C6	2.53	0.43
1:AA:1038:C:H2'	1:AA:1039:G:C8	2.54	0.43
8:AI:94:ARG:CZ	8:AI:94:ARG:HB2	2.49	0.43
23:DB:1877:A:H2'	23:DB:1878:G:C8	2.53	0.43
23:DB:1945:G:C4	23:DB:1946:U:C5	3.07	0.43
23:BB:2100:G:C6	23:BB:2190:G:C6	3.07	0.43
23:BB:1945:G:C4	23:BB:1946:U:C5	3.07	0.43
24:DV:44:HIS:O	24:DV:46:LYS:N	2.51	0.43
23:DB:1707:G:H2'	23:DB:1708:C:C6	2.54	0.43
1:CA:113:G:H21	1:CA:353:A:H8	1.66	0.43
23:BB:1399:C:H2'	23:BB:1400:U:H6	1.84	0.43
23:DB:1559:U:H3'	23:DB:1560:G:C5'	2.47	0.43
23:DB:839:U:H2'	23:DB:840:C:C6	2.53	0.43
23:DB:2601:C:C3'	23:DB:2602:A:H5''	2.47	0.43
28:DF:103:ILE:HD12	28:DF:104:THR:H	1.81	0.43
1:AA:1380:U:O4	6:AG:2:ARG:HG3	2.18	0.43
11:AL:64:SER:OG	11:AL:96:THR:HG23	2.18	0.43
23:DB:1599:U:C2	23:DB:1600:C:C5	3.06	0.43
15:CP:13:LYS:O	15:CP:15:PRO:HD3	2.18	0.43
43:BW:6:GLY:C	43:BW:8:SER:N	2.72	0.43
1:AA:691:G:H1'	1:AA:696:A:H61	1.84	0.43
4:AE:56:PRO:O	4:AE:60:GLN:HG3	2.19	0.43
23:DB:1270:C:H5''	23:DB:1271:G:O5'	2.19	0.43
1:CA:709:U:H2'	1:CA:710:G:H8	1.83	0.43
23:DB:1930:G:C2'	23:DB:1931:U:OP2	2.67	0.43
1:AA:223:A:H2'	1:AA:224:U:C6	2.53	0.43
23:DB:1281:G:H2'	23:DB:1282:U:O4'	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BG:8:VAL:O	29:BG:48:THR:HA	2.18	0.43
6:CG:6:ILE:HG22	6:CG:7:GLY:N	2.34	0.43
23:BB:2660:A:H2'	23:BB:2661:G:O4'	2.18	0.43
1:CA:186:C:H2'	1:CA:187:G:O4'	2.18	0.43
23:BB:2233:U:H2'	23:BB:2234:G:H8	1.83	0.43
23:BB:1306:C:H2'	23:BB:1307:A:H8	1.84	0.43
2:CC:121:SER:O	2:CC:125:ARG:HG3	2.18	0.43
37:DP:111:GLU:O	37:DP:113:LEU:N	2.52	0.43
37:DP:27:VAL:HA	37:DP:86:LYS:HB3	2.01	0.43
23:DB:452:G:N2	23:DB:458:G:H1'	2.33	0.43
26:BD:23:PRO:HA	26:BD:190:LYS:N	2.34	0.43
26:BD:8:LYS:CB	37:BP:5:LYS:HZ1	2.30	0.43
43:DW:33:GLY:HA3	43:DW:66:VAL:HG21	2.01	0.43
25:BC:140:VAL:HG23	25:BC:141:HIS:N	2.31	0.43
25:BC:152:GLN:HB3	25:BC:153:LEU:HD23	2.00	0.43
25:BC:164:VAL:HG12	25:BC:164:VAL:O	2.19	0.43
47:D0:32:THR:HG21	47:D0:41:HIS:CD2	2.53	0.43
26:DD:42:ASN:O	26:DD:43:ASP:CB	2.64	0.43
26:DD:60:VAL:HG23	26:DD:63:PRO:CD	2.48	0.43
35:DN:34:ILE:O	35:DN:112:TYR:HD1	2.01	0.43
25:DC:155:ARG:HG2	25:DC:155:ARG:HH21	1.84	0.43
25:DC:104:LEU:HD13	25:DC:156:SER:HB2	2.01	0.43
25:DC:90:ILE:O	25:DC:91:ALA:HB3	2.19	0.43
31:BJ:57:LEU:HD12	31:BJ:128:ASN:HA	2.01	0.43
1:AA:448:A:H2'	1:AA:449:G:C8	2.53	0.43
23:BB:2272:U:C6	23:BB:2272:U:C3'	3.01	0.43
32:BK:2:ILE:HG23	32:BK:33:ALA:O	2.19	0.43
46:DZ:3:LYS:CE	46:DZ:48:GLN:HB2	2.49	0.43
46:DZ:48:GLN:HB3	46:DZ:51:VAL:HG23	2.01	0.43
1:AA:408:A:OP1	3:AD:109:THR:HG21	2.19	0.43
23:BB:492:A:H2	40:BS:7:HIS:HE1	1.67	0.43
23:BB:502:A:N6	23:BB:505:A:N1	2.66	0.43
8:AI:51:LEU:N	8:AI:51:LEU:HD12	2.34	0.43
28:BF:55:ASP:OD2	28:BF:148:VAL:HG11	2.19	0.43
18:CS:24:SER:HB2	18:CS:27:LYS:HZ1	1.83	0.43
35:BN:29:VAL:HG13	35:BN:83:LEU:CD1	2.48	0.43
47:B0:30:ASP:CG	47:B0:31:LYS:H	2.22	0.43
40:BS:28:LYS:HE3	40:BS:29:VAL:N	2.34	0.43
43:BW:11:ASN:OD1	43:BW:12:GLY:N	2.52	0.43
10:AK:109:ILE:O	10:AK:110:THR:HG23	2.18	0.43
38:DQ:7:VAL:HG13	38:DQ:8:ILE:CD1	2.42	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:173:GLN:HE21	26:DD:208:LYS:HB2	1.83	0.43
26:DD:47:ALA:H	26:DD:80:TRP:HB2	1.83	0.43
23:BB:2511:U:H2'	23:BB:2512:C:O4'	2.19	0.43
13:CN:72:PHE:O	13:CN:73:LEU:HG	2.18	0.43
23:DB:359:G:H2'	23:DB:360:U:H5'	2.00	0.43
26:DD:128:ARG:O	26:DD:129:THR:HB	2.19	0.43
51:D4:18:LYS:O	51:D4:19:ARG:CB	2.67	0.43
27:BE:59:PRO:HD2	27:BE:60:TRP:CE2	2.54	0.43
32:BK:107:LEU:C	32:BK:109:SER:H	2.22	0.43
26:BD:31:ALA:HA	26:BD:51:THR:HG1	1.82	0.43
45:DY:26:LEU:HD21	45:DY:46:MET:HG2	2.00	0.43
23:DB:2728:U:H2'	23:DB:2729:G:C8	2.53	0.43
32:DK:71:ARG:O	32:DK:72:PRO:O	2.36	0.43
14:CO:25:GLU:CD	14:CO:76:ARG:HD3	2.38	0.43
3:AD:84:ASN:OD1	4:AE:101:GLY:HA2	2.18	0.43
2:AC:112:ALA:HB2	2:AC:182:ASP:O	2.19	0.43
23:DB:1062:G:H2'	23:DB:1063:G:H8	1.84	0.43
49:D2:19:ARG:HD3	49:D2:20:ALA:N	2.33	0.43
32:DK:4:GLU:O	32:DK:5:GLN:HB2	2.18	0.43
9:AJ:93:ALA:HB1	9:AJ:96:VAL:CG2	2.49	0.43
5:CF:9:MET:HE1	17:CR:64:LEU:O	2.18	0.43
25:DC:21:PRO:HD2	25:DC:202:ARG:HH12	1.84	0.43
4:AE:109:ALA:O	4:AE:113:VAL:HG13	2.19	0.43
1:AA:812:G:C2'	1:AA:812:G:N3	2.77	0.43
23:BB:2247:A:O2'	23:BB:2248:C:H5'	2.19	0.43
7:AH:95:MET:HB3	7:AH:99:GLY:H	1.84	0.43
28:BF:90:LEU:N	28:BF:90:LEU:HD12	2.34	0.43
25:BC:257:ARG:O	25:BC:261:ARG:HG3	2.18	0.43
18:CS:30:LEU:HB3	18:CS:48:ILE:HG23	2.00	0.43
23:BB:1373:A:H4'	23:BB:2212:A:N3	2.34	0.43
1:CA:1190:G:OP2	2:CC:4:VAL:HB	2.19	0.43
1:AA:374:A:H5''	1:AA:452:A:N1	2.33	0.43
29:BG:140:ILE:HD12	29:BG:141:GLY:N	2.34	0.43
6:CG:100:MET:HA	6:CG:103:ILE:HD12	2.00	0.43
23:BB:281:C:H2'	23:BB:282:A:C8	2.54	0.43
23:BB:2479:U:OP1	51:B4:1:MET:SD	2.77	0.43
23:DB:565:C:O2'	23:DB:566:U:H5'	2.18	0.43
44:DX:31:GLN:NE2	44:DX:31:GLN:HA	2.29	0.43
23:DB:435:C:C2'	23:DB:436:C:H5'	2.49	0.43
23:DB:909:A:H2'	23:DB:912:C:H5	1.83	0.43
21:AU:44:ARG:HG3	21:AU:44:ARG:NH1	2.32	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2227:A:O2'	25:BC:258:SER:HA	2.19	0.43
9:CJ:85:ASP:O	9:CJ:86:ALA:C	2.57	0.43
6:CG:144:ALA:C	6:CG:146:ALA:N	2.71	0.43
23:DB:766:U:H2'	23:DB:767:U:H6	1.84	0.43
23:DB:2787:C:O2'	23:DB:2788:C:H5'	2.19	0.43
23:BB:373:U:O2'	23:BB:374:A:H5'	2.19	0.43
29:BG:121:THR:HG23	29:BG:133:LYS:O	2.18	0.43
11:AL:41:PRO:HD3	11:AL:47:ALA:O	2.19	0.43
44:DX:55:THR:O	44:DX:56:LEU:HB2	2.19	0.43
1:AA:552:U:H5'	11:AL:82:ARG:HH11	1.83	0.43
23:DB:2821:A:H2'	23:DB:2822:G:H8	1.82	0.43
1:AA:995:C:O2	1:AA:1047:G:H5'	2.18	0.43
34:BM:50:ARG:HH22	34:BM:54:THR:HG21	1.83	0.43
23:DB:1923:U:H2'	23:DB:1924:C:H6	1.84	0.43
23:BB:2633:G:H2'	23:BB:2634:A:O4'	2.19	0.43
15:CP:8:ARG:CZ	15:CP:15:PRO:HB3	2.48	0.43
23:DB:274:C:H2'	23:DB:275:C:C6	2.53	0.43
34:BM:131:VAL:O	34:BM:132:THR:HB	2.18	0.43
1:CA:607:A:H2'	1:CA:608:A:C8	2.52	0.43
1:AA:1234:C:O2'	1:AA:1235:U:H5'	2.18	0.43
23:DB:693:A:H2'	23:DB:694:U:C6	2.53	0.43
23:BB:2450:A:O2'	23:BB:2451:A:H5'	2.19	0.43
1:CA:721:G:H4'	1:CA:722:G:O4'	2.19	0.43
1:CA:432:A:C5	1:CA:433:G:C8	3.07	0.43
1:AA:432:A:C5	1:AA:433:G:C8	3.07	0.43
6:AG:110:ARG:HH12	6:AG:122:GLU:N	2.17	0.43
23:DB:1403:A:H2'	23:DB:1404:C:C6	2.54	0.43
1:CA:707:U:H4'	10:CK:21:HIS:CD2	2.54	0.43
1:AA:1292:G:O2'	1:AA:1293:C:H5'	2.19	0.43
23:BB:2662:A:H2'	23:BB:2663:G:O4'	2.18	0.43
40:DS:15:GLN:O	40:DS:19:LEU:HG	2.18	0.43
27:BE:158:PHE:C	27:BE:160:ALA:H	2.22	0.43
52:BI:56:VAL:CG2	52:BI:68:PHE:HB2	2.49	0.43
30:DH:69:ALA:O	30:DH:73:ASN:N	2.52	0.43
23:BB:1426:G:H8	23:BB:1426:G:OP2	2.01	0.43
23:DB:1426:G:H8	23:DB:1426:G:OP2	2.02	0.43
7:CH:68:LYS:HA	7:CH:68:LYS:HE3	2.01	0.43
23:BB:2152:G:H2'	23:BB:2153:C:C6	2.54	0.43
1:CA:275:G:O5'	16:CQ:15:LYS:HG2	2.19	0.43
23:DB:1498:C:H2'	23:DB:1499:C:C6	2.53	0.43
23:BB:100:U:OP1	23:BB:100:U:H2'	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BU:70:ALA:O	42:BU:71:ILE:C	2.56	0.43
42:BU:76:THR:O	42:BU:77:GLY:C	2.56	0.43
42:BU:78:LYS:CG	42:BU:96:LYS:HE3	2.48	0.43
30:BH:89:LYS:NZ	30:BH:123:ARG:HD3	2.34	0.43
23:BB:36:G:H4'	23:BB:451:U:N3	2.34	0.43
37:BP:28:LYS:C	37:BP:44:GLY:HA3	2.39	0.43
25:BC:153:LEU:O	25:BC:153:LEU:HG	2.19	0.43
47:D0:46:GLY:O	47:D0:47:TYR:HB3	2.18	0.43
30:BH:28:ASN:HA	30:BH:32:PRO:HG3	2.00	0.43
33:BL:60:ARG:HD3	50:B3:11:LYS:CE	2.49	0.43
46:BZ:3:LYS:HA	46:BZ:47:LYS:HA	2.00	0.43
46:BZ:4:ASP:O	46:BZ:5:ILE:C	2.57	0.43
46:DZ:49:ARG:O	46:DZ:52:ALA:N	2.50	0.43
34:BM:36:VAL:HG21	34:BM:125:PRO:HD3	2.00	0.43
34:BM:43:ALA:HB2	34:BM:91:TYR:O	2.18	0.43
38:BQ:33:VAL:O	38:BQ:36:GLN:N	2.50	0.43
38:BQ:35:PHE:HA	38:BQ:39:ILE:HD12	2.00	0.43
13:AN:11:LYS:NZ	13:AN:11:LYS:HA	2.34	0.43
39:DR:18:GLN:HB3	39:DR:99:THR:HB	2.01	0.43
34:DM:73:ILE:CD1	34:DM:92:TRP:HE3	2.32	0.43
27:BE:153:LEU:HD11	27:BE:201:ALA:HA	2.00	0.43
21:AU:16:ARG:C	21:AU:18:PHE:H	2.21	0.43
26:DD:33:ARG:C	26:DD:35:THR:H	2.22	0.43
33:DL:107:PHE:HE2	33:DL:126:ARG:HB2	1.84	0.43
12:CM:37:GLY:O	12:CM:38:ILE:HD13	2.18	0.43
13:CN:73:LEU:O	13:CN:74:ARG:C	2.57	0.43
20:AB:10:LYS:C	20:AB:12:GLY:H	2.22	0.43
23:DB:2564:A:OP1	23:DB:2648:G:H4'	2.18	0.43
44:DX:17:GLU:CA	44:DX:21:LEU:HB2	2.49	0.43
23:DB:2157:G:N3	23:DB:2157:G:C2'	2.79	0.43
45:DY:35:VAL:HG12	45:DY:36:GLU:H	1.83	0.43
2:AC:178:ARG:HG2	2:AC:178:ARG:O	2.19	0.43
1:AA:664:G:H5''	17:AR:52:ARG:CZ	2.48	0.43
3:AD:81:LEU:HD11	3:AD:92:LEU:HD21	2.00	0.43
23:BB:1081:U:O2'	23:BB:1082:U:H5'	2.19	0.43
39:DR:68:ARG:H	39:DR:97:LYS:HG3	1.84	0.43
7:AH:9:MET:HE3	7:AH:32:LYS:HB3	2.01	0.43
22:DA:32:U:C2	22:DA:33:G:C8	3.07	0.43
2:AC:72:PRO:HG2	2:AC:73:GLY:H	1.84	0.43
52:DI:54:ILE:HD11	52:DI:71:LYS:O	2.19	0.43
23:DB:878:A:H1'	23:DB:899:A:H62	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:56:LEU:HD11	11:AL:81:ILE:CD1	2.41	0.43
1:AA:233:C:O2'	1:AA:234:C:H5'	2.19	0.43
9:AJ:89:ARG:O	9:AJ:90:LEU:HD23	2.19	0.43
3:AD:117:VAL:HG12	3:AD:130:ASN:HA	2.01	0.43
23:DB:1829:A:H3'	23:DB:1830:C:H6	1.84	0.43
25:BC:75:ALA:HB1	25:BC:93:VAL:HG13	2.01	0.43
23:DB:598:U:C5'	33:DL:21:ARG:HB2	2.45	0.43
38:BQ:102:LYS:H	38:BQ:102:LYS:CD	2.29	0.43
42:DU:46:LYS:HG2	42:DU:53:GLN:HB2	2.01	0.43
2:AC:113:LYS:HZ3	2:AC:117:ASP:CG	2.22	0.43
23:DB:631:A:O2'	33:DL:66:PHE:CD1	2.70	0.43
23:DB:2466:C:O2'	23:DB:2467:C:H5'	2.17	0.43
7:AH:17:GLN:OE1	7:AH:69:ALA:HB1	2.19	0.43
3:AD:28:ASP:O	3:AD:29:THR:OG1	2.26	0.43
29:BG:137:LYS:HA	29:BG:140:ILE:HG13	2.00	0.43
23:DB:593:U:H2'	23:DB:594:U:H6	1.81	0.43
20:CB:216:VAL:HG23	20:CB:217:ALA:N	2.34	0.43
27:BE:25:GLU:OE2	33:BL:16:GLY:HA2	2.19	0.43
1:CA:730:G:O6	14:CO:50:HIS:NE2	2.49	0.43
29:DG:8:VAL:CG1	29:DG:49:LEU:HD12	2.48	0.43
23:BB:1076:C:O2'	23:BB:1077:A:H5'	2.19	0.43
23:DB:2361:G:O2'	23:DB:2362:C:H5'	2.18	0.43
1:CA:1409:C:O2	23:DB:1913:A:N6	2.52	0.43
1:AA:167:A:O2'	1:AA:168:G:H5'	2.19	0.43
1:CA:979:C:H41	1:CA:1360:A:H62	1.67	0.43
38:DQ:25:GLY:O	38:DQ:29:ARG:HG3	2.18	0.43
23:BB:357:C:H2'	23:BB:358:U:C6	2.54	0.43
14:AO:2:LEU:HD22	14:AO:7:THR:HG23	2.00	0.43
28:BF:2:LYS:CA	28:BF:2:LYS:HE2	2.48	0.43
27:DE:176:ASP:OD1	27:DE:177:PRO:HD2	2.19	0.43
32:DK:10:VAL:HG21	32:DK:17:ARG:N	2.34	0.43
16:AQ:60:ILE:HB	16:AQ:72:TRP:CE3	2.54	0.43
20:AB:121:GLN:HB3	20:AB:121:GLN:HE21	1.52	0.43
1:AA:1055:A:H4'	2:AC:160:GLU:HG3	1.99	0.43
23:BB:1707:G:H2'	23:BB:1708:C:C6	2.54	0.43
3:CD:44:LYS:NZ	3:CD:46:ARG:HA	2.34	0.43
1:CA:1067:A:H3'	1:CA:1094:G:OP1	2.19	0.43
35:BN:57:THR:CB	35:BN:61:ALA:HB3	2.49	0.43
33:DL:14:LYS:O	33:DL:15:ALA:C	2.57	0.43
1:CA:513:C:H2'	1:CA:514:C:C6	2.53	0.43
1:AA:709:U:H2'	1:AA:710:G:H8	1.84	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:513:C:H2'	1:AA:514:C:C6	2.54	0.43
23:BB:1704:C:H2'	23:BB:1705:A:C8	2.54	0.43
23:DB:1704:C:H2'	23:DB:1705:A:C8	2.54	0.43
1:CA:822:U:O2'	1:CA:823:C:H5'	2.19	0.43
10:CK:63:GLN:HG3	10:CK:98:ALA:HB2	2.01	0.43
23:BB:1281:G:H2'	23:BB:1282:U:O4'	2.18	0.43
23:BB:756:A:H2'	23:BB:757:G:O4'	2.19	0.43
50:D3:39:ARG:HD3	50:D3:39:ARG:HA	1.76	0.43
32:BK:108:ARG:HG3	32:BK:108:ARG:HH11	1.83	0.43
23:BB:1244:A:H4'	33:BL:15:ALA:HB1	2.00	0.43
37:BP:51:ASN:HA	37:BP:60:VAL:HB	2.00	0.43
25:BC:156:SER:O	25:BC:157:ALA:C	2.58	0.43
30:DH:4:ILE:CD1	30:DH:37:VAL:HG13	2.49	0.43
23:DB:2782:G:O2'	23:DB:2783:U:H5'	2.19	0.43
35:DN:21:PHE:HA	35:DN:24:MET:HB3	2.01	0.43
25:DC:106:PRO:HB2	25:DC:107:LYS:H	1.68	0.43
39:DR:76:LYS:HE3	39:DR:90:ARG:HD3	2.01	0.43
50:B3:22:LYS:HD2	50:B3:46:LYS:HA	1.99	0.43
33:BL:61:LEU:CB	33:BL:62:PRO:CD	2.92	0.43
23:BB:971:G:H2'	23:BB:972:A:O4'	2.19	0.43
46:DZ:3:LYS:HE2	46:DZ:48:GLN:HB2	2.00	0.43
16:AQ:10:ARG:HH22	16:AQ:58:VAL:HG13	1.84	0.43
35:DN:4:ARG:HB3	35:DN:4:ARG:CZ	2.49	0.43
1:AA:401:C:O2'	1:AA:402:G:H5'	2.18	0.43
23:BB:975:A:H1'	23:BB:990:A:C2	2.54	0.43
41:DT:47:VAL:CG2	41:DT:53:VAL:HG21	2.42	0.43
8:AI:82:ILE:HG22	8:AI:86:LEU:HD21	2.01	0.43
31:BJ:80:HIS:HB2	31:BJ:84:ILE:HD11	1.99	0.43
40:BS:33:LEU:O	40:BS:35:ILE:N	2.50	0.43
40:BS:29:VAL:H	40:BS:71:VAL:HG21	1.84	0.43
23:BB:2330:G:O2'	43:BW:36:ILE:HD11	2.18	0.43
27:BE:144:GLU:HG3	27:BE:145:ASP:N	2.34	0.43
27:BE:189:THR:O	27:BE:190:ALA:HB3	2.19	0.43
43:DW:17:ALA:O	43:DW:18:LYS:CG	2.66	0.43
26:DD:4:LEU:HB3	26:DD:202:ILE:HA	2.01	0.43
23:DB:630:G:N1	33:DL:69:ARG:NH1	2.66	0.43
33:DL:79:LEU:H	33:DL:113:ALA:CB	2.31	0.43
44:BX:18:LEU:HD23	44:BX:18:LEU:N	2.34	0.43
23:BB:2511:U:O5'	23:BB:2511:U:H6	2.02	0.43
23:DB:981:A:N1	23:DB:2027:G:O2'	2.43	0.43
51:D4:19:ARG:HB3	51:D4:20:ASP:H	1.47	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:225:ASN:HD22	25:BC:225:ASN:HA	1.52	0.43
25:BC:247:TRP:HD1	25:BC:247:TRP:O	2.02	0.43
52:BI:75:ALA:CB	52:BI:131:THR:HG21	2.49	0.43
13:CN:26:LEU:O	13:CN:44:VAL:HG11	2.19	0.43
26:DD:172:VAL:HB	26:DD:175:LEU:HD11	2.00	0.43
26:DD:25:THR:HG22	26:DD:188:LEU:CD1	2.49	0.43
39:DR:38:VAL:O	39:DR:41:ILE:HG22	2.18	0.43
5:AF:7:VAL:HG23	5:AF:60:VAL:O	2.18	0.43
1:CA:1309:G:H5'	12:CM:76:ILE:HG12	2.00	0.43
1:AA:1322:C:O4'	1:AA:1322:C:O2	2.37	0.43
11:CL:109:ARG:C	11:CL:110:LYS:HD2	2.39	0.43
35:BN:19:ALA:C	35:BN:21:PHE:N	2.72	0.43
23:BB:285:G:C2'	23:BB:286:U:H5'	2.49	0.43
9:AJ:7:ARG:HG2	9:AJ:75:ASP:OD2	2.18	0.43
34:DM:133:LYS:CD	34:DM:134:THR:H	2.30	0.43
20:AB:35:ASN:O	20:AB:36:LYS:HB2	2.19	0.43
23:BB:2811:G:H2'	23:BB:2812:G:H8	1.83	0.43
1:CA:815:A:N6	1:CA:1509:C:H1'	2.32	0.43
1:CA:814:A:H5'	1:CA:1511:G:C4'	2.42	0.43
23:DB:2256:G:H2'	23:DB:2257:U:H6	1.84	0.43
35:BN:99:LYS:CB	35:BN:99:LYS:NZ	2.79	0.43
9:AJ:57:VAL:HG13	9:AJ:58:ASN:CG	2.39	0.43
9:AJ:57:VAL:HG13	9:AJ:58:ASN:N	2.33	0.43
23:BB:1773:A:H2'	23:BB:1774:C:O4'	2.19	0.43
1:AA:861:G:H2'	1:AA:862:C:H6	1.84	0.43
23:DB:539:G:H2'	23:DB:540:C:C6	2.54	0.43
29:BG:140:ILE:HD12	29:BG:140:ILE:C	2.39	0.43
23:DB:2405:G:H5'	33:DL:70:LYS:CG	2.49	0.43
6:CG:29:LEU:CD2	6:CG:104:VAL:HG13	2.49	0.43
36:BO:67:ASN:HD22	36:BO:67:ASN:HA	1.65	0.43
23:BB:832:U:OP1	33:BL:45:GLY:N	2.46	0.43
1:CA:408:A:H3'	1:CA:409:U:C6	2.47	0.43
3:CD:21:LYS:C	3:CD:23:GLY:H	2.22	0.43
2:CC:166:TRP:HE1	2:CC:168:ARG:CB	2.32	0.43
1:AA:371:A:H2'	1:AA:372:C:C6	2.54	0.43
23:BB:1359:A:H2'	23:BB:1360:G:O4'	2.17	0.43
1:CA:635:A:H2'	1:CA:636:U:C6	2.53	0.43
25:DC:235:GLU:CG	25:DC:236:GLY:H	2.30	0.43
23:BB:848:C:H3'	23:BB:849:A:H8	1.83	0.43
23:DB:2341:G:H2'	23:DB:2342:C:C6	2.54	0.43
23:BB:2671:G:O2'	23:BB:2672:U:H5'	2.19	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:25:C:H2'	1:AA:26:A:C8	2.54	0.43
1:AA:529:G:H22	11:AL:47:ALA:HB3	1.84	0.43
1:CA:113:G:C1'	1:CA:354:G:H5'	2.49	0.43
22:DA:111:U:O2'	22:DA:112:G:H5'	2.18	0.43
23:DB:1841:U:C2	23:DB:1842:G:C8	3.07	0.43
1:CA:453:G:C6	1:CA:454:G:C6	3.06	0.43
3:CD:121:ALA:C	3:CD:145:ARG:HG3	2.39	0.43
1:AA:626:G:H2'	1:AA:627:G:H8	1.83	0.43
1:AA:1263:C:H2'	1:AA:1264:U:H6	1.84	0.43
23:DB:2450:A:O2'	23:DB:2451:A:H5'	2.19	0.43
49:B2:3:ARG:HB3	49:B2:5:PHE:HE1	1.84	0.43
1:AA:659:U:O2'	1:AA:660:C:H5'	2.18	0.43
23:BB:1634:A:H3'	23:BB:1635:A:C5'	2.48	0.43
7:CH:50:VAL:HG23	7:CH:57:GLU:O	2.19	0.43
1:CA:179:A:H2'	1:CA:180:U:C6	2.54	0.43
23:BB:2663:G:H2'	23:BB:2664:G:C8	2.54	0.43
1:AA:155:A:H2'	1:AA:156:C:O4'	2.19	0.43
16:CQ:35:LYS:O	16:CQ:37:ILE:HG23	2.19	0.43
1:AA:484:G:O2'	1:AA:485:U:OP2	2.29	0.43
23:DB:1891:G:H2'	23:DB:1892:C:H6	1.84	0.43
47:B0:4:GLN:O	47:B0:5:ASN:C	2.57	0.43
20:AB:217:ALA:O	20:AB:221:ARG:HG3	2.18	0.43
20:CB:111:LYS:O	20:CB:114:LYS:HB3	2.19	0.43
23:BB:511:U:H6	23:BB:511:U:O5'	2.01	0.43
37:DP:20:ARG:HH21	37:DP:20:ARG:HG2	1.84	0.43
1:AA:721:G:H4'	1:AA:722:G:O4'	2.19	0.43
1:CA:975:A:H1'	1:CA:1358:U:O2	2.19	0.42
23:DB:2336:A:HO2'	23:DB:2337:G:P	2.41	0.42
23:DB:2385:C:H2'	23:DB:2386:A:C8	2.53	0.42
43:DW:36:ILE:HG13	43:DW:37:VAL:N	2.34	0.42
23:BB:2333:A:O2'	36:BO:7:ARG:HD3	2.19	0.42
30:DH:12:LEU:HD22	30:DH:19:VAL:CG1	2.49	0.42
23:DB:2811:G:H2'	23:DB:2812:G:C8	2.54	0.42
23:DB:2813:A:O2'	23:DB:2814:A:H5'	2.18	0.42
25:DC:172:THR:HB	25:DC:173:LEU:H	1.56	0.42
31:BJ:102:GLU:CG	31:BJ:124:VAL:HG11	2.49	0.42
31:BJ:128:ASN:CG	31:BJ:129:GLU:N	2.72	0.42
18:AS:29:PRO:HB3	18:AS:47:THR:HB	2.00	0.42
27:BE:128:ALA:CA	27:BE:157:LEU:HD22	2.48	0.42
33:BL:63:LYS:C	50:B3:24:LYS:HZ2	2.23	0.42
32:BK:71:ARG:HD3	32:BK:71:ARG:HA	1.87	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2052:A:C4	26:BD:155:VAL:HG23	2.54	0.42
5:CF:3:HIS:CB	5:CF:92:THR:HA	2.31	0.42
23:DB:1803:A:H2	23:DB:1823:G:O4'	2.02	0.42
23:DB:2294:G:P	36:DO:9:ARG:NE	2.92	0.42
36:DO:71:ALA:O	36:DO:74:VAL:HG22	2.19	0.42
33:BL:38:GLN:HA	33:BL:41:ARG:NH1	2.34	0.42
23:BB:995:C:C4	31:BJ:2:LYS:HB3	2.54	0.42
26:BD:108:ASP:CB	26:BD:173:GLN:HA	2.48	0.42
43:BW:35:ILE:CG2	43:BW:36:ILE:H	2.14	0.42
3:CD:170:LEU:CA	3:CD:182:LYS:HG3	2.48	0.42
26:DD:109:VAL:HA	26:DD:203:VAL:HA	2.01	0.42
30:DH:77:THR:HG22	30:DH:143:ILE:HB	2.00	0.42
13:CN:50:LEU:HD12	13:CN:51:PRO:CD	2.46	0.42
41:BT:47:VAL:HB	41:BT:55:VAL:HG21	2.00	0.42
26:BD:130:GLN:O	26:BD:140:HIS:ND1	2.51	0.42
13:CN:13:VAL:HA	13:CN:59:GLN:HE21	1.84	0.42
40:DS:23:LEU:CB	47:D0:21:LEU:HD13	2.37	0.42
23:DB:2511:U:H2'	23:DB:2512:C:O4'	2.19	0.42
23:DB:2513:A:H2'	23:DB:2514:U:C6	2.54	0.42
23:BB:1062:G:H2'	23:BB:1063:G:H8	1.84	0.42
45:DY:5:LYS:NZ	45:DY:5:LYS:HB2	2.34	0.42
45:DY:5:LYS:O	45:DY:56:VAL:HG12	2.19	0.42
26:DD:11:MET:O	26:DD:22:ILE:HD12	2.19	0.42
37:DP:32:VAL:O	37:DP:34:GLY:N	2.51	0.42
31:DJ:62:VAL:HG11	31:DJ:101:ILE:HD11	2.00	0.42
48:B1:47:ILE:HG13	48:B1:48:TYR:N	2.34	0.42
14:CO:80:LEU:C	14:CO:80:LEU:HD23	2.39	0.42
28:BF:67:THR:OG1	28:BF:85:GLY:HA3	2.19	0.42
20:AB:37:VAL:CG2	20:AB:38:HIS:N	2.81	0.42
23:BB:1079:C:C2	23:BB:1080:A:C8	3.07	0.42
39:DR:67:GLY:H	39:DR:98:ILE:N	2.17	0.42
39:DR:69:GLY:HA3	39:DR:96:VAL:HG13	2.00	0.42
23:BB:1917:U:H2'	23:BB:1918:A:C5'	2.48	0.42
52:DI:49:GLU:HB2	52:DI:52:LEU:HD12	2.00	0.42
41:DT:34:VAL:O	41:DT:81:LYS:HB3	2.19	0.42
47:B0:53:VAL:HG12	47:B0:54:ILE:N	2.34	0.42
48:D1:24:LYS:O	48:D1:24:LYS:HD3	2.19	0.42
9:CJ:40:ILE:HG12	9:CJ:74:VAL:H	1.84	0.42
9:CJ:8:ILE:HG12	9:CJ:75:ASP:HA	2.00	0.42
23:BB:2270:A:C5'	43:BW:18:LYS:HB3	2.49	0.42
31:BJ:7:LYS:HD2	31:BJ:49:ASP:CB	2.44	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:78:GLU:CB	25:BC:92:LEU:HD23	2.49	0.42
3:AD:138:PRO:HA	3:AD:181:PHE:HD2	1.83	0.42
29:BG:5:LYS:O	29:BG:68:ARG:NH1	2.52	0.42
8:CI:21:LYS:O	8:CI:61:ASP:N	2.51	0.42
48:B1:53:ILE:CD1	48:B1:54:LYS:H	2.32	0.42
38:DQ:32:ARG:HG2	38:DQ:32:ARG:NH1	2.32	0.42
11:CL:17:LYS:HZ3	11:CL:17:LYS:HB2	1.82	0.42
23:DB:153:U:H6	23:DB:153:U:O5'	2.02	0.42
28:DF:41:GLU:OE1	28:DF:41:GLU:N	2.52	0.42
1:AA:1035:A:C2'	1:AA:1036:A:H8	2.27	0.42
6:AG:117:LEU:C	6:AG:117:LEU:HD13	2.39	0.42
1:CA:861:G:H2'	1:CA:862:C:H6	1.84	0.42
3:AD:201:GLU:CG	4:AE:103:GLY:HA3	2.49	0.42
22:DA:60:C:H2'	22:DA:61:G:H8	1.83	0.42
1:CA:994:A:H2'	1:CA:994:A:N3	2.34	0.42
1:AA:1072:G:H2'	1:AA:1073:U:O4'	2.19	0.42
9:CJ:9:ARG:HH11	9:CJ:9:ARG:HA	1.84	0.42
23:BB:241:A:H4'	50:B3:63:TYR:OH	2.18	0.42
23:BB:2290:G:H2'	23:BB:2291:U:C6	2.53	0.42
1:AA:208:U:H2'	1:AA:210:C:C5	2.54	0.42
1:AA:538:G:H2'	1:AA:539:A:C8	2.54	0.42
11:AL:106:VAL:CG2	11:AL:109:ARG:HG3	2.48	0.42
2:CC:168:ARG:HE	2:CC:169:GLU:N	2.17	0.42
28:BF:15:LEU:O	28:BF:18:GLU:O	2.37	0.42
1:AA:997:U:H2'	1:AA:998:C:H6	1.82	0.42
23:DB:2076:U:OP2	23:DB:2238:G:N2	2.48	0.42
1:CA:1521:C:H2'	1:CA:1522:U:H6	1.83	0.42
1:CA:406:G:H21	3:CD:115:GLN:HE22	1.65	0.42
17:CR:20:ILE:HG23	17:CR:20:ILE:O	2.19	0.42
19:AT:4:LYS:HD2	19:AT:5:SER:H	1.82	0.42
23:DB:2671:G:H2'	23:DB:2672:U:H6	1.80	0.42
23:BB:402:A:C2'	23:BB:403:U:H5'	2.49	0.42
19:AT:50:PHE:CE2	19:AT:75:LYS:HA	2.53	0.42
33:DL:25:SER:C	33:DL:27:LEU:N	2.72	0.42
1:AA:113:G:C1'	1:AA:354:G:H5'	2.49	0.42
23:DB:1770:G:O2'	23:DB:1771:C:H5'	2.19	0.42
23:DB:818:G:H4'	23:DB:838:C:O3'	2.19	0.42
1:AA:332:G:P	19:AT:2:ASN:HB3	2.59	0.42
8:AI:115:VAL:HG23	9:AJ:62:ARG:HD2	2.00	0.42
41:BT:50:LEU:O	41:BT:51:PHE:HB2	2.18	0.42
1:CA:697:U:C2'	1:CA:698:G:H5'	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:134:THR:O	34:BM:135:VAL:HG13	2.18	0.42
23:DB:2094:A:H5''	30:DH:22:LYS:HG3	2.01	0.42
1:CA:69:G:N2	1:CA:71:A:H62	2.16	0.42
23:DB:409:G:O2'	23:DB:410:G:H5'	2.19	0.42
23:DB:1998:A:H2'	23:DB:1999:C:H6	1.84	0.42
20:AB:21:TYR:O	20:AB:22:TRP:O	2.36	0.42
26:DD:113:SER:O	26:DD:167:ASN:HB2	2.19	0.42
11:AL:58:ASN:H	11:AL:58:ASN:HD22	1.66	0.42
23:BB:1526:C:O2'	23:BB:1527:G:H5'	2.19	0.42
25:BC:198:GLU:HA	25:BC:201:LEU:HB2	2.01	0.42
1:AA:179:A:H2'	1:AA:180:U:H6	1.83	0.42
1:CA:179:A:H2'	1:CA:180:U:H6	1.84	0.42
23:DB:2428:G:H5''	23:DB:2429:G:O5'	2.18	0.42
1:CA:1264:U:H2'	1:CA:1265:C:O4'	2.19	0.42
23:DB:1513:U:O2'	23:DB:1514:G:H5'	2.19	0.42
23:DB:758:C:O2	23:DB:1981:A:H2	2.01	0.42
23:BB:1314:C:O2	23:BB:1314:C:H2'	2.18	0.42
14:AO:71:ARG:HH11	14:AO:71:ARG:CB	2.32	0.42
20:CB:121:GLN:NE2	20:CB:122:ASP:N	2.67	0.42
1:AA:349:A:H2'	1:AA:350:G:C8	2.54	0.42
23:DB:2866:U:O3'	23:DB:2867:G:H4'	2.19	0.42
37:DP:92:ARG:HD3	37:DP:110:LYS:O	2.19	0.42
27:DE:49:ARG:C	27:DE:51:GLU:N	2.73	0.42
23:DB:96:C:H2'	23:DB:97:C:H6	1.84	0.42
42:BU:13:LEU:H	42:BU:68:ASN:HD21	1.66	0.42
30:BH:80:ILE:HD11	30:BH:102:ALA:HA	2.01	0.42
51:D4:24:ARG:NE	51:D4:37:GLN:HA	2.33	0.42
37:BP:61:ARG:O	37:BP:63:ILE:N	2.52	0.42
37:BP:7:LEU:C	37:BP:7:LEU:HD13	2.39	0.42
30:DH:12:LEU:C	30:DH:12:LEU:HD23	2.39	0.42
23:DB:1818:U:C3'	25:DC:155:ARG:HB2	2.49	0.42
25:DC:107:LYS:HD2	25:DC:196:ASN:HD21	1.84	0.42
25:DC:62:ARG:HH22	25:DC:86:ARG:HH21	1.66	0.42
38:DQ:39:ILE:C	38:DQ:39:ILE:HD12	2.40	0.42
30:BH:31:VAL:HB	30:BH:32:PRO:HD3	2.01	0.42
27:DE:123:LYS:HD2	27:DE:157:LEU:CD1	2.48	0.42
27:DE:146:VAL:O	27:DE:148:ILE:N	2.51	0.42
33:BL:127:VAL:HB	33:BL:128:THR:H	1.51	0.42
33:BL:96:LYS:N	33:BL:96:LYS:HD3	2.34	0.42
46:BZ:58:ASP:OD2	46:BZ:63:ARG:NH1	2.52	0.42
23:DB:2087:G:H2'	23:DB:2088:A:H8	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BM:36:VAL:HG11	34:BM:125:PRO:HD2	2.00	0.42
34:BM:25:ASP:OD2	34:BM:66:ARG:NH2	2.52	0.42
8:AI:49:GLN:HB3	8:AI:49:GLN:HE21	1.61	0.42
25:BC:27:LYS:HA	25:BC:79:ARG:NH2	2.34	0.42
25:BC:84:PRO:O	25:BC:86:ARG:N	2.48	0.42
34:DM:41:LEU:HD21	34:DM:46:ILE:HD11	2.01	0.42
34:DM:43:ALA:HB3	34:DM:91:TYR:CD2	2.55	0.42
39:BR:39:LEU:O	39:BR:39:LEU:HD23	2.18	0.42
39:BR:53:PHE:CD2	39:BR:55:ASP:N	2.82	0.42
30:DH:93:SER:C	30:DH:94:ILE:HD12	2.39	0.42
12:AM:79:LEU:HD22	12:AM:86:ARG:NH2	2.33	0.42
33:DL:77:ILE:CD1	33:DL:109:LYS:HB2	2.46	0.42
41:BT:3:ARG:HG2	41:BT:7:LEU:HD23	2.01	0.42
47:D0:15:ARG:HB3	47:D0:15:ARG:CZ	2.49	0.42
26:BD:142:VAL:C	26:BD:144:GLY:H	2.21	0.42
23:DB:1260:A:O2'	23:DB:1261:C:H5'	2.19	0.42
21:CU:19:LYS:HG3	21:CU:20:ARG:HE	1.83	0.42
26:DD:154:LYS:O	26:DD:156:PHE:N	2.51	0.42
23:DB:2649:C:O2'	23:DB:2650:U:H5'	2.19	0.42
23:BB:2637:U:O2'	23:BB:2638:G:H5'	2.18	0.42
52:BI:116:MET:CE	52:BI:127:SER:HB2	2.49	0.42
38:DQ:90:ASP:CB	39:DR:42:ALA:HB3	2.49	0.42
10:CK:86:LYS:HG3	10:CK:113:THR:HA	2.00	0.42
15:AP:52:LEU:HG	15:AP:75:ILE:CG1	2.48	0.42
4:CE:89:THR:O	4:CE:91:SER:N	2.52	0.42
19:AT:60:GLN:HB2	19:AT:65:LEU:HD12	2.01	0.42
19:AT:70:LYS:HA	19:AT:73:ARG:CZ	2.48	0.42
15:CP:5:ARG:O	15:CP:19:VAL:HA	2.20	0.42
35:BN:19:ALA:C	35:BN:21:PHE:H	2.22	0.42
20:CB:113:LEU:HD11	20:CB:144:GLU:HA	2.01	0.42
16:AQ:28:VAL:HG13	16:AQ:28:VAL:O	2.19	0.42
47:B0:53:VAL:HG12	47:B0:54:ILE:H	1.84	0.42
2:CC:137:VAL:HG13	2:CC:148:ILE:CG2	2.49	0.42
29:DG:136:ASP:O	29:DG:140:ILE:HG12	2.19	0.42
1:AA:93:U:H2'	1:AA:95:C:H5	1.83	0.42
23:DB:543:G:C6	23:DB:544:C:H1'	2.54	0.42
41:BT:69:ARG:H	41:BT:75:GLY:CA	2.32	0.42
16:CQ:75:VAL:HG23	16:CQ:76:ARG:N	2.33	0.42
23:DB:631:A:O2'	33:DL:66:PHE:HD1	1.97	0.42
5:CF:11:HIS:CD2	5:CF:13:ASP:HB3	2.54	0.42
3:AD:29:THR:O	3:AD:30:LYS:HB2	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:9:THR:H	43:BW:10:ARG:HD3	1.83	0.42
29:DG:23:ILE:HD13	29:DG:71:LEU:HD22	2.01	0.42
6:CG:46:LEU:O	6:CG:50:ALA:HB2	2.19	0.42
29:DG:154:GLU:OE2	29:DG:157:LYS:HB2	2.18	0.42
28:BF:177:ARG:HE	28:BF:178:LYS:HA	1.81	0.42
36:DO:86:GLY:C	36:DO:88:LYS:N	2.73	0.42
1:AA:738:C:H2'	1:AA:739:C:C6	2.55	0.42
1:CA:79:G:H2'	1:CA:80:A:C8	2.53	0.42
23:BB:766:U:H2'	23:BB:767:U:H6	1.84	0.42
2:CC:64:ARG:O	2:CC:65:VAL:HB	2.19	0.42
1:AA:523:A:H61	11:AL:88:ASP:HB2	1.84	0.42
23:BB:2570:G:O2'	23:BB:2571:U:H5'	2.19	0.42
20:CB:128:LEU:HD21	20:CB:132:GLU:HB3	2.01	0.42
23:DB:329:G:H1'	23:DB:477:A:H1'	2.02	0.42
23:BB:2082:A:H2'	23:BB:2083:G:O4'	2.19	0.42
44:DX:46:VAL:O	44:DX:49:ASP:HB3	2.18	0.42
1:CA:112:G:O2'	1:CA:113:G:H5'	2.19	0.42
1:AA:113:G:O4'	1:AA:354:G:H4'	2.19	0.42
1:AA:1082:A:H2'	1:AA:1083:U:C6	2.53	0.42
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.30	0.42
1:AA:425:G:O2'	1:AA:426:U:H5'	2.18	0.42
1:AA:697:U:C2'	1:AA:698:G:H5'	2.49	0.42
27:BE:135:ALA:O	27:BE:139:LYS:HD2	2.19	0.42
1:CA:1493:A:C2'	1:CA:1494:G:OP2	2.67	0.42
23:DB:679:C:O2'	23:DB:680:C:H5'	2.19	0.42
7:AH:98:LEU:N	7:AH:98:LEU:HD12	2.34	0.42
1:AA:822:U:O2'	1:AA:823:C:H5'	2.19	0.42
15:CP:48:GLU:HG2	15:CP:49:GLY:N	2.34	0.42
23:BB:822:G:H2'	23:BB:823:C:H6	1.84	0.42
1:AA:644:U:O2'	1:AA:645:G:H5'	2.20	0.42
1:CA:1531:A:H2'	1:CA:1532:U:O4'	2.19	0.42
23:DB:1068:G:C6	23:DB:1069:A:N6	2.87	0.42
23:DB:2508:G:O3'	23:DB:2555:U:H5'	2.18	0.42
23:DB:348:A:H2'	23:DB:349:U:O4'	2.18	0.42
9:CJ:84:VAL:O	9:CJ:88:MET:HB3	2.19	0.42
9:CJ:91:ASP:C	9:CJ:92:LEU:HD23	2.40	0.42
37:DP:18:SER:HB2	37:DP:87:ARG:NH1	2.34	0.42
23:BB:1113:U:OP1	29:BG:1:SER:C	2.58	0.42
37:BP:61:ARG:O	37:BP:62:LYS:C	2.57	0.42
25:BC:124:LYS:O	25:BC:191:LEU:CD1	2.67	0.42
25:BC:171:VAL:HB	25:BC:182:LYS:CB	2.47	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:68:ARG:CZ	25:BC:103:ILE:HD12	2.49	0.42
23:DB:2633:G:H2'	23:DB:2634:A:O4'	2.19	0.42
23:DB:5:A:H2'	23:DB:6:A:H8	1.84	0.42
23:BB:1017:G:O2'	23:BB:1018:U:H5'	2.20	0.42
31:BJ:100:VAL:CG2	31:BJ:101:ILE:H	2.26	0.42
31:BJ:55:ILE:HD13	31:BJ:132:HIS:NE2	2.35	0.42
31:BJ:72:LYS:HG3	31:BJ:90:GLU:HB2	2.01	0.42
23:DB:2019:A:C6	23:DB:2020:A:N7	2.88	0.42
38:DQ:52:ARG:O	38:DQ:53:LYS:C	2.58	0.42
42:DU:32:LYS:HA	42:DU:65:GLN:NE2	2.34	0.42
30:BH:4:ILE:N	30:BH:37:VAL:HB	2.19	0.42
30:BH:5:LEU:O	30:BH:6:LEU:HB3	2.19	0.42
27:DE:115:GLN:CB	27:DE:117:ARG:NH1	2.81	0.42
34:BM:33:LEU:HB2	34:BM:101:VAL:CG1	2.50	0.42
34:BM:35:ALA:C	34:BM:36:VAL:HG13	2.40	0.42
34:BM:90:GLU:O	34:BM:91:TYR:HB2	2.20	0.42
1:AA:254:G:OP1	16:AQ:68:LYS:O	2.37	0.42
13:AN:62:ARG:HA	13:AN:69:PRO:HA	2.01	0.42
25:DC:47:ARG:HB3	25:DC:48:ILE:H	1.54	0.42
42:BU:38:ILE:O	42:BU:62:ALA:HB3	2.19	0.42
28:BF:133:GLU:CG	28:BF:147:ARG:HG2	2.32	0.42
35:BN:28:LEU:CD2	35:BN:48:VAL:HG21	2.49	0.42
31:DJ:78:THR:H	31:DJ:84:ILE:HD13	1.84	0.42
43:BW:11:ASN:ND2	43:BW:13:ARG:NH2	2.67	0.42
27:BE:120:VAL:H	27:BE:189:THR:HA	1.84	0.42
27:BE:148:ILE:C	27:BE:148:ILE:HD12	2.38	0.42
27:BE:148:ILE:N	27:BE:183:PHE:HD2	2.17	0.42
27:BE:4:VAL:N	27:BE:117:ARG:HH21	2.17	0.42
21:AU:26:GLY:C	21:AU:28:LEU:N	2.72	0.42
3:AD:116:LEU:O	3:AD:121:ALA:HB3	2.19	0.42
30:DH:108:VAL:CG1	30:DH:110:VAL:HB	2.49	0.42
30:DH:88:GLY:HA3	30:DH:125:THR:OG1	2.18	0.42
33:DL:71:ALA:O	33:DL:72:ALA:O	2.37	0.42
30:BH:114:GLU:HB3	30:BH:133:GLN:C	2.40	0.42
9:CJ:52:LEU:CD1	9:CJ:62:ARG:HE	2.31	0.42
13:CN:63:CYS:O	13:CN:67:GLY:HA2	2.18	0.42
32:BK:104:THR:OG1	32:BK:107:LEU:HB2	2.19	0.42
23:BB:2649:C:H2'	23:BB:2650:U:C6	2.52	0.42
26:BD:37:VAL:HG22	26:BD:46:ARG:HD3	2.00	0.42
23:DB:1813:G:O4'	25:DC:45:ASN:HB3	2.20	0.42
3:CD:24:VAL:HG23	3:CD:25:ARG:H	1.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CT:66:ILE:HG22	19:CT:67:HIS:N	2.34	0.42
1:AA:664:G:H5''	17:AR:52:ARG:NH2	2.34	0.42
23:BB:795:C:H2'	23:BB:796:C:H6	1.85	0.42
23:BB:751:A:H5'	40:BS:90:LYS:HZ1	1.84	0.42
7:CH:14:ARG:HG3	7:CH:15:ASN:N	2.33	0.42
37:BP:91:VAL:HB	37:BP:113:LEU:CG	2.47	0.42
23:DB:249:C:O3'	50:D3:7:ARG:HD3	2.19	0.42
1:AA:234:C:H2'	1:AA:235:C:H6	1.84	0.42
23:DB:125:A:C4'	49:D2:13:ASN:ND2	2.82	0.42
1:CA:233:C:O2'	1:CA:234:C:H5'	2.19	0.42
48:D1:5:ARG:HA	48:D1:28:THR:HG1	1.83	0.42
48:D1:8:ILE:HG21	48:D1:27:ARG:HD3	2.01	0.42
9:AJ:38:GLY:O	9:AJ:74:VAL:HA	2.19	0.42
1:CA:674:G:OP1	5:CF:51:ILE:HG13	2.20	0.42
26:BD:61:THR:C	26:BD:63:PRO:HD2	2.40	0.42
1:CA:806:C:O2'	1:CA:807:A:H5'	2.20	0.42
11:CL:100:ALA:O	11:CL:103:CYS:SG	2.78	0.42
4:CE:102:THR:HG21	4:CE:123:LEU:HD21	2.01	0.42
1:AA:1250:A:H5'	8:AI:69:GLY:O	2.18	0.42
23:DB:545:U:C4	23:DB:548:G:OP1	2.73	0.42
47:B0:7:PRO:O	47:B0:8:THR:C	2.58	0.42
8:AI:118:ARG:NH1	8:AI:122:ARG:HE	2.17	0.42
23:BB:935:C:H2'	23:BB:936:A:C8	2.54	0.42
23:BB:1408:G:H2'	23:BB:1409:U:C6	2.54	0.42
2:CC:128:MET:O	2:CC:130:ARG:N	2.41	0.42
22:DA:56:G:H4'	22:DA:57:A:H5'	2.02	0.42
23:BB:1803:A:H2	23:BB:1823:G:O4'	2.02	0.42
39:BR:33:VAL:O	39:BR:33:VAL:HG12	2.19	0.42
23:DB:538:A:H2'	23:DB:539:G:O4'	2.19	0.42
22:DA:15:A:H1'	22:DA:109:A:C5	2.55	0.42
20:CB:86:CYS:C	20:CB:88:GLN:N	2.73	0.42
20:AB:112:ARG:HH11	20:AB:112:ARG:HG3	1.83	0.42
1:CA:195:A:H1'	1:CA:222:C:O2'	2.18	0.42
23:BB:1236:G:O2'	23:BB:1237:A:P	2.77	0.42
22:DA:43:C:C4'	28:DF:62:GLN:HE21	2.32	0.42
23:DB:906:U:H1'	34:DM:66:ARG:NH2	2.34	0.42
23:BB:2643:G:H2'	23:BB:2644:G:O4'	2.18	0.42
2:CC:139:ASN:O	2:CC:143:LEU:HD13	2.18	0.42
23:DB:2671:G:O2'	23:DB:2672:U:H5'	2.19	0.42
29:BG:150:TYR:O	29:BG:151:ARG:HB2	2.19	0.42
5:AF:43:GLY:HA2	5:AF:58:HIS:CE1	2.53	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BT:26:LYS:HD2	41:BT:26:LYS:C	2.40	0.42
1:CA:329:A:H8	1:CA:329:A:H5'	1.84	0.42
23:BB:1064:C:H2'	23:BB:1065:U:O4'	2.19	0.42
24:BV:53:LYS:HE3	24:BV:55:GLU:OE2	2.19	0.42
7:AH:38:VAL:O	7:AH:42:GLU:HG2	2.19	0.42
23:DB:2705:A:H2'	23:DB:2706:A:O4'	2.19	0.42
1:AA:844:G:H2'	1:AA:845:A:H5''	2.01	0.42
23:DB:1027:A:C2	23:DB:2488:G:H5''	2.53	0.42
47:B0:11:LYS:HG3	47:B0:12:ARG:N	2.35	0.42
1:CA:626:G:H2'	1:CA:627:G:H8	1.83	0.42
1:AA:1273:C:H2'	1:AA:1274:A:O4'	2.19	0.42
23:BB:1270:C:H5''	23:BB:1271:G:O5'	2.19	0.42
23:DB:678:C:H2'	23:DB:679:C:C6	2.53	0.42
23:DB:1213:A:H62	23:DB:1236:G:H1'	1.83	0.42
6:AG:102:TRP:N	6:AG:102:TRP:CD1	2.86	0.42
23:DB:1526:C:O2'	23:DB:1527:G:H5'	2.19	0.42
23:DB:2479:U:H6	23:DB:2479:U:O5'	2.02	0.42
23:BB:647:G:H2'	23:BB:648:G:C8	2.55	0.42
23:BB:1370:C:H2'	23:BB:1371:G:O4'	2.18	0.42
1:CA:913:A:H4'	1:CA:914:A:H4'	2.01	0.42
23:DB:2686:G:H2'	23:DB:2687:U:O4'	2.19	0.42
50:B3:9:ALA:O	50:B3:13:PHE:HB3	2.19	0.42
44:BX:41:HIS:CD2	44:BX:41:HIS:H	2.36	0.42
41:DT:69:ARG:NH1	41:DT:69:ARG:HG2	2.34	0.42
4:AE:25:LYS:HE2	4:AE:25:LYS:C	2.39	0.42
35:BN:51:LEU:HA	35:BN:54:LEU:HD13	2.00	0.42
15:CP:18:GLN:HA	15:CP:38:PHE:HA	2.02	0.42
1:CA:138:G:O2'	1:CA:139:A:H5'	2.19	0.42
23:BB:2361:G:O2'	23:BB:2362:C:H5'	2.19	0.42
23:BB:1421:G:C2	23:BB:1422:G:C8	3.07	0.42
23:DB:2561:U:O3'	32:DK:40:LYS:HE2	2.19	0.42
23:DB:1098:A:HO2'	52:DI:4:VAL:C	2.21	0.42
30:BH:124:THR:HG22	30:BH:125:THR:N	2.35	0.42
34:BM:3:GLN:CG	34:BM:46:ILE:HB	2.43	0.42
20:CB:15:PHE:HB2	20:CB:16:GLY:H	1.65	0.42
1:CA:976:G:OP2	1:CA:1358:U:O2'	2.32	0.42
37:BP:47:ILE:HG22	37:BP:48:ALA:N	2.17	0.42
23:DB:2259:U:C6	23:DB:2427:C:C4	3.07	0.42
43:DW:67:LYS:CD	43:DW:69:GLU:H	2.33	0.42
25:BC:170:TYR:HA	25:BC:185:ALA:HB2	2.01	0.42
30:DH:35:LYS:HE2	30:DH:35:LYS:HB2	1.91	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DH:4:ILE:HD11	30:DH:37:VAL:CA	2.48	0.42
25:DC:163:ILE:HG12	25:DC:173:LEU:HD23	2.01	0.42
31:DJ:15:TRP:CB	31:DJ:139:VAL:HA	2.49	0.42
31:BJ:68:LYS:CA	31:BJ:71:ASP:OD1	2.65	0.42
43:BW:44:PHE:HB3	43:BW:76:ARG:CB	2.49	0.42
23:DB:533:G:N3	38:DQ:40:LYS:CG	2.82	0.42
38:DQ:44:TYR:O	38:DQ:48:ASP:N	2.51	0.42
38:DQ:52:ARG:HD3	38:DQ:53:LYS:HZ1	1.83	0.42
27:DE:112:LEU:O	27:DE:113:VAL:HB	2.20	0.42
23:BB:651:G:OP1	50:B3:16:THR:HB	2.20	0.42
50:B3:16:THR:CG2	50:B3:22:LYS:HG2	2.50	0.42
33:BL:58:TYR:N	33:BL:58:TYR:CD2	2.84	0.42
23:BB:970:U:H2'	23:BB:971:G:C8	2.55	0.42
47:B0:2:VAL:CG2	47:B0:3:GLN:H	2.33	0.42
23:BB:1225:G:C5'	39:BR:78:ARG:HH22	2.27	0.42
25:DC:245:THR:O	25:DC:246:PRO:C	2.57	0.42
23:BB:500:G:OP1	42:BU:40:LEU:HG	2.19	0.42
31:DJ:7:LYS:N	31:DJ:8:PRO:CD	2.82	0.42
35:BN:28:LEU:CD2	35:BN:113:ILE:HG21	2.49	0.42
34:DM:41:LEU:CD2	34:DM:46:ILE:HD11	2.49	0.42
43:BW:35:ILE:HG13	43:BW:36:ILE:N	2.33	0.42
26:DD:48:ILE:HG22	26:DD:49:GLN:H	1.80	0.42
33:DL:77:ILE:O	33:DL:110:VAL:O	2.37	0.42
33:DL:81:ASP:O	33:DL:85:VAL:HG12	2.19	0.42
23:BB:1674:G:N2	23:BB:1677:A:N1	2.68	0.42
23:BB:1453:A:H62	35:BN:72:ASP:CG	2.23	0.42
33:DL:63:LYS:CB	50:D3:26:ALA:HB2	2.47	0.42
23:DB:2393:U:C5	50:D3:30:HIS:HE1	2.37	0.42
50:D3:57:VAL:HG22	50:D3:57:VAL:O	2.19	0.42
24:DV:9:ARG:CZ	24:DV:20:LEU:HD11	2.50	0.42
26:BD:205:PRO:O	26:BD:206:ALA:HB2	2.19	0.42
45:DY:43:ILE:O	45:DY:47:ILE:HG13	2.20	0.42
1:CA:1306:A:C2'	1:CA:1307:U:H5'	2.49	0.42
8:CI:49:GLN:O	8:CI:53:LEU:HD23	2.19	0.42
5:AF:29:ILE:HG21	5:AF:64:VAL:CG1	2.50	0.42
1:AA:1422:G:P	32:BK:54:LYS:HZ1	2.43	0.42
1:CA:838:G:H2'	1:CA:839:C:O4'	2.20	0.42
38:DQ:57:ARG:NH2	38:DQ:92:LYS:HZ3	2.16	0.42
23:BB:748:G:OP2	40:BS:88:ARG:HD3	2.19	0.42
3:CD:159:GLU:O	3:CD:162:GLU:HG2	2.19	0.42
47:D0:27:LEU:O	47:D0:38:LEU:HD13	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DK:43:ILE:HG12	32:DK:52:VAL:CG1	2.46	0.42
30:DH:132:PHE:HE2	30:DH:134:VAL:HG22	1.84	0.42
23:BB:2811:G:H2'	23:BB:2812:G:C8	2.54	0.42
23:BB:2813:A:O2'	23:BB:2814:A:H5'	2.18	0.42
4:CE:105:ILE:HD12	4:CE:123:LEU:CD2	2.50	0.42
4:AE:109:ALA:CB	4:AE:135:VAL:HG23	2.47	0.42
20:CB:93:HIS:O	20:CB:94:ARG:C	2.57	0.42
2:CC:182:ASP:CB	2:CC:203:LYS:HE2	2.43	0.42
27:BE:53:THR:O	27:BE:55:SER:N	2.52	0.42
23:DB:1252:G:H21	38:DQ:32:ARG:CZ	2.32	0.42
19:CT:79:THR:O	19:CT:82:ILE:HG12	2.19	0.42
23:BB:1791:A:H1'	25:BC:206:LYS:HZ1	1.81	0.42
23:DB:2010:G:H5''	40:DS:42:LYS:HB3	2.00	0.42
2:CC:130:ARG:HD2	2:CC:130:ARG:HA	1.86	0.42
23:DB:2462:C:H2'	23:DB:2463:C:H6	1.84	0.42
23:BB:1804:C:P	25:BC:254:LYS:HG2	2.58	0.42
1:AA:492:C:C3'	1:AA:493:A:H5''	2.49	0.42
6:AG:37:THR:O	6:AG:41:ILE:HB	2.19	0.42
20:CB:61:SER:OG	20:CB:62:ARG:HD2	2.19	0.42
23:DB:2248:C:H3'	23:DB:2249:U:C6	2.55	0.42
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.84	0.42
1:AA:1073:U:C2	1:AA:1074:G:C8	3.08	0.42
23:DB:539:G:H2'	23:DB:540:C:H6	1.83	0.42
41:BT:64:LYS:HZ2	41:BT:79:ASP:HB2	1.85	0.42
37:BP:77:SER:N	37:BP:78:PRO:CD	2.73	0.42
23:DB:954:G:O2'	23:DB:2274:A:N1	2.44	0.42
37:DP:7:LEU:HA	37:DP:10:GLU:CD	2.39	0.42
1:CA:538:G:H2'	1:CA:539:A:H8	1.85	0.42
23:BB:1221:C:O2'	23:BB:1222:U:H5'	2.19	0.42
2:CC:172:VAL:O	2:CC:174:LEU:HD12	2.19	0.42
34:BM:86:LYS:HB3	34:BM:87:GLY:H	1.67	0.42
1:CA:1141:C:H2'	1:CA:1142:G:H8	1.83	0.42
36:DO:82:ALA:HB1	36:DO:87:ILE:HG21	2.01	0.42
2:CC:183:TYR:HA	2:CC:199:VAL:O	2.19	0.42
23:BB:1685:C:H2'	23:BB:1686:C:C6	2.54	0.42
23:DB:2570:G:O2'	23:DB:2571:U:H5'	2.20	0.42
23:DB:662:G:H5'	33:DL:26:GLY:H	1.83	0.42
23:DB:2821:A:OP2	26:DD:115:GLY:O	2.38	0.42
23:DB:1401:G:H2'	23:DB:1402:U:C6	2.54	0.42
23:BB:1401:G:H2'	23:BB:1402:U:C6	2.54	0.42
6:AG:90:VAL:HG23	6:AG:90:VAL:O	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1220:G:H2'	23:DB:1221:C:H6	1.83	0.42
23:BB:1011:G:P	38:BQ:76:SER:HG	2.42	0.42
23:BB:2705:A:H2'	23:BB:2706:A:O4'	2.19	0.42
39:BR:101:ILE:HB	39:BR:102:SER:H	1.69	0.42
42:BU:21:ARG:NH1	42:BU:21:ARG:HG2	2.33	0.42
52:BI:63:ASP:O	52:BI:65:SER:N	2.53	0.42
23:BB:1114:C:H2'	23:BB:1115:G:C8	2.55	0.42
1:AA:1178:G:N2	1:AA:1181:G:C8	2.87	0.42
14:AO:38:LEU:HB3	14:AO:42:PHE:CE1	2.55	0.42
1:AA:154:U:O2'	1:AA:155:A:H5'	2.20	0.42
23:BB:2559:C:O2'	23:BB:2560:A:H5'	2.19	0.42
1:CA:349:A:H2'	1:CA:350:G:C8	2.54	0.42
28:DF:50:ASP:C	28:DF:52:ALA:H	2.22	0.42
29:DG:57:TYR:O	29:DG:58:ALA:C	2.56	0.42
10:AK:62:ALA:O	10:AK:65:ALA:HB3	2.19	0.42
23:BB:1498:C:H2'	23:BB:1499:C:C6	2.54	0.42
5:CF:74:LEU:HD13	5:CF:74:LEU:C	2.39	0.42
1:CA:1394:A:H8	1:CA:1394:A:OP1	2.03	0.42
23:BB:312:G:C2	23:BB:313:G:C8	3.07	0.42
23:DB:2408:U:H2'	23:DB:2409:G:C8	2.54	0.42
23:DB:756:A:H2'	23:DB:757:G:O4'	2.20	0.42
23:DB:2082:A:N6	23:DB:2237:G:H1'	2.34	0.42
23:BB:1513:U:O2'	23:BB:1514:G:H5'	2.19	0.42
23:BB:1891:G:H2'	23:BB:1892:C:H6	1.84	0.42
23:BB:84:A:N6	23:BB:99:U:H5'	2.35	0.42
42:BU:70:ALA:O	42:BU:72:PHE:N	2.53	0.42
30:BH:90:LEU:HD13	30:BH:123:ARG:O	2.19	0.42
30:BH:89:LYS:HZ1	30:BH:90:LEU:HB2	1.85	0.42
34:BM:3:GLN:HE21	34:BM:3:GLN:HB2	1.67	0.42
37:BP:61:ARG:CB	37:BP:61:ARG:NH1	2.81	0.42
23:DB:2259:U:O2'	23:DB:2260:C:H5'	2.19	0.42
23:BB:693:A:H2'	23:BB:694:U:C6	2.54	0.42
35:DN:37:THR:CG2	35:DN:39:PRO:HD2	2.41	0.42
25:DC:107:LYS:CG	25:DC:194:VAL:HG11	2.50	0.42
25:DC:68:ARG:NE	25:DC:128:THR:HG23	2.34	0.42
25:DC:93:VAL:HG21	25:DC:103:ILE:HG13	2.00	0.42
31:DJ:135:GLN:HE21	31:DJ:138:GLN:N	2.14	0.42
31:BJ:124:VAL:O	31:BJ:125:TYR:HB2	2.18	0.42
23:BB:919:U:H6	23:BB:919:U:O5'	2.03	0.42
18:AS:35:ARG:HG2	18:AS:50:VAL:CG1	2.49	0.42
23:BB:299:A:N6	23:BB:322:A:O2'	2.49	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:156:ASN:CG	27:BE:157:LEU:H	2.23	0.42
42:DU:29:SER:O	42:DU:30:SER:HB2	2.19	0.42
33:BL:78:ARG:O	33:BL:78:ARG:NH1	2.53	0.42
32:BK:71:ARG:HH11	32:BK:71:ARG:HG2	1.84	0.42
46:BZ:2:LYS:HB2	46:BZ:3:LYS:H	1.69	0.42
32:BK:2:ILE:N	32:BK:33:ALA:N	2.68	0.42
23:BB:2463:C:O2'	23:BB:2464:G:H5'	2.19	0.42
23:DB:2723:C:H2'	23:DB:2724:U:O4'	2.20	0.42
13:AN:12:ARG:HH11	13:AN:60:ARG:HH12	1.64	0.42
36:DO:38:GLN:O	36:DO:40:ILE:HD13	2.18	0.42
36:DO:25:ARG:HH21	36:DO:94:ARG:NH1	2.17	0.42
31:DJ:35:ARG:HA	31:DJ:35:ARG:NE	2.35	0.42
31:BJ:12:LYS:O	31:BJ:13:ARG:HG3	2.19	0.42
31:BJ:45:THR:CB	38:BQ:63:ARG:HH22	2.16	0.42
38:BQ:63:ARG:HG3	38:BQ:64:ILE:N	2.33	0.42
39:BR:41:ILE:HD13	39:BR:43:ASN:HA	2.00	0.42
39:BR:51:VAL:HG13	39:BR:52:PRO:HD2	2.01	0.42
23:DB:372:G:N7	46:DZ:57:VAL:HG21	2.34	0.42
31:DJ:84:ILE:CD1	31:DJ:85:LYS:N	2.73	0.42
23:BB:2263:C:H4'	23:BB:2329:U:H4'	2.01	0.42
43:BW:36:ILE:HD12	43:BW:69:GLU:CD	2.39	0.42
27:BE:112:LEU:O	27:BE:116:ASP:N	2.52	0.42
51:B4:12:ARG:CD	51:B4:12:ARG:H	2.06	0.42
1:AA:1314:C:H5	18:AS:5:LYS:HZ3	1.63	0.42
23:BB:126:A:O5'	49:B2:19:ARG:HB3	2.19	0.42
23:DB:1266:G:O2'	23:DB:1267:U:OP2	2.38	0.42
27:BE:74:LYS:O	27:BE:75:SER:C	2.58	0.42
23:DB:2282:G:O2'	23:DB:2283:C:OP2	2.37	0.42
12:CM:21:ILE:O	12:CM:22:TYR:C	2.57	0.42
1:CA:1250:A:H5''	8:CI:68:GLY:HA2	2.01	0.42
1:CA:1252:A:H4'	1:CA:1369:C:H4'	2.01	0.42
8:CI:94:ARG:HG3	8:CI:98:ARG:NH2	2.33	0.42
31:DJ:61:LYS:HE2	31:DJ:69:ARG:HH22	1.84	0.42
23:DB:1189:A:H2'	23:DB:1190:G:H5'	2.02	0.42
21:CU:36:PHE:HB2	21:CU:39:LYS:CB	2.47	0.42
1:AA:1306:A:C2	1:AA:1332:A:N9	2.87	0.42
4:CE:10:LEU:HD12	4:CE:10:LEU:O	2.20	0.42
52:DI:129:GLU:O	52:DI:133:ARG:HG3	2.19	0.42
41:DT:11:LEU:HB2	41:DT:12:ARG:H	1.59	0.42
1:CA:1237:C:O4'	1:CA:1334:G:N2	2.50	0.42
5:CF:84:VAL:HG22	5:CF:85:ILE:H	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:15:G:O2'	4:AE:28:ARG:HD2	2.20	0.42
52:BI:21:PRO:HB2	52:BI:22:PRO:CD	2.44	0.42
23:DB:1829:A:H3'	23:DB:1830:C:C6	2.55	0.42
48:B1:51:ALA:HB3	48:B1:52:LYS:HD2	2.01	0.42
25:DC:241:LYS:HB3	25:DC:243:PRO:HD3	2.02	0.42
23:BB:1298:C:O2'	23:BB:1301:A:O2'	2.36	0.42
47:B0:26:SER:HB2	47:B0:38:LEU:CD1	2.46	0.42
1:CA:492:C:C3'	1:CA:493:A:H5''	2.50	0.42
25:BC:207:ALA:O	25:BC:208:GLY:C	2.57	0.42
23:BB:1566:A:C6	25:BC:213:ARG:CZ	3.02	0.42
9:CJ:66:GLU:HG2	9:CJ:67:ILE:N	2.34	0.42
48:B1:31:GLU:C	48:B1:32:LYS:HZ2	2.22	0.42
23:BB:1173:U:H2'	23:BB:1174:U:H4'	2.00	0.42
28:DF:92:GLY:O	28:DF:95:MET:HG2	2.19	0.42
6:AG:45:ALA:HB1	6:AG:120:ALA:HB2	2.00	0.42
23:DB:1592:C:H2'	23:DB:1593:A:H8	1.84	0.42
49:D2:21:ARG:HG3	49:D2:31:LEU:CD1	2.46	0.42
20:CB:86:CYS:HB3	20:CB:88:GLN:CG	2.49	0.42
33:BL:17:LYS:HD3	33:BL:17:LYS:HA	1.92	0.42
1:AA:1065:U:C1'	1:AA:1066:C:OP2	2.66	0.42
3:AD:191:SER:O	3:AD:192:ALA:CB	2.68	0.42
52:BI:92:PRO:C	52:BI:94:LYS:H	2.23	0.42
1:AA:123:U:H2'	1:AA:124:C:C6	2.54	0.42
23:DB:222:A:N1	23:DB:233:A:H5''	2.35	0.42
1:AA:913:A:H4'	1:AA:914:A:O5'	2.19	0.42
5:CF:15:SER:HA	5:CF:18:VAL:HG23	2.01	0.42
49:D2:33:ARG:O	49:D2:37:LYS:HB3	2.20	0.42
23:DB:1294:U:C4	23:DB:1295:C:C5	3.07	0.42
27:DE:126:VAL:HG21	27:DE:132:LYS:HZ2	1.82	0.42
1:CA:167:A:O2'	1:CA:168:G:H5'	2.19	0.42
1:CA:1164:G:H2'	1:CA:1165:U:H6	1.85	0.42
45:BY:22:THR:O	45:BY:26:LEU:N	2.53	0.42
1:CA:113:G:O4'	1:CA:354:G:H4'	2.19	0.42
23:BB:1770:G:O2'	23:BB:1771:C:H5'	2.19	0.42
6:CG:49:LEU:C	6:CG:51:GLN:N	2.73	0.42
37:DP:105:LYS:HE2	37:DP:105:LYS:HB3	1.81	0.42
1:AA:329:A:H5'	1:AA:329:A:H8	1.84	0.42
1:AA:128:G:O2'	1:AA:129:A:H5'	2.18	0.42
23:DB:1290:C:O2'	23:DB:1291:C:H5'	2.19	0.42
8:CI:19:PHE:O	8:CI:62:LEU:HA	2.19	0.42
1:AA:442:G:H2'	1:AA:443:C:H6	1.84	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BE:68:ALA:O	27:BE:69:ARG:HB3	2.20	0.42
23:BB:679:C:O2'	23:BB:680:C:H5'	2.19	0.42
38:BQ:89:ILE:O	38:BQ:89:ILE:HG23	2.20	0.42
3:AD:173:ASP:HB3	3:AD:178:GLU:HB3	2.01	0.42
1:AA:343:U:O2'	1:AA:344:A:H2'	2.20	0.42
23:BB:453:A:H4'	23:BB:472:A:H62	1.84	0.42
1:CA:64:G:H4'	1:CA:65:A:H5''	2.01	0.42
41:DT:69:ARG:HH11	41:DT:69:ARG:HG2	1.85	0.42
23:DB:2153:C:H2'	23:DB:2154:A:H8	1.84	0.42
23:BB:1266:G:O2'	23:BB:1267:U:OP2	2.38	0.42
29:BG:99:GLY:C	29:BG:101:VAL:H	2.22	0.42
1:CA:6:G:H4'	1:CA:298:A:H4'	2.01	0.42
1:AA:138:G:O2'	1:AA:139:A:H5'	2.19	0.42
23:DB:1314:C:H2'	23:DB:1314:C:O2	2.18	0.42
26:DD:168:GLU:H	26:DD:168:GLU:CD	2.23	0.42
23:DB:62:U:H3'	23:DB:63:A:C8	2.54	0.42
11:CL:66:ILE:HG21	11:CL:71:HIS:HB3	2.00	0.42
23:BB:1604:C:H5''	55:BB:3376:HOH:O	2.18	0.42
32:DK:78:ARG:CG	37:DP:72:VAL:HG21	2.18	0.42
49:D2:39:ARG:HD2	49:D2:39:ARG:N	2.35	0.42
32:BK:76:VAL:HG12	32:BK:77:ILE:N	2.35	0.42
47:D0:42:ILE:HG21	47:D0:45:ASP:OD2	2.19	0.42
31:BJ:93:ILE:HD13	31:BJ:100:VAL:HG11	2.01	0.42
36:BO:41:ALA:CB	36:BO:45:SER:HB3	2.49	0.42
23:DB:975:A:H2'	23:DB:975:A:N3	2.35	0.42
38:DQ:17:LEU:HD12	38:DQ:17:LEU:HA	1.89	0.42
38:DQ:50:ARG:NH1	38:DQ:53:LYS:HE3	2.34	0.42
30:BH:2:GLN:HE22	30:BH:19:VAL:C	2.23	0.42
23:BB:649:G:H2'	23:BB:650:C:C6	2.55	0.42
23:BB:2080:A:OP1	46:BZ:18:CYS:HB2	2.20	0.42
32:BK:38:ILE:HD13	32:BK:61:VAL:HG12	2.00	0.42
34:BM:11:LYS:HD3	34:BM:11:LYS:N	2.34	0.42
24:BV:80:HIS:HB2	24:BV:85:LYS:HG3	2.01	0.42
16:AQ:17:GLU:O	16:AQ:18:LYS:HB2	2.18	0.42
16:AQ:56:ASP:CG	16:AQ:80:LYS:HA	2.39	0.42
46:DZ:39:LYS:HD3	46:DZ:61:ASN:CG	2.39	0.42
25:DC:253:GLY:H	25:DC:254:LYS:HE3	1.83	0.42
25:DC:265:PHE:O	25:DC:266:ILE:HG12	2.20	0.42
36:DO:94:ARG:HG2	36:DO:94:ARG:HH11	1.84	0.42
23:BB:1250:G:C5'	38:BQ:5:ARG:HG2	2.49	0.42
39:DR:65:ALA:N	39:DR:100:GLY:HA2	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:31:PRO:O	25:BC:32:LEU:O	2.37	0.42
31:BJ:3:THR:HG21	38:BQ:93:ILE:CG1	2.40	0.42
20:CB:99:MET:CA	20:CB:106:VAL:HG21	2.47	0.42
1:AA:1299:A:N6	1:AA:1302:C:H5	2.15	0.42
24:BV:6:ALA:HB1	24:BV:41:GLU:O	2.19	0.42
30:DH:103:VAL:O	30:DH:106:ALA:HB3	2.20	0.42
30:DH:129:GLU:HG3	30:DH:129:GLU:H	1.57	0.42
1:CA:1217:C:O2'	1:CA:1218:C:H5'	2.20	0.42
22:DA:45:A:O4'	28:DF:91:ARG:CZ	2.67	0.42
33:DL:124:GLY:H	33:DL:142:ILE:HG13	1.85	0.42
41:BT:15:HIS:HB2	41:BT:31:VAL:CG2	2.50	0.42
47:D0:11:LYS:HA	47:D0:11:LYS:HD3	1.90	0.42
32:BK:80:ASP:OD1	37:BP:71:ARG:HG2	2.19	0.42
36:DO:67:ASN:HD22	36:DO:68:LYS:H	1.68	0.42
3:CD:10:LEU:HD22	3:CD:62:ARG:CZ	2.49	0.42
23:DB:2572:A:OP2	26:DD:149:ASN:HB3	2.19	0.42
23:DB:361:G:H2'	23:DB:362:A:C8	2.51	0.42
23:DB:2733:A:O5'	23:DB:2733:A:H8	2.03	0.42
41:DT:6:ARG:O	41:DT:8:LEU:N	2.52	0.42
26:BD:1:MET:HB3	26:BD:84:LEU:HB2	2.00	0.42
1:AA:1490:U:H3'	1:AA:1491:G:H8	1.85	0.42
31:DJ:69:ARG:NH1	31:DJ:69:ARG:HG3	2.31	0.42
23:BB:723:C:H2'	23:BB:724:U:C6	2.55	0.42
1:AA:838:G:H2'	1:AA:839:C:O4'	2.20	0.42
3:CD:33:ILE:HG12	3:CD:34:GLU:N	2.34	0.42
15:CP:54:LEU:CD1	15:CP:80:LYS:HG2	2.50	0.42
38:DQ:94:LEU:C	38:DQ:94:LEU:HD12	2.39	0.42
38:DQ:94:LEU:O	38:DQ:98:ALA:N	2.49	0.42
2:AC:54:ILE:HG23	2:AC:54:ILE:O	2.19	0.42
29:DG:171:LYS:HZ3	29:DG:174:LYS:HD2	1.85	0.42
20:CB:163:ILE:HD11	20:CB:209:VAL:HG11	2.01	0.42
32:DK:15:GLY:CA	32:DK:52:VAL:HB	2.49	0.42
23:DB:1667:G:OP1	32:DK:6:THR:HA	2.20	0.42
23:DB:2267:A:H3'	23:DB:2267:A:N3	2.34	0.42
7:CH:72:GLU:N	7:CH:129:ALA:HB2	2.27	0.42
23:DB:1298:C:O2'	23:DB:1301:A:O2'	2.36	0.42
29:BG:51:PHE:CD2	29:BG:64:ALA:HA	2.54	0.42
47:B0:8:THR:HG23	47:B0:9:ARG:N	2.26	0.42
23:BB:64:A:H2'	23:BB:65:U:H6	1.80	0.42
4:CE:40:ASP:CG	4:CE:44:ARG:HB2	2.39	0.42
23:BB:2840:C:C2	23:BB:2841:C:C5	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DU:42:LYS:H	42:DU:57:ILE:CG2	2.32	0.42
27:BE:195:GLN:H	27:BE:199:MET:CA	2.28	0.42
2:CC:128:MET:SD	2:CC:132:ALA:N	2.92	0.42
23:DB:448:U:H3'	27:DE:79:ARG:CZ	2.49	0.42
8:AI:24:ASN:HA	8:AI:26:LYS:NZ	2.34	0.42
42:BU:54:PRO:CG	42:BU:55:GLY:H	2.30	0.42
29:DG:124:CYS:C	29:DG:126:THR:H	2.21	0.42
29:DG:124:CYS:HB3	29:DG:130:ILE:CD1	2.49	0.42
29:DG:16:VAL:HG12	29:DG:17:LYS:H	1.84	0.42
30:DH:54:LEU:HD23	30:DH:57:LYS:CD	2.48	0.42
4:CE:52:ALA:HB3	4:CE:58:ALA:HB2	2.01	0.42
10:AK:52:ARG:O	10:AK:54:SER:N	2.51	0.42
9:CJ:18:ILE:HD13	9:CJ:72:ARG:HG2	2.00	0.42
1:CA:997:U:H2'	1:CA:998:C:H6	1.79	0.42
25:BC:17:LYS:HZ2	25:BC:17:LYS:N	2.17	0.42
23:DB:1683:U:O2'	23:DB:1684:G:H5'	2.19	0.42
23:BB:2787:C:O2'	23:BB:2788:C:H5'	2.19	0.42
29:BG:104:LEU:HB3	29:BG:106:LEU:CD1	2.49	0.42
1:AA:302:G:H2'	1:AA:303:A:H8	1.83	0.42
23:BB:1047:G:HO2'	23:BB:1048:A:P	2.42	0.42
52:DI:37:PHE:HB2	52:DI:66:PHE:CE2	2.55	0.42
24:BV:2:PHE:HE2	24:BV:55:GLU:HB3	1.84	0.42
23:BB:63:A:H8	23:BB:63:A:OP2	2.03	0.42
1:CA:738:C:H2'	1:CA:739:C:C6	2.55	0.42
2:AC:120:THR:HA	2:AC:123:LEU:HD12	2.01	0.42
23:DB:2047:C:H2'	23:DB:2048:G:C8	2.52	0.42
1:AA:868:C:H2'	1:AA:869:G:O4'	2.20	0.42
22:BA:54:G:H2'	22:BA:55:U:H6	1.83	0.42
36:BO:59:ALA:CB	36:BO:63:LYS:HE2	2.50	0.42
23:DB:1039:A:H2'	23:DB:1040:A:C8	2.53	0.42
6:CG:60:ALA:O	6:CG:64:ALA:HB3	2.19	0.42
23:DB:2543:G:H2'	23:DB:2544:G:O4'	2.20	0.42
14:CO:63:ARG:NH2	14:CO:87:ARG:NH1	2.67	0.42
9:AJ:48:ARG:HB3	9:AJ:66:GLU:HB3	2.02	0.42
23:BB:2223:G:C2'	23:BB:2224:G:H5'	2.50	0.42
1:AA:41:G:H2'	1:AA:42:G:C8	2.54	0.42
1:CA:926:G:H5'	1:CA:927:G:C5'	2.49	0.42
23:BB:2286:G:H3'	23:BB:2286:G:N3	2.34	0.42
1:CA:75:G:H2'	1:CA:76:G:O4'	2.19	0.42
20:AB:133:ALA:O	20:AB:137:THR:HG23	2.20	0.42
18:CS:73:PHE:CD1	18:CS:73:PHE:N	2.88	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:DC:175:LEU:H	25:DC:175:LEU:HG	1.67	0.42
23:DB:1765:U:O2'	23:DB:1766:G:H5'	2.19	0.42
37:DP:46:VAL:HB	37:DP:65:ASN:OD1	2.19	0.42
42:BU:33:VAL:HG12	42:BU:35:VAL:HG23	2.02	0.42
42:BU:90:LYS:HD2	42:BU:91:LYS:N	2.34	0.42
51:D4:24:ARG:HE	51:D4:37:GLN:HA	1.84	0.42
26:BD:175:LEU:CD2	26:BD:190:LYS:HB3	2.50	0.42
23:DB:2425:A:H4'	23:DB:2426:A:OP2	2.19	0.42
26:DD:46:ARG:N	26:DD:82:PHE:HA	2.35	0.42
31:BJ:132:HIS:C	31:BJ:134:ALA:H	2.22	0.42
1:AA:958:A:C4'	18:AS:54:ARG:HH21	2.33	0.42
27:DE:175:ILE:CG2	27:DE:180:LEU:HD11	2.49	0.42
33:BL:78:ARG:NH1	33:BL:80:SER:N	2.68	0.42
46:BZ:15:SER:HB3	46:BZ:23:LYS:HE2	2.02	0.42
34:BM:69:PRO:HA	34:BM:93:VAL:HB	2.01	0.42
40:BS:50:VAL:HG21	40:BS:103:ILE:CG2	2.50	0.42
23:BB:1156:A:C5	38:BQ:47:ARG:NH1	2.88	0.42
5:CF:29:ILE:HG21	5:CF:64:VAL:CG1	2.49	0.42
12:AM:10:ASP:HA	12:AM:44:ILE:HD11	2.01	0.42
47:B0:36:LYS:HA	47:B0:41:HIS:C	2.40	0.42
40:BS:29:VAL:HG21	40:BS:70:LYS:N	2.35	0.42
26:DD:7:LYS:HA	26:DD:26:VAL:HA	2.01	0.42
1:CA:1014:A:H2'	1:CA:1015:G:C8	2.54	0.42
37:DP:100:ARG:HB3	37:DP:100:ARG:NH1	2.14	0.42
23:BB:2723:C:H2'	23:BB:2724:U:O4'	2.20	0.42
23:DB:2282:G:H5''	23:DB:2283:C:O4'	2.20	0.42
44:DX:16:THR:HG23	44:DX:21:LEU:HD12	2.00	0.42
23:DB:164:C:H2'	23:DB:165:A:H5'	2.01	0.42
29:DG:4:ALA:HA	29:DG:68:ARG:HH22	1.85	0.42
28:DF:65:LEU:O	28:DF:66:ILE:HB	2.20	0.42
31:DJ:74:TYR:OH	31:DJ:100:VAL:HG23	2.20	0.42
6:AG:20:GLU:O	6:AG:23:ALA:HB3	2.19	0.42
35:BN:13:ASN:C	35:BN:15:SER:H	2.23	0.42
35:BN:12:ARG:HD3	35:BN:20:MET:CE	2.50	0.42
23:BB:775:G:C5	23:BB:794:A:C8	3.08	0.42
23:DB:795:C:H2'	23:DB:796:C:C6	2.55	0.42
12:AM:23:GLY:CA	12:AM:64:VAL:HG13	2.43	0.42
23:DB:249:C:O2'	50:D3:7:ARG:NE	2.52	0.42
29:DG:36:LEU:HB2	29:DG:40:VAL:HG11	2.02	0.42
29:DG:43:LYS:HB3	29:DG:44:HIS:H	1.71	0.42
12:CM:70:ARG:NH1	28:DF:135:ILE:HD13	2.35	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1432:G:O2'	1:AA:1468:A:N6	2.50	0.42
23:DB:1773:A:H2'	23:DB:1774:C:O4'	2.19	0.42
25:DC:8:THR:O	25:DC:10:PRO:HD3	2.20	0.42
25:DC:21:PRO:N	25:DC:202:ARG:HH11	2.18	0.42
25:DC:222:THR:OG1	25:DC:223:ALA:N	2.53	0.42
23:BB:26:G:C2'	23:BB:27:G:O4'	2.67	0.42
23:BB:2347:C:H4'	23:BB:2347:C:OP1	2.19	0.42
1:AA:1447:A:H5'	1:AA:1448:C:H5	1.85	0.42
1:CA:429:U:H4'	1:CA:430:A:O5'	2.16	0.42
52:DI:121:ILE:HD11	52:DI:122:GLU:OE2	2.20	0.42
1:AA:278:G:H21	1:AA:279:A:N6	2.10	0.42
25:DC:110:LYS:HE3	25:DC:110:LYS:CA	2.49	0.42
23:BB:1841:U:C2	23:BB:1842:G:C8	3.07	0.42
23:DB:1029:A:H3'	23:DB:1030:C:C6	2.53	0.42
23:BB:181:A:O2'	23:BB:182:A:H5'	2.19	0.42
1:AA:1521:C:H2'	1:AA:1522:U:H6	1.84	0.42
10:AK:70:ALA:HA	10:AK:74:LYS:HD3	2.01	0.42
23:DB:1372:U:H2'	23:DB:1373:A:C8	2.55	0.42
12:CM:78:ARG:HD2	12:CM:79:LEU:N	2.35	0.42
28:DF:111:ARG:HG2	28:DF:111:ARG:HH11	1.85	0.42
16:AQ:30:HIS:N	16:AQ:35:LYS:H	2.17	0.42
1:CA:538:G:H2'	1:CA:539:A:C8	2.54	0.42
9:AJ:25:ILE:HG23	9:AJ:29:ALA:CB	2.47	0.42
23:DB:906:U:H4'	34:DM:26:VAL:CG1	2.49	0.42
1:CA:1200:C:OP1	1:CA:1201:A:H3'	2.20	0.42
11:AL:43:LYS:N	11:AL:44:PRO:CD	2.81	0.42
23:BB:1713:A:N6	23:BB:1745:A:H61	2.18	0.42
1:CA:404:G:H2'	1:CA:405:U:H6	1.85	0.42
16:AQ:7:LEU:HB2	16:AQ:60:ILE:HG12	2.02	0.42
2:CC:110:LEU:HD13	2:CC:143:LEU:CD2	2.50	0.42
1:CA:1082:A:H2'	1:CA:1083:U:O4'	2.20	0.42
1:AA:529:G:O6	11:AL:45:ASN:HA	2.19	0.42
1:AA:687:A:C2	1:AA:704:A:C6	3.07	0.42
23:BB:1637:A:H5'	23:BB:1760:C:O2'	2.20	0.42
23:DB:506:G:H1'	23:DB:507:A:C8	2.54	0.42
17:AR:19:GLU:C	17:AR:21:ASP:H	2.22	0.42
17:AR:23:LYS:C	17:AR:25:ILE:H	2.22	0.42
23:BB:2686:G:H2'	23:BB:2687:U:C6	2.54	0.42
15:CP:26:ASN:ND2	15:CP:31:ARG:HB3	2.34	0.42
24:DV:23:ALA:O	24:DV:24:ASN:HB2	2.19	0.42
52:DI:10:LEU:C	52:DI:10:LEU:HD12	2.39	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:686:U:O2'	49:D2:5:PHE:O	2.34	0.42
23:DB:2135:A:N3	23:DB:2135:A:H2'	2.35	0.42
15:CP:10:GLY:HA3	15:CP:15:PRO:HA	2.01	0.42
3:CD:195:ASN:HB2	3:CD:198:LEU:HD12	2.02	0.42
1:CA:69:G:H2'	1:CA:70:U:C6	2.55	0.42
23:BB:678:C:H2'	23:BB:679:C:C6	2.53	0.42
1:CA:109:A:N1	1:CA:326:G:C6	2.88	0.42
14:CO:87:ARG:O	14:CO:87:ARG:HG3	2.20	0.42
25:DC:42:ARG:HE	25:DC:43:ASN:H	1.68	0.42
1:AA:512:U:O2'	1:AA:513:C:H5'	2.19	0.42
20:AB:15:PHE:HD1	20:AB:16:GLY:N	2.18	0.42
1:AA:908:A:O2'	1:AA:909:A:H5'	2.19	0.42
7:CH:65:PHE:CD2	7:CH:66:GLN:HG2	2.55	0.42
33:BL:34:GLY:O	33:BL:35:HIS:C	2.57	0.42
1:CA:41:G:H2'	1:CA:42:G:C8	2.54	0.42
23:BB:1068:G:C6	23:BB:1069:A:N6	2.87	0.42
50:D3:44:ARG:HG2	50:D3:45:PRO:HD2	2.02	0.42
1:CA:896:C:O2'	1:CA:897:C:H5'	2.19	0.42
44:DX:37:LEU:HG	44:DX:38:GLN:N	2.35	0.42
7:AH:83:ARG:NH1	7:AH:123:GLU:OE1	2.53	0.42
23:DB:2540:C:O2'	23:DB:2541:A:H5'	2.20	0.42
35:DN:67:PHE:O	35:DN:71:ARG:HA	2.20	0.42
40:BS:82:MET:HB2	40:BS:98:LYS:CG	2.50	0.42
23:DB:647:G:H2'	23:DB:648:G:C8	2.55	0.42
38:DQ:77:LYS:O	38:DQ:80:ASN:HB3	2.19	0.42
39:BR:21:ARG:HH11	39:BR:21:ARG:HG2	1.84	0.42
23:DB:982:C:O2	23:DB:982:C:H2'	2.20	0.42
23:BB:1403:A:H2'	23:BB:1404:C:C6	2.54	0.42
23:DB:1264:A:H5'	47:D0:7:PRO:HG3	2.01	0.42
23:BB:2540:C:O2'	23:BB:2541:A:H5'	2.20	0.42
42:DU:64:ILE:HG22	42:DU:64:ILE:O	2.19	0.42
42:BU:10:VAL:HG11	42:BU:25:LYS:HZ3	1.84	0.42
27:BE:43:THR:HG23	27:BE:44:ARG:CZ	2.50	0.42
23:BB:2728:U:H5'	32:BK:70:ARG:NH2	2.34	0.42
37:BP:18:SER:HB2	37:BP:87:ARG:CZ	2.50	0.42
23:DB:2365:G:H4'	43:DW:65:LYS:CD	2.49	0.42
23:BB:159:G:O2'	23:BB:160:A:H5'	2.20	0.42
47:D0:28:SER:HB3	47:D0:36:LYS:O	2.19	0.42
38:DQ:52:ARG:HH11	38:DQ:52:ARG:CB	2.32	0.42
23:BB:319:G:H2'	23:BB:320:A:C8	2.55	0.42
30:BH:3:VAL:HG22	30:BH:21:VAL:CG1	2.45	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:340:A:O2'	23:DB:341:C:H5'	2.20	0.42
27:DE:150:THR:HG23	27:DE:167:VAL:HG11	2.02	0.42
23:BB:651:G:C5'	50:B3:17:GLY:HA3	2.50	0.42
33:BL:69:ARG:HG3	33:BL:69:ARG:O	2.19	0.42
23:DB:396:G:O2'	23:DB:397:U:H5'	2.20	0.42
23:BB:2019:A:C6	23:BB:2020:A:N7	2.88	0.42
33:BL:27:LEU:C	33:BL:29:LYS:N	2.70	0.42
23:BB:1156:A:H62	38:BQ:47:ARG:HD3	1.85	0.42
41:DT:31:VAL:HG23	41:DT:83:ALA:O	2.20	0.42
26:BD:170:VAL:O	26:BD:171:THR:HB	2.19	0.42
23:DB:848:C:H2'	23:DB:849:A:H8	1.84	0.42
31:BJ:35:ARG:HH21	31:BJ:40:HIS:H	1.66	0.42
38:BQ:108:LEU:HD22	39:BR:52:PRO:HA	2.00	0.42
3:CD:142:VAL:HG22	3:CD:179:GLY:HA3	2.00	0.42
24:BV:4:ILE:N	24:BV:62:THR:O	2.52	0.42
49:B2:13:ASN:CB	49:B2:18:PHE:HD2	2.29	0.42
22:DA:49:C:C5'	36:DO:101:GLY:HA3	2.50	0.42
12:CM:1:ALA:O	12:CM:3:ILE:HG13	2.19	0.42
40:DS:28:LYS:O	40:DS:29:VAL:HB	2.20	0.42
23:DB:2394:C:P	33:DL:63:LYS:HD2	2.60	0.42
27:BE:77:ILE:HB	27:BE:78:TRP:CE3	2.54	0.42
50:D3:37:THR:HA	50:D3:40:LYS:HD3	2.02	0.42
25:BC:225:ASN:N	25:BC:226:PRO:HD3	2.35	0.42
25:BC:244:VAL:O	25:BC:245:THR:C	2.58	0.42
23:DB:2840:C:C2	23:DB:2841:C:C5	3.07	0.42
11:CL:23:LEU:C	11:CL:25:ALA:N	2.72	0.42
34:DM:31:PHE:O	34:DM:102:LEU:HA	2.20	0.42
23:DB:929:U:O2	45:DY:25:GLY:HA2	2.20	0.42
1:AA:1111:A:H2	2:AC:176:THR:HG23	1.85	0.42
42:BU:84:PHE:HD2	42:BU:87:GLU:HB2	1.84	0.42
23:BB:724:U:H2'	23:BB:725:G:O4'	2.19	0.42
6:AG:14:ASP:O	6:AG:18:GLY:HA2	2.19	0.42
33:DL:118:THR:HG21	33:DL:137:ALA:HB3	2.00	0.42
23:DB:978:G:O4'	23:DB:1001:A:H2	2.03	0.42
52:DI:100:ILE:HG23	52:DI:104:GLN:OE1	2.20	0.42
2:AC:84:GLU:HA	2:AC:87:ARG:NH2	2.35	0.42
1:CA:234:C:H2'	1:CA:235:C:H6	1.84	0.42
29:DG:10:VAL:N	29:DG:11:PRO:CD	2.83	0.42
48:D1:9:LYS:HA	48:D1:24:LYS:HB2	2.02	0.42
22:BA:50:A:H5''	36:BO:68:LYS:CG	2.49	0.42
1:AA:806:C:O2'	1:AA:807:A:H5'	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1080:A:H4'	52:DI:126:ARG:CD	2.50	0.42
1:CA:939:G:H2'	1:CA:940:C:C6	2.54	0.42
1:CA:939:G:C5'	6:CG:101:ARG:HH22	2.29	0.42
48:B1:7:LYS:HG3	48:B1:7:LYS:O	2.20	0.42
46:DZ:36:VAL:HG12	46:DZ:42:PRO:HB2	2.01	0.42
22:DA:38:C:H2'	22:DA:39:A:O4'	2.18	0.42
16:CQ:7:LEU:O	16:CQ:59:GLU:HA	2.19	0.42
1:AA:545:C:H5''	3:AD:68:GLU:HG2	2.00	0.42
23:DB:2065:C:H1'	23:DB:2449:U:O2	2.20	0.42
23:DB:1410:G:H2'	23:DB:1411:U:H6	1.77	0.42
23:BB:1791:A:C2	23:BB:1829:A:O4'	2.73	0.42
23:BB:1616:A:H4'	23:BB:1617:C:OP2	2.19	0.42
23:DB:414:C:H1'	23:DB:1864:U:H1'	2.01	0.42
25:BC:251:THR:O	25:BC:252:LYS:HB2	2.19	0.42
23:BB:2228:G:OP1	25:BC:257:ARG:HB2	2.20	0.42
1:AA:734:G:O2'	17:AR:59:LYS:HD3	2.19	0.42
23:DB:2080:A:H5'	46:DZ:17:SER:HB2	2.00	0.42
24:BV:66:ASP:O	24:BV:66:ASP:OD1	2.37	0.42
23:DB:2276:G:N7	43:DW:11:ASN:ND2	2.66	0.42
1:AA:1389:C:H2'	1:AA:1390:U:C6	2.55	0.42
34:BM:17:ASN:HB3	34:BM:18:ARG:H	1.49	0.42
1:AA:162:A:H2'	1:AA:163:C:O4'	2.20	0.42
25:BC:16:VAL:C	25:BC:17:LYS:HD2	2.40	0.42
2:CC:54:ILE:O	2:CC:54:ILE:HG23	2.20	0.42
23:BB:2543:G:H2'	23:BB:2544:G:O4'	2.20	0.42
15:AP:1:MET:H3	15:AP:24:SER:HB3	1.82	0.42
23:DB:1254:A:C6	27:DE:77:ILE:HD12	2.55	0.42
23:DB:607:U:C4	23:DB:620:G:O4'	2.73	0.42
23:DB:2341:G:H2'	23:DB:2342:C:H6	1.84	0.42
23:BB:948:C:H2'	23:BB:949:G:C8	2.53	0.42
1:CA:393:A:O2'	1:CA:394:G:H5'	2.20	0.42
20:AB:20:ARG:HG3	20:AB:20:ARG:NH1	2.33	0.42
23:BB:1987:A:H2'	23:BB:1988:G:C8	2.54	0.42
2:CC:33:ASP:O	2:CC:37:LYS:HG3	2.19	0.42
1:CA:489:C:H2'	1:CA:490:C:C6	2.54	0.42
33:DL:14:LYS:CD	33:DL:15:ALA:N	2.83	0.42
23:DB:1268:A:H2'	23:DB:1269:A:H8	1.85	0.42
23:BB:1255:U:C2'	27:BE:67:ARG:HB3	2.50	0.42
23:BB:1322:A:C5	23:BB:1323:C:C5	3.08	0.42
9:CJ:68:ARG:HD3	9:CJ:70:HIS:NE2	2.35	0.42
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2183:A:H8	23:DB:2183:A:O5'	2.02	0.42
1:CA:925:G:C2	1:CA:927:G:C8	3.08	0.42
23:DB:748:G:O5'	40:DS:89:ALA:HB2	2.20	0.42
1:AA:829:G:H4'	20:AB:24:PRO:HG3	2.02	0.42
1:AA:896:C:O2'	1:AA:897:C:H5'	2.19	0.42
23:BB:1390:U:O2'	23:BB:1391:U:H5'	2.20	0.42
1:AA:1286:U:O5'	1:AA:1286:U:N1	2.52	0.42
23:DB:587:C:H5'	33:DL:29:LYS:HZ2	1.84	0.42
23:BB:100:U:O2'	23:BB:101:A:O5'	2.38	0.42
42:BU:25:LYS:HA	42:BU:35:VAL:N	2.29	0.42
25:BC:159:THR:C	25:BC:160:TYR:HD2	2.23	0.42
25:BC:191:LEU:HD13	25:BC:191:LEU:O	2.20	0.42
30:DH:8:LYS:HD2	30:DH:14:SER:HA	2.02	0.42
47:D0:50:GLY:O	47:D0:51:ARG:C	2.57	0.42
35:DN:34:ILE:HG22	35:DN:35:LYS:N	2.28	0.42
31:BJ:120:ARG:HD3	31:BJ:120:ARG:O	2.20	0.42
43:BW:54:ARG:CZ	43:BW:54:ARG:HB2	2.50	0.42
23:DB:2617:U:C4	23:DB:2618:G:N7	2.87	0.42
18:AS:47:THR:HA	18:AS:59:VAL:O	2.20	0.42
20:AB:53:LEU:HB3	20:AB:219:THR:HG21	2.02	0.42
23:DB:86:G:P	42:DU:28:LEU:HD22	2.60	0.42
30:BH:6:LEU:H	30:BH:16:GLY:N	2.17	0.42
32:BK:119:ALA:N	32:BK:120:PRO:CD	2.82	0.42
32:BK:24:VAL:HG22	32:BK:39:ILE:HD12	2.01	0.42
34:BM:43:ALA:C	34:BM:45:GLN:H	2.23	0.42
24:BV:44:HIS:CE1	24:BV:85:LYS:HB2	2.55	0.42
23:BB:2054:A:OP1	23:BB:2055:C:H4'	2.20	0.42
26:DD:118:PHE:CA	26:DD:164:GLN:HG2	2.50	0.42
25:DC:179:GLU:OE2	25:DC:266:ILE:HA	2.19	0.42
41:DT:66:LYS:HB3	41:DT:66:LYS:NZ	2.35	0.42
42:BU:62:ALA:O	42:BU:63:ALA:C	2.58	0.42
12:AM:14:ALA:CB	12:AM:33:LEU:HD11	2.50	0.42
44:BX:29:ARG:HG2	44:BX:29:ARG:O	2.20	0.42
27:BE:145:ASP:C	27:BE:147:LEU:N	2.71	0.42
3:AD:119:HIS:C	3:AD:121:ALA:H	2.22	0.42
26:DD:199:SER:O	26:DD:201:LEU:HD13	2.20	0.42
26:DD:77:ARG:NH2	26:DD:79:LEU:HB2	2.14	0.42
33:BL:94:THR:HG23	33:BL:95:LEU:N	2.34	0.42
41:BT:6:ARG:HB2	41:BT:6:ARG:HE	1.57	0.42
40:DS:68:ASP:C	40:DS:69:LEU:HD22	2.40	0.42
23:DB:357:C:H2'	23:DB:358:U:C6	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DD:122:VAL:HB	26:DD:141:ARG:NH1	2.35	0.42
26:DD:156:PHE:CG	31:DJ:81:ILE:HG21	2.54	0.42
23:BB:2733:A:O5'	23:BB:2733:A:H8	2.03	0.42
23:BB:2733:A:N1	26:BD:209:ALA:O	2.53	0.42
23:BB:45:G:H5'	23:BB:46:G:OP1	2.19	0.42
23:BB:46:G:H2'	23:BB:47:C:C6	2.55	0.42
26:BD:29:VAL:HG23	26:BD:51:THR:CG2	2.50	0.42
29:DG:3:VAL:CG2	29:DG:4:ALA:N	2.83	0.42
34:DM:33:LEU:H	34:DM:101:VAL:HB	1.85	0.42
39:DR:46:GLU:HB3	39:DR:47:VAL:H	1.63	0.42
19:CT:67:HIS:O	19:CT:70:LYS:HG2	2.19	0.42
15:CP:4:ILE:HG22	15:CP:19:VAL:HG23	2.02	0.42
35:BN:36:THR:O	35:BN:37:THR:O	2.37	0.42
38:DQ:65:ASN:CB	38:DQ:75:TYR:HB2	2.49	0.42
23:BB:2299:U:H2'	23:BB:2300:C:H6	1.85	0.42
39:DR:22:LEU:CD1	39:DR:23:GLU:H	2.28	0.42
23:DB:795:C:H2'	23:DB:796:C:H6	1.84	0.42
2:AC:181:ILE:HG22	2:AC:182:ASP:N	2.35	0.42
2:AC:38:VAL:HG12	2:AC:93:ILE:HG21	2.01	0.42
23:BB:288:U:H2'	23:BB:289:G:H8	1.85	0.42
23:DB:876:C:H5'	23:DB:877:A:OP2	2.20	0.42
20:CB:163:ILE:CG2	20:CB:164:ASP:H	2.25	0.42
37:BP:92:ARG:H	37:BP:113:LEU:HD23	1.84	0.42
10:CK:74:LYS:C	10:CK:76:TYR:H	2.23	0.42
20:CB:202:ASN:HD22	20:CB:203:ASP:N	2.12	0.42
35:DN:7:GLY:O	35:DN:8:ARG:HB2	2.20	0.42
34:DM:127:LYS:NZ	34:DM:129:THR:N	2.68	0.42
12:AM:84:CYS:HA	18:AS:72:GLU:O	2.19	0.42
1:AA:1441:A:H2'	1:AA:1442:G:O4'	2.20	0.42
25:BC:73:ILE:N	25:BC:73:ILE:HD12	2.35	0.42
34:DM:38:ARG:HD3	34:DM:39:GLY:N	2.35	0.42
48:B1:34:GLU:N	48:B1:52:LYS:O	2.53	0.42
4:AE:110:MET:SD	4:AE:110:MET:N	2.92	0.42
23:DB:705:A:N6	23:DB:726:G:H1'	2.35	0.42
14:CO:10:ILE:HD13	14:CO:30:LEU:HG	2.02	0.42
23:BB:18:U:O3'	38:BQ:22:GLY:HA3	2.19	0.42
4:CE:144:GLU:HA	4:CE:146:MET:SD	2.59	0.42
23:BB:729:G:H8	23:BB:764:A:OP1	2.03	0.42
6:AG:148:LYS:HA	6:AG:151:ALA:HB3	2.02	0.42
6:CG:11:ILE:HG22	6:CG:12:LEU:H	1.84	0.42
23:BB:1797:G:C5'	25:BC:251:THR:HG23	2.50	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AG:30:MET:SD	6:AG:35:LYS:HB2	2.59	0.42
8:AI:24:ASN:HA	8:AI:26:LYS:HZ2	1.84	0.42
15:AP:71:VAL:HA	15:AP:74:LEU:CD1	2.49	0.42
1:AA:1073:U:O3'	20:AB:104:LYS:NZ	2.53	0.42
2:CC:5:HIS:ND1	13:CN:88:MET:HB3	2.35	0.42
18:AS:20:LYS:NZ	18:AS:20:LYS:HB3	2.31	0.42
1:AA:1477:U:H2'	1:AA:1478:U:H6	1.83	0.42
23:DB:963:U:H5''	55:DB:3696:HOH:O	2.19	0.42
23:BB:834:G:H2'	23:BB:835:C:C6	2.54	0.42
44:DX:31:GLN:HE21	44:DX:31:GLN:CA	2.24	0.42
1:AA:21:G:H1'	1:AA:914:A:H61	1.84	0.42
34:DM:96:ILE:HG22	34:DM:97:GLN:CD	2.39	0.42
38:BQ:58:GLN:O	38:BQ:62:ALA:HB2	2.19	0.42
16:AQ:26:ARG:O	16:AQ:38:LYS:HA	2.19	0.42
23:DB:1161:C:H2'	23:DB:1162:G:C8	2.53	0.42
29:DG:29:ASN:HB2	29:DG:78:VAL:HA	2.01	0.42
16:AQ:62:GLU:HG3	16:AQ:72:TRP:CH2	2.55	0.42
52:DI:63:ASP:O	52:DI:63:ASP:OD1	2.38	0.42
3:CD:67:LEU:O	3:CD:71:PHE:HB2	2.19	0.42
1:CA:297:G:N2	1:CA:300:A:OP2	2.51	0.42
1:CA:687:A:C2	1:CA:704:A:C6	3.08	0.42
23:DB:1463:C:H2'	23:DB:1464:G:H8	1.82	0.42
23:BB:1528:A:C2'	23:BB:1529:G:H5'	2.50	0.42
1:AA:1091:U:H2'	1:AA:1093:A:OP2	2.19	0.42
3:CD:55:ARG:HD2	3:CD:55:ARG:HA	1.78	0.42
23:DB:2077:A:N6	23:DB:2435:A:N6	2.68	0.42
1:CA:462:G:H3'	1:CA:463:U:C5'	2.48	0.42
16:CQ:82:VAL:C	16:CQ:83:LEU:HD22	2.40	0.42
23:DB:1289:C:C2	23:DB:1290:C:C5	3.07	0.42
23:DB:265:A:H2'	23:DB:266:G:C1'	2.50	0.42
1:AA:489:C:H2'	1:AA:490:C:C6	2.55	0.42
23:BB:1268:A:H2'	23:BB:1269:A:H8	1.85	0.42
1:AA:309:A:O2'	1:AA:607:A:N1	2.52	0.42
1:CA:761:G:H2'	1:CA:762:U:H6	1.84	0.42
20:AB:80:LYS:HB3	20:AB:90:PHE:CE1	2.54	0.42
42:DU:49:PRO:CD	42:DU:50:ALA:H	2.30	0.42
23:BB:1820:U:H3	25:BC:197:ALA:CB	2.33	0.42
23:DB:822:G:H2'	23:DB:823:C:H6	1.84	0.42
5:AF:77:THR:O	5:AF:81:ASN:HB2	2.20	0.42
1:CA:257:G:H2'	1:CA:258:G:C8	2.55	0.42
1:CA:716:A:N3	10:CK:119:GLY:HA2	2.34	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:50:GLY:H	4:AE:62:ALA:HB2	1.85	0.42
21:AU:45:LYS:O	21:AU:48:LYS:HG3	2.19	0.42
14:AO:10:ILE:HD13	14:AO:30:LEU:HA	2.02	0.42
22:BA:100:G:H5''	23:BB:915:C:O2'	2.19	0.42
1:AA:771:G:H2'	1:AA:772:U:C6	2.54	0.42
1:CA:771:G:H2'	1:CA:772:U:C6	2.54	0.42
37:DP:73:PHE:CD2	37:DP:75:THR:HG23	2.55	0.42
2:CC:68:HIS:HA	2:CC:103:ALA:HB3	2.02	0.42
1:AA:257:G:H2'	1:AA:258:G:C8	2.55	0.42
15:CP:6:LEU:HB3	15:CP:17:TYR:HB3	2.01	0.42
23:BB:2428:G:H5''	23:BB:2429:G:O5'	2.19	0.42
23:DB:1099:G:C8	52:DI:3:LYS:O	2.73	0.42
37:DP:26:GLU:O	37:DP:27:VAL:C	2.59	0.42
37:DP:18:SER:HA	37:DP:87:ARG:HH22	1.85	0.42
23:DB:459:U:O2'	23:DB:460:A:H5'	2.20	0.42
36:BO:55:GLU:HG3	36:BO:56:LYS:H	1.84	0.42
30:BH:142:VAL:HG12	30:BH:143:ILE:H	1.84	0.42
30:BH:82:SER:HB3	30:BH:90:LEU:HD23	2.02	0.42
34:BM:3:GLN:HG2	34:BM:46:ILE:CB	2.44	0.42
23:BB:39:G:H2'	23:BB:40:U:H6	1.84	0.42
23:DB:2527:C:H4'	51:D4:34:LYS:O	2.20	0.42
23:BB:2684:U:OP1	37:BP:59:THR:HG22	2.19	0.42
23:BB:2849:U:O4'	23:BB:2868:A:C6	2.73	0.42
43:DW:75:ASN:O	43:DW:77:LYS:N	2.52	0.42
25:BC:48:ILE:HG22	25:BC:49:THR:N	2.35	0.42
25:BC:161:VAL:HB	25:BC:193:GLU:OE2	2.20	0.42
30:DH:35:LYS:O	30:DH:35:LYS:HG3	2.20	0.42
47:D0:42:ILE:O	47:D0:43:THR:C	2.57	0.42
25:DC:103:ILE:CG2	25:DC:104:LEU:H	2.33	0.42
25:DC:161:VAL:O	25:DC:161:VAL:HG12	2.19	0.42
25:DC:91:ALA:O	25:DC:102:TYR:HD2	2.03	0.42
31:DJ:96:ARG:HG2	31:DJ:99:ARG:HB2	2.01	0.42
43:BW:44:PHE:N	43:BW:76:ARG:HB2	2.35	0.42
27:DE:169:VAL:O	27:DE:170:ARG:HB2	2.19	0.42
50:B3:12:ARG:HG2	50:B3:23:HIS:CB	2.50	0.42
16:AQ:9:GLY:O	16:AQ:58:VAL:HG22	2.20	0.42
20:AB:65:LYS:HB2	20:AB:157:PRO:HA	2.02	0.42
46:DZ:59:ARG:O	46:DZ:60:PHE:HB3	2.20	0.42
33:BL:38:GLN:N	33:BL:41:ARG:NH1	2.68	0.42
41:DT:53:VAL:HB	41:DT:87:LEU:HD21	2.02	0.42
31:DJ:44:TYR:CE2	31:DJ:50:THR:HB	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BF:56:LEU:HD23	28:BF:59:ILE:CG2	2.50	0.42
18:CS:46:LEU:HB3	18:CS:47:THR:H	1.73	0.42
34:DM:16:ARG:HH11	34:DM:16:ARG:CG	2.33	0.42
5:CF:29:ILE:HG23	5:CF:66:ALA:HB2	2.02	0.42
23:BB:2328:A:O2'	23:BB:2329:U:H5'	2.19	0.42
27:BE:152:GLU:H	27:BE:171:ASP:CB	2.33	0.42
26:DD:32:ASN:O	26:DD:34:VAL:HG13	2.20	0.42
26:DD:34:VAL:HG11	26:DD:50:VAL:CG2	2.50	0.42
30:DH:101:ASP:O	30:DH:104:THR:HB	2.19	0.42
30:DH:144:VAL:HG12	30:DH:145:ASN:N	2.34	0.42
37:BP:80:VAL:HG22	37:BP:80:VAL:O	2.20	0.42
49:B2:34:ARG:HG3	49:B2:34:ARG:NH1	2.35	0.42
41:BT:84:TYR:O	41:BT:85:VAL:O	2.38	0.42
26:BD:139:SER:O	26:BD:140:HIS:C	2.58	0.42
35:BN:72:ASP:C	35:BN:74:GLU:H	2.24	0.42
23:DB:161:A:H3'	23:DB:162:U:C5'	2.38	0.42
23:DB:162:U:O2'	23:DB:163:C:C5'	2.60	0.42
26:BD:38:LYS:O	26:BD:42:ASN:ND2	2.49	0.42
26:BD:2:ILE:HG23	26:BD:3:GLY:N	2.33	0.42
13:CN:26:LEU:HA	13:CN:29:ILE:CD1	2.44	0.42
13:CN:30:ILE:H	13:CN:44:VAL:HG21	1.85	0.42
1:AA:1110:A:C5	1:AA:1111:A:N7	2.88	0.42
29:BG:28:LYS:C	29:BG:29:ASN:HD22	2.23	0.42
31:DJ:67:ASN:C	31:DJ:69:ARG:N	2.73	0.42
5:AF:70:VAL:HA	5:AF:73:GLU:HG3	2.02	0.42
48:B1:46:VAL:C	48:B1:47:ILE:HG12	2.41	0.42
1:AA:839:C:O2'	1:AA:840:C:H5'	2.19	0.42
14:CO:69:LEU:HD21	14:CO:76:ARG:HD2	2.02	0.42
15:CP:67:ILE:HG13	15:CP:71:VAL:CG1	2.40	0.42
38:DQ:92:LYS:C	38:DQ:94:LEU:N	2.73	0.42
38:DQ:92:LYS:O	38:DQ:94:LEU:N	2.53	0.42
2:AC:5:HIS:CG	13:AN:88:MET:HB3	2.55	0.42
29:DG:155:PRO:O	29:DG:171:LYS:HG3	2.19	0.42
36:BO:6:ALA:C	36:BO:8:ILE:H	2.23	0.42
20:CB:209:VAL:HG23	20:CB:210:THR:H	1.85	0.42
37:BP:91:VAL:HG12	37:BP:92:ARG:N	2.35	0.42
23:DB:1665:A:H1'	32:DK:67:LYS:HE2	2.02	0.42
4:CE:17:VAL:HG22	4:CE:17:VAL:O	2.20	0.42
9:AJ:10:LEU:O	9:AJ:71:LEU:HA	2.19	0.42
52:DI:45:THR:C	52:DI:48:ILE:HG22	2.40	0.42
23:DB:2266:A:O4'	23:DB:2272:U:O4	2.37	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AC:57:GLU:O	2:AC:63:ILE:HA	2.20	0.42
23:DB:1791:A:C2	23:DB:1829:A:O4'	2.73	0.42
23:DB:2347:C:H4'	23:DB:2347:C:OP1	2.19	0.42
3:AD:137:SER:HB2	3:AD:138:PRO:CD	2.45	0.42
23:BB:1557:C:H3'	23:BB:1558:C:C5'	2.49	0.42
25:DC:257:ARG:HA	25:DC:261:ARG:CZ	2.49	0.42
1:CA:415:A:N3	1:CA:415:A:O4'	2.53	0.42
42:DU:40:LEU:O	42:DU:58:VAL:HA	2.19	0.42
1:CA:280:C:N3	16:CQ:39:ARG:HA	2.35	0.42
19:CT:47:GLN:HG2	19:CT:82:ILE:HD12	2.01	0.42
23:BB:1829:A:H3'	23:BB:1830:C:C6	2.55	0.42
35:DN:12:ARG:HB3	35:DN:13:ASN:H	1.77	0.42
2:CC:163:ARG:O	2:CC:164:THR:HG23	2.20	0.42
4:AE:82:HIS:CD2	7:AH:95:MET:HG3	2.55	0.42
25:BC:242:HIS:N	25:BC:243:PRO:HD3	2.34	0.42
23:BB:1700:A:C2'	23:BB:1701:A:H5'	2.44	0.42
29:BG:66:THR:O	29:BG:70:LEU:HB2	2.20	0.42
23:BB:1799:G:O2'	25:BC:181:ARG:HD2	2.19	0.42
18:CS:30:LEU:HB2	18:CS:48:ILE:HG12	2.01	0.42
28:DF:163:GLU:HA	28:DF:166:ARG:CG	2.50	0.42
9:CJ:9:ARG:HG3	9:CJ:99:GLN:HB2	2.01	0.42
52:BI:5:GLN:CG	52:BI:6:ALA:N	2.81	0.42
20:CB:27:LYS:CB	20:CB:28:PRO:HD3	2.46	0.42
1:CA:1053:G:H4'	1:CA:1054:C:H5'	2.00	0.42
1:CA:123:U:H2'	1:CA:124:C:C6	2.54	0.42
1:AA:538:G:H2'	1:AA:539:A:H8	1.85	0.42
23:BB:953:G:H2'	23:BB:954:G:H8	1.85	0.42
34:BM:75:GLU:O	34:BM:86:LYS:HB2	2.20	0.42
50:D3:46:LYS:HD2	50:D3:47:ALA:N	2.35	0.42
13:AN:1:ALA:O	13:AN:5:MET:HB2	2.19	0.42
1:CA:1499:A:H1'	1:CA:1520:C:H5'	2.01	0.42
1:AA:811:C:O2'	1:AA:901:A:N1	2.47	0.42
1:CA:635:A:H2'	1:CA:636:U:H6	1.85	0.42
27:DE:189:THR:C	27:DE:191:ASP:N	2.72	0.42
1:AA:959:A:H2'	1:AA:960:U:O4'	2.20	0.42
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.20	0.42
6:CG:55:LYS:CG	6:CG:56:SER:H	2.30	0.42
6:CG:56:SER:HB3	6:CG:59:GLU:CB	2.50	0.42
25:BC:180:MET:HB2	25:BC:265:PHE:CB	2.49	0.42
30:DH:131:SER:HB2	30:DH:141:LYS:HG3	2.02	0.42
23:BB:1897:G:O2'	23:BB:1898:U:H5'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DG:29:ASN:OD1	29:DG:81:GLY:HA2	2.19	0.42
23:DB:1713:A:N6	23:DB:1745:A:H61	2.18	0.42
52:BI:12:VAL:HG23	52:BI:41:PHE:CZ	2.55	0.42
23:DB:1674:G:N2	23:DB:1677:A:N1	2.67	0.42
23:BB:2078:C:H2'	23:BB:2079:U:C6	2.55	0.42
23:DB:211:C:O2'	23:DB:212:G:H5'	2.20	0.42
11:AL:41:PRO:HG3	11:AL:46:SER:O	2.19	0.42
44:DX:55:THR:O	44:DX:57:LEU:N	2.40	0.42
23:BB:2351:G:HO2'	23:BB:2352:A:H8	1.68	0.42
1:CA:688:G:O2'	1:CA:689:C:H5'	2.20	0.42
23:DB:1399:C:O2'	23:DB:1400:U:H5'	2.20	0.42
1:AA:113:G:H21	1:AA:353:A:H8	1.66	0.42
29:BG:132:LEU:HD21	29:BG:147:LEU:CD1	2.49	0.42
23:BB:1030:C:O2'	23:BB:1031:G:H5'	2.20	0.42
52:BI:64:ARG:C	52:BI:64:ARG:HD2	2.39	0.42
2:CC:28:PHE:CZ	13:CN:93:PRO:HG2	2.55	0.42
47:B0:49:ARG:O	47:B0:49:ARG:HG2	2.20	0.42
2:CC:37:LYS:HB3	2:CC:41:TYR:CZ	2.55	0.42
15:CP:12:LYS:HD2	15:CP:13:LYS:HG3	2.02	0.42
23:BB:2756:U:H5'	51:B4:18:LYS:HZ1	1.85	0.42
23:DB:409:G:H2'	23:DB:410:G:H8	1.85	0.42
3:AD:54:LEU:HA	3:AD:57:LYS:HB3	2.02	0.42
1:AA:109:A:N1	1:AA:326:G:C6	2.88	0.42
12:AM:106:ARG:HD3	12:AM:106:ARG:HA	1.90	0.42
1:CA:1381:U:O2'	1:CA:1382:C:H5'	2.20	0.42
1:AA:1473:G:O2'	23:BB:1702:G:H4'	2.20	0.42
23:DB:647:G:H2'	23:DB:648:G:H8	1.85	0.42
1:CA:989:U:O2'	1:CA:990:C:H5'	2.20	0.42
1:AA:6:G:H4'	1:AA:298:A:H4'	2.01	0.42
20:AB:107:ARG:HA	20:AB:110:ILE:HD12	2.01	0.42
23:BB:1783:A:H5'	23:BB:2608:G:H4'	2.02	0.42
30:BH:98:ASP:O	30:BH:102:ALA:HB2	2.20	0.41
30:BH:89:LYS:HE2	30:BH:90:LEU:N	2.35	0.41
1:CA:975:A:O2'	1:CA:976:G:P	2.77	0.41
37:BP:52:ARG:HB3	37:BP:60:VAL:HG21	2.00	0.41
25:BC:51:ARG:O	25:BC:51:ARG:NE	2.52	0.41
23:BB:161:A:O5'	23:BB:161:A:H8	2.02	0.41
23:BB:2322:A:C6	23:BB:2333:A:N6	2.88	0.41
30:DH:3:VAL:CG2	30:DH:37:VAL:HG21	2.49	0.41
50:B3:24:LYS:HE2	50:B3:29:ARG:HH22	1.85	0.41
23:BB:636:G:N1	33:BL:76:GLU:OE2	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BK:87:LEU:O	32:BK:89:ASN:N	2.53	0.41
32:BK:2:ILE:CD1	32:BK:8:LEU:HD21	2.50	0.41
23:DB:2091:C:H1'	46:DZ:32:LEU:HG	2.02	0.41
23:DB:397:U:OP1	46:DZ:48:GLN:HG3	2.20	0.41
34:BM:10:ARG:HB3	34:BM:11:LYS:HE3	2.02	0.41
36:DO:10:ARG:HG3	36:DO:96:GLY:N	2.35	0.41
39:DR:32:THR:HA	39:DR:35:PHE:CE2	2.55	0.41
23:BB:482:A:H5''	42:BU:43:LYS:CE	2.33	0.41
40:DS:8:ARG:HA	40:DS:102:HIS:ND1	2.35	0.41
22:BA:75:G:H1'	24:BV:29:ILE:HG21	2.01	0.41
31:DJ:41:LYS:O	38:DQ:63:ARG:NH2	2.53	0.41
23:BB:2026:U:C2	23:BB:2027:G:C8	3.07	0.41
38:BQ:65:ASN:HB2	38:BQ:75:TYR:CB	2.45	0.41
38:BQ:94:LEU:H	38:BQ:94:LEU:CD1	2.27	0.41
43:BW:40:ARG:NH1	43:BW:68:PHE:HD1	2.17	0.41
3:CD:169:TRP:HB2	3:CD:183:ARG:O	2.20	0.41
10:AK:105:ARG:HB3	10:AK:106:ILE:H	1.65	0.41
10:AK:22:ILE:HG23	10:AK:31:VAL:HG22	2.02	0.41
13:CN:51:PRO:HG2	13:CN:52:ARG:N	2.30	0.41
18:CS:10:ILE:HG23	18:CS:40:PHE:HE2	1.85	0.41
23:BB:136:G:P	23:BB:136:G:H8	2.43	0.41
47:D0:12:ARG:HG3	47:D0:13:GLY:N	2.35	0.41
23:DB:1812:U:H2'	23:DB:1813:G:C8	2.53	0.41
32:DK:63:VAL:CG2	32:DK:115:ILE:HD11	2.50	0.41
42:BU:92:VAL:HG22	42:BU:92:VAL:O	2.20	0.41
1:CA:1307:U:H2'	1:CA:1308:U:O4'	2.19	0.41
3:CD:24:VAL:HG23	3:CD:25:ARG:N	2.35	0.41
15:AP:51:ARG:O	15:AP:52:LEU:HD13	2.19	0.41
23:DB:1788:C:O2'	23:DB:1789:A:H5'	2.20	0.41
1:CA:262:A:H5''	19:CT:70:LYS:HD2	2.02	0.41
23:BB:1082:U:H2'	23:BB:1083:U:O4'	2.20	0.41
1:AA:952:U:O2'	1:AA:953:G:H5'	2.20	0.41
23:DB:775:G:C5	23:DB:794:A:C8	3.08	0.41
48:D1:8:ILE:HB	48:D1:27:ARG:NH1	2.35	0.41
28:DF:132:ARG:HG3	28:DF:132:ARG:HH11	1.85	0.41
22:BA:50:A:OP1	36:BO:68:LYS:HG3	2.19	0.41
9:AJ:93:ALA:HB1	9:AJ:96:VAL:HG23	2.02	0.41
5:CF:85:ILE:CG2	5:CF:86:ARG:H	2.32	0.41
1:CA:951:G:O2'	1:CA:952:U:H5'	2.19	0.41
10:CK:30:ILE:HD12	10:CK:30:ILE:C	2.40	0.41
23:BB:2324:U:O2'	23:BB:2385:C:H5	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:2270:A:O5'	43:BW:18:LYS:HB3	2.19	0.41
25:DC:22:GLU:HA	25:DC:202:ARG:CZ	2.50	0.41
1:CA:1279:G:N1	9:CJ:45:ARG:NH1	2.68	0.41
23:BB:508:A:H2'	23:BB:509:C:C5'	2.45	0.41
16:CQ:45:VAL:HA	16:CQ:72:TRP:O	2.20	0.41
2:AC:172:VAL:HG11	2:AC:200:TRP:HB3	2.02	0.41
8:CI:105:ARG:O	8:CI:107:ALA:N	2.53	0.41
23:DB:1714:U:HO2'	23:DB:1715:G:P	2.42	0.41
5:CF:11:HIS:NE2	5:CF:13:ASP:HB3	2.34	0.41
9:CJ:65:TYR:CE1	13:CN:84:ARG:HA	2.54	0.41
2:AC:24:ASN:O	2:AC:26:LYS:N	2.54	0.41
4:AE:82:HIS:HE1	4:AE:147:ASN:H	1.67	0.41
15:AP:68:SER:HB3	15:AP:71:VAL:CG1	2.47	0.41
1:AA:412:A:H1'	1:AA:413:G:C8	2.46	0.41
23:BB:1372:U:H2'	23:BB:1373:A:H8	1.86	0.41
23:DB:1373:A:OP1	23:DB:2213:U:C4	2.73	0.41
24:BV:76:ASP:HB2	34:BM:136:MET:CE	2.49	0.41
26:BD:100:LEU:HG	26:BD:100:LEU:O	2.20	0.41
1:AA:208:U:C2'	1:AA:209:U:H5''	2.50	0.41
1:AA:207:C:O2'	1:AA:208:U:H5'	2.20	0.41
23:BB:1236:G:O2'	23:BB:1237:A:O4'	2.36	0.41
27:BE:84:THR:CG2	27:BE:85:PHE:H	2.26	0.41
13:AN:20:PHE:HA	13:AN:24:ALA:H	1.85	0.41
23:DB:608:A:H2'	23:DB:609:A:H8	1.81	0.41
2:CC:53:ARG:O	2:CC:67:ILE:HD12	2.20	0.41
23:BB:1294:U:C4	23:BB:1295:C:C5	3.07	0.41
14:AO:52:ARG:O	14:AO:55:LEU:HB3	2.20	0.41
1:CA:1292:G:O2'	1:CA:1293:C:H5'	2.20	0.41
23:BB:354:A:H2'	23:BB:355:U:O4'	2.20	0.41
23:BB:2308:G:H5'	23:BB:2309:A:C5'	2.49	0.41
23:BB:2047:C:OP1	47:B0:15:ARG:HD2	2.20	0.41
47:B0:15:ARG:HG2	47:B0:15:ARG:NH1	2.35	0.41
23:BB:2046:G:H5'	47:B0:15:ARG:HG3	2.01	0.41
1:AA:1052:U:H5'	1:AA:1053:G:OP2	2.20	0.41
23:BB:433:C:H2'	23:BB:434:U:H6	1.84	0.41
15:CP:1:MET:HA	15:CP:1:MET:HE3	2.01	0.41
2:CC:63:ILE:O	2:CC:63:ILE:HG23	2.19	0.41
23:DB:1112:G:H5'	29:DG:1:SER:HA	2.01	0.41
23:BB:1529:G:H2'	23:BB:1530:G:H8	1.85	0.41
23:DB:1529:G:H2'	23:DB:1530:G:H8	1.85	0.41
23:BB:1289:C:C2	23:BB:1290:C:C5	3.07	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AE:137:ARG:HG2	4:AE:137:ARG:H	1.75	0.41
23:DB:1221:C:O2'	23:DB:1222:U:H5'	2.20	0.41
15:AP:8:ARG:NE	15:AP:15:PRO:HB3	2.34	0.41
13:AN:19:TYR:HE2	13:AN:23:ARG:NH1	2.17	0.41
23:BB:522:A:H2'	23:BB:523:C:H6	1.85	0.41
8:AI:15:ALA:O	8:AI:66:VAL:HA	2.20	0.41
1:CA:73:C:H2'	1:CA:74:A:H8	1.85	0.41
23:DB:327:G:H2'	23:DB:328:U:O4'	2.20	0.41
23:BB:1268:A:H2'	23:BB:1269:A:C8	2.55	0.41
23:BB:2708:G:O2'	23:BB:2709:G:H5'	2.20	0.41
35:BN:65:LEU:HD12	35:BN:68:ALA:HB3	2.02	0.41
8:AI:93:LEU:C	8:AI:93:LEU:HD12	2.40	0.41
23:BB:908:C:O2'	23:BB:909:A:H5'	2.20	0.41
23:DB:1541:C:H2'	23:DB:1542:U:H6	1.85	0.41
48:B1:49:LYS:H	48:B1:49:LYS:HD2	1.85	0.41
1:AA:821:G:H2'	1:AA:822:U:C6	2.55	0.41
45:BY:28:LEU:N	45:BY:28:LEU:HD12	2.35	0.41
23:BB:1678:A:C2'	23:BB:1679:A:H5'	2.50	0.41
18:AS:44:ILE:HA	18:AS:61:VAL:HB	2.01	0.41
47:B0:4:GLN:HB3	47:B0:4:GLN:HE21	1.65	0.41
23:BB:647:G:H2'	23:BB:648:G:H8	1.85	0.41
10:CK:94:SER:HA	10:CK:97:ARG:CG	2.50	0.41
1:CA:154:U:O2'	1:CA:155:A:H5'	2.20	0.41
23:DB:2708:G:O2'	23:DB:2709:G:H5'	2.20	0.41
3:CD:97:LEU:HB2	3:CD:134:TYR:HB3	2.02	0.41
23:DB:1421:G:C2	23:DB:1422:G:C8	3.08	0.41
20:CB:181:PRO:HA	20:CB:196:ASP:OD2	2.19	0.41
27:BE:18:THR:O	27:BE:19:PHE:C	2.58	0.41
1:CA:928:G:H2'	1:CA:929:G:H8	1.85	0.41
23:BB:58:G:H2'	23:BB:59:U:C6	2.55	0.41
23:DB:35:G:H2'	23:DB:36:G:O4'	2.20	0.41
10:AK:121:ARG:HG3	10:AK:121:ARG:NH1	2.34	0.41
42:BU:35:VAL:CG1	42:BU:36:GLU:H	2.15	0.41
42:BU:71:ILE:HG23	42:BU:72:PHE:N	2.35	0.41
20:AB:185:ILE:HD12	20:AB:185:ILE:O	2.20	0.41
23:BB:2849:U:N3	23:BB:2867:G:H1'	2.35	0.41
25:BC:163:ILE:CG2	25:BC:164:VAL:H	2.17	0.41
31:DJ:124:VAL:CG2	31:DJ:125:TYR:N	2.76	0.41
36:BO:45:SER:C	36:BO:47:VAL:N	2.73	0.41
36:BO:49:VAL:CG2	36:BO:50:ALA:H	2.19	0.41
36:BO:39:VAL:HB	36:BO:83:LEU:CD1	2.49	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:14:HIS:NE2	20:AB:49:PHE:HZ	2.17	0.41
23:DB:340:A:H2'	23:DB:341:C:C5'	2.50	0.41
23:BB:2673:G:H2'	23:BB:2674:G:H8	1.85	0.41
23:BB:2462:C:H2'	23:BB:2463:C:H6	1.84	0.41
23:BB:2572:A:C2	26:BD:150:GLN:NE2	2.88	0.41
23:DB:2720:U:H2'	23:DB:2721:A:C8	2.55	0.41
23:DB:2874:C:H2'	23:DB:2875:C:H6	1.84	0.41
1:AA:981:U:P	13:AN:12:ARG:HH12	2.42	0.41
40:BS:8:ARG:NH1	40:BS:102:HIS:NE2	2.67	0.41
39:DR:18:GLN:H	39:DR:18:GLN:CD	2.21	0.41
40:DS:7:HIS:ND1	40:DS:7:HIS:O	2.52	0.41
1:CA:1320:C:H41	18:CS:36:ARG:CG	2.32	0.41
25:BC:27:LYS:N	25:BC:28:PRO:CD	2.83	0.41
23:DB:910:A:N7	34:DM:16:ARG:HB3	2.35	0.41
34:DM:15:GLY:O	34:DM:16:ARG:O	2.38	0.41
23:BB:1010:A:O2'	23:BB:1152:C:H1'	2.20	0.41
31:DJ:80:HIS:N	31:DJ:80:HIS:ND1	2.68	0.41
43:BW:35:ILE:HG12	43:BW:70:VAL:CG2	2.47	0.41
3:CD:171:GLU:O	3:CD:180:THR:HB	2.21	0.41
51:B4:24:ARG:HG2	51:B4:26:ILE:HG12	2.02	0.41
24:BV:6:ALA:HB3	24:BV:65:VAL:CG1	2.50	0.41
26:DD:106:LYS:HG3	26:DD:208:LYS:CE	2.51	0.41
33:DL:79:LEU:N	33:DL:113:ALA:HB3	2.35	0.41
44:BX:19:LEU:C	44:BX:21:LEU:N	2.74	0.41
23:BB:1998:A:H2'	23:BB:1999:C:C6	2.55	0.41
23:BB:2513:A:H2'	23:BB:2514:U:C6	2.55	0.41
23:BB:2723:C:H5''	35:BN:3:HIS:HB2	2.03	0.41
23:DB:2016:U:H2'	23:DB:2017:U:C6	2.56	0.41
33:BL:47:ARG:HG3	33:BL:47:ARG:O	2.20	0.41
23:BB:2768:U:H2'	23:BB:2769:U:O4'	2.20	0.41
26:BD:33:ARG:O	26:BD:34:VAL:HB	2.19	0.41
13:CN:21:ALA:O	13:CN:24:ALA:HB3	2.20	0.41
28:DF:36:ASN:HD22	28:DF:87:LYS:H	1.68	0.41
39:DR:6:GLN:CB	39:DR:41:ILE:HD13	2.49	0.41
12:CM:18:LEU:HD23	12:CM:18:LEU:O	2.20	0.41
8:CI:80:HIS:HE1	8:CI:103:VAL:O	2.03	0.41
31:DJ:64:VAL:HG21	31:DJ:69:ARG:HG2	2.02	0.41
33:DL:116:VAL:O	33:DL:116:VAL:HG23	2.20	0.41
28:DF:174:PHE:N	28:DF:175:PRO:CD	2.83	0.41
19:AT:60:GLN:C	19:AT:62:ALA:H	2.22	0.41
6:AG:96:ASN:O	6:AG:100:MET:HG3	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:839:C:O2'	1:CA:840:C:H5'	2.19	0.41
14:AO:80:LEU:O	14:AO:84:LEU:HD13	2.20	0.41
42:DU:71:ILE:CD1	42:DU:72:PHE:N	2.80	0.41
22:DA:30:C:H2'	22:DA:31:C:C5'	2.41	0.41
2:AC:82:ASP:O	2:AC:86:LEU:HG	2.19	0.41
23:DB:2886:A:C4	47:D0:27:LEU:HG	2.56	0.41
10:CK:12:ARG:HB3	10:CK:13:LYS:HZ3	1.84	0.41
10:CK:70:ALA:CA	10:CK:74:LYS:HB2	2.50	0.41
1:CA:949:A:H2'	1:CA:950:U:O4'	2.21	0.41
25:BC:78:GLU:HB3	25:BC:92:LEU:HD23	2.02	0.41
2:AC:186:SER:HB3	2:AC:197:VAL:CG1	2.50	0.41
13:CN:82:LYS:HA	13:CN:82:LYS:HE2	2.01	0.41
13:CN:65:GLN:HB3	13:CN:82:LYS:HG2	2.01	0.41
25:BC:251:THR:HG22	25:BC:252:LYS:N	2.34	0.41
29:DG:96:ALA:HA	29:DG:124:CYS:SG	2.60	0.41
1:CA:208:U:H2'	1:CA:210:C:C5	2.55	0.41
25:DC:27:LYS:N	25:DC:27:LYS:HD2	2.35	0.41
23:DB:2768:U:H2'	23:DB:2769:U:O4'	2.20	0.41
23:DB:963:U:H2'	23:DB:964:C:H6	1.84	0.41
1:CA:407:U:H3'	1:CA:408:A:H8	1.85	0.41
23:BB:2526:G:N2	51:B4:1:MET:HB3	2.35	0.41
1:AA:372:C:C1'	1:AA:373:A:OP2	2.66	0.41
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.19	0.41
3:CD:151:GLN:HE21	3:CD:153:ARG:HB3	1.85	0.41
23:BB:2185:U:H6	23:BB:2185:U:O5'	2.02	0.41
32:DK:17:ARG:HB2	32:DK:45:GLU:HB3	2.02	0.41
23:DB:212:G:H2'	23:DB:213:A:C8	2.55	0.41
22:DA:112:G:H2'	22:DA:113:C:C6	2.54	0.41
1:AA:598:U:C2	1:AA:599:C:C5	3.09	0.41
10:CK:22:ILE:HD13	10:CK:95:THR:CG2	2.49	0.41
22:BA:92:C:H2'	22:BA:93:C:H6	1.84	0.41
23:BB:1119:U:H2'	23:BB:1120:G:H8	1.85	0.41
28:DF:9:ASP:O	28:DF:10:GLU:CB	2.68	0.41
17:AR:32:ILE:HG13	17:AR:33:THR:N	2.35	0.41
1:CA:392:C:H2'	1:CA:393:A:C8	2.54	0.41
23:DB:1987:A:H2'	23:DB:1988:G:C8	2.54	0.41
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.55	0.41
17:AR:70:THR:OG1	17:AR:71:ASP:N	2.52	0.41
1:CA:1493:A:H2'	1:CA:1494:G:OP2	2.20	0.41
1:AA:182:A:O2'	1:AA:183:C:O5'	2.34	0.41
41:BT:16:VAL:HG13	41:BT:16:VAL:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CG:65:LEU:C	6:CG:67:ASN:H	2.23	0.41
23:BB:2149:U:OP1	23:BB:2149:U:H4'	2.20	0.41
25:DC:42:ARG:CZ	25:DC:44:ASN:HB2	2.50	0.41
28:DF:38:GLY:N	28:DF:86:CYS:SG	2.93	0.41
23:BB:30:G:H2'	23:BB:31:C:H6	1.85	0.41
10:CK:126:ARG:HG2	10:CK:126:ARG:NH1	2.35	0.41
33:DL:100:ILE:O	33:DL:101:ILE:HD13	2.19	0.41
1:CA:155:A:H2'	1:CA:156:C:O4'	2.19	0.41
7:CH:28:SER:HB3	7:CH:58:LEU:HB2	2.01	0.41
1:CA:102:G:N3	1:CA:151:A:H2	2.18	0.41
37:DP:40:GLN:O	37:DP:41:ALA:O	2.38	0.41
4:AE:61:LYS:O	4:AE:65:LYS:HG2	2.20	0.41
4:AE:63:MET:O	4:AE:66:ALA:HB3	2.20	0.41
1:CA:562:U:H1'	11:CL:11:ARG:HB3	2.02	0.41
3:AD:43:ARG:HB3	3:AD:44:LYS:H	1.48	0.41
1:CA:1483:A:H2'	1:CA:1484:C:O4'	2.20	0.41
2:AC:131:ARG:HB3	2:AC:131:ARG:CZ	2.50	0.41
52:BI:35:MET:C	52:BI:35:MET:SD	2.98	0.41
33:BL:73:ILE:O	33:BL:74:THR:C	2.59	0.41
23:BB:1215:G:O2'	23:BB:1216:G:H5'	2.20	0.41
20:AB:185:ILE:HG22	20:AB:199:ILE:HB	2.02	0.41
27:BE:48:THR:CG2	27:BE:49:ARG:N	2.80	0.41
1:AA:243:A:C1'	1:AA:244:U:OP2	2.68	0.41
23:DB:2354:C:O2'	43:DW:31:LEU:HG	2.20	0.41
43:DW:74:LYS:HB3	43:DW:75:ASN:H	1.55	0.41
23:DB:532:A:H5''	38:DQ:27:ARG:NH1	2.34	0.41
23:DB:533:G:C5'	38:DQ:23:TYR:CD1	3.02	0.41
42:DU:27:VAL:CG1	42:DU:33:VAL:HG22	2.50	0.41
50:B3:23:HIS:HE1	50:B3:51:LYS:HE2	1.84	0.41
50:B3:23:HIS:HB2	50:B3:24:LYS:H	1.66	0.41
32:BK:38:ILE:HA	32:BK:60:ALA:O	2.20	0.41
23:BB:583:G:H2'	23:BB:584:C:H6	1.85	0.41
1:AA:254:G:H4'	16:AQ:19:SER:OG	2.20	0.41
20:AB:67:LEU:HD21	20:AB:157:PRO:CB	2.50	0.41
23:DB:1795:C:H2'	23:DB:1796:U:H6	1.85	0.41
40:DS:7:HIS:O	40:DS:8:ARG:HB2	2.20	0.41
23:DB:1341:G:H2'	23:DB:1397:U:HO2'	1.85	0.41
41:DT:48:GLN:CG	41:DT:49:LYS:N	2.84	0.41
8:AI:56:MET:O	8:AI:58:GLU:N	2.53	0.41
31:DJ:4:PHE:HB2	31:DJ:5:THR:H	1.49	0.41
35:BN:24:MET:CE	35:BN:44:LEU:HD13	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:41:LYS:HD2	31:BJ:44:TYR:CB	2.47	0.41
39:BR:40:MET:C	39:BR:54:VAL:HG11	2.41	0.41
12:AM:14:ALA:HB1	12:AM:33:LEU:HD11	2.02	0.41
27:BE:170:ARG:HH11	27:BE:170:ARG:HG2	1.85	0.41
27:BE:149:ILE:HG23	27:BE:183:PHE:CG	2.56	0.41
3:CD:18:LEU:HD11	3:CD:59:LYS:HG3	2.02	0.41
26:DD:106:LYS:O	26:DD:206:ALA:HB2	2.20	0.41
41:BT:54:GLU:HB2	41:BT:91:GLN:HE22	1.85	0.41
23:BB:1601:G:H2'	23:BB:1602:U:O4'	2.20	0.41
41:BT:31:VAL:O	41:BT:83:ALA:O	2.38	0.41
23:BB:1655:A:H5''	26:BD:123:LYS:HZ2	1.86	0.41
26:BD:133:THR:CG2	26:BD:134:HIS:N	2.83	0.41
13:CN:56:PRO:HG2	13:CN:57:SER:H	1.85	0.41
40:DS:75:PHE:O	40:DS:103:ILE:O	2.37	0.41
23:DB:2675:A:O2'	23:DB:2676:C:H5'	2.21	0.41
23:BB:2675:A:O2'	23:BB:2676:C:H5'	2.20	0.41
25:BC:222:THR:C	25:BC:224:MET:N	2.73	0.41
23:DB:2682:A:H1'	26:DD:22:ILE:HD13	2.02	0.41
5:AF:42:TRP:CZ2	5:AF:61:LEU:HD23	2.55	0.41
7:AH:113:ARG:NH2	7:AH:114:ALA:HA	2.21	0.41
33:DL:135:ILE:N	33:DL:135:ILE:HD13	2.34	0.41
23:DB:1789:A:H5'	25:DC:220:ARG:NH2	2.35	0.41
17:AR:52:ARG:HH11	17:AR:52:ARG:CB	2.21	0.41
33:DL:38:GLN:HB2	33:DL:39:LYS:H	1.66	0.41
33:DL:38:GLN:HB2	33:DL:39:LYS:HZ3	1.85	0.41
28:DF:100:GLU:C	28:DF:102:LEU:N	2.73	0.41
4:CE:37:VAL:HA	4:CE:46:GLY:O	2.21	0.41
1:AA:969:A:H2'	1:AA:970:C:O2	2.21	0.41
42:DU:69:VAL:CG1	42:DU:77:GLY:HA2	2.50	0.41
23:BB:277:G:HO2'	23:BB:361:G:H1	1.68	0.41
3:AD:12:ARG:HG3	3:AD:33:ILE:HA	2.01	0.41
37:BP:92:ARG:N	37:BP:113:LEU:HD23	2.35	0.41
29:DG:12:ALA:C	29:DG:14:VAL:H	2.23	0.41
9:AJ:96:VAL:O	9:AJ:98:VAL:HG13	2.19	0.41
17:CR:62:ARG:HB3	17:CR:69:TYR:CE1	2.56	0.41
23:BB:328:U:C4'	42:BU:65:GLN:HG3	2.44	0.41
34:BM:108:VAL:C	34:BM:112:LEU:HD13	2.40	0.41
8:CI:30:ASN:HD21	8:CI:66:VAL:N	2.18	0.41
35:DN:86:ARG:NH1	35:DN:94:TYR:OH	2.53	0.41
25:DC:21:PRO:O	25:DC:22:GLU:CB	2.67	0.41
23:BB:118:A:H5'	23:BB:119:A:C8	2.41	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CH:72:GLU:O	7:CH:73:SER:HB2	2.20	0.41
23:BB:107:G:H2'	23:BB:108:G:H8	1.84	0.41
23:BB:79:C:H2'	23:BB:80:G:H8	1.85	0.41
7:CH:4:ASP:OD1	7:CH:76:ARG:NH1	2.54	0.41
1:AA:814:A:C5'	1:AA:1511:G:H4'	2.45	0.41
11:AL:21:PRO:HD2	11:AL:94:TYR:OH	2.20	0.41
1:AA:546:A:H4'	1:AA:548:G:O3'	2.21	0.41
1:CA:1187:G:H3'	1:CA:1188:A:H8	1.86	0.41
23:DB:2251:G:OP2	23:DB:2251:G:H8	2.03	0.41
9:CJ:66:GLU:O	13:CN:95:LEU:HA	2.20	0.41
35:DN:12:ARG:NH1	35:DN:16:HIS:HD2	2.18	0.41
22:DA:55:U:H4'	28:DF:23:SER:OG	2.20	0.41
1:AA:1281:C:H3'	1:AA:1282:C:H6	1.85	0.41
6:AG:30:MET:HA	6:AG:38:ALA:CB	2.51	0.41
8:AI:20:ILE:HD13	8:AI:85:ALA:CB	2.50	0.41
9:CJ:32:THR:HG23	9:CJ:33:GLY:N	2.31	0.41
2:CC:22:PHE:CZ	9:CJ:11:LYS:HB3	2.55	0.41
1:CA:191:G:H2'	1:CA:192:A:H8	1.85	0.41
1:AA:728:A:H2'	1:AA:729:A:C8	2.56	0.41
29:BG:129:GLU:C	29:BG:130:ILE:HD12	2.40	0.41
20:CB:205:ALA:HB3	20:CB:208:ALA:CB	2.50	0.41
18:CS:44:ILE:HG23	18:CS:62:THR:O	2.21	0.41
23:DB:941:A:H2'	23:DB:942:G:C8	2.55	0.41
23:BB:2104:C:H4'	23:BB:2104:C:OP1	2.20	0.41
23:BB:2250:G:H21	23:BB:2496:C:H4'	1.85	0.41
1:CA:601:G:O2'	1:CA:602:A:H5'	2.21	0.41
23:DB:1736:U:H2'	23:DB:1737:G:O4'	2.21	0.41
18:AS:78:THR:HG22	18:AS:79:TYR:N	2.35	0.41
28:BF:177:ARG:C	28:BF:177:ARG:NE	2.74	0.41
25:DC:162:GLN:NE2	25:DC:174:ARG:NH2	2.68	0.41
23:DB:2788:C:H2'	23:DB:2789:C:C6	2.55	0.41
23:BB:2788:C:H2'	23:BB:2789:C:C6	2.55	0.41
23:BB:2491:U:H5''	23:BB:2570:G:H5'	2.00	0.41
23:BB:1949:G:H2'	23:BB:1950:G:C8	2.55	0.41
1:CA:1162:C:H2'	1:CA:1163:A:H8	1.83	0.41
19:CT:43:LYS:HD3	19:CT:86:ALA:HB1	2.03	0.41
23:DB:1399:C:H2'	23:DB:1400:U:H6	1.83	0.41
1:AA:112:G:O2'	1:AA:113:G:H5'	2.19	0.41
1:AA:599:C:H2'	1:AA:600:A:H8	1.85	0.41
1:CA:1469:C:H2'	1:CA:1470:U:O4'	2.19	0.41
23:BB:2665:A:H2'	23:BB:2666:C:O2	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1220:G:O2'	23:DB:1221:C:H5'	2.19	0.41
23:BB:1139:G:H5'	31:BJ:104:ALA:HB1	2.02	0.41
1:CA:489:C:H2'	1:CA:490:C:H6	1.86	0.41
23:DB:787:C:H3'	23:DB:791:C:H41	1.85	0.41
23:BB:410:G:C2	23:BB:2407:A:C5	3.08	0.41
6:AG:49:LEU:HB3	6:AG:57:GLU:OE2	2.20	0.41
23:DB:2094:A:OP1	30:DH:22:LYS:HG3	2.21	0.41
38:BQ:12:ARG:O	38:BQ:15:LYS:HB3	2.20	0.41
30:BH:44:ILE:O	30:BH:47:PHE:HD2	2.04	0.41
1:CA:343:U:O2'	1:CA:344:A:H2'	2.20	0.41
1:CA:42:G:O2'	1:CA:43:C:H5'	2.20	0.41
20:AB:107:ARG:HA	20:AB:110:ILE:CD1	2.50	0.41
23:DB:1306:C:H2'	23:DB:1307:A:H8	1.84	0.41
23:DB:123:G:H2'	23:DB:124:G:C8	2.55	0.41
23:DB:1869:G:HO2'	23:DB:1871:A:H62	1.62	0.41
30:BH:53:GLU:C	30:BH:54:LEU:HD22	2.41	0.41
1:CA:1206:G:H2'	1:CA:1207:G:O4'	2.20	0.41
6:AG:8:GLN:HG2	6:AG:9:ARG:N	2.35	0.41
23:DB:1099:G:P	52:DI:3:LYS:CA	2.95	0.41
23:DB:2849:U:N3	23:DB:2867:G:H1'	2.35	0.41
37:DP:91:VAL:CG2	37:DP:92:ARG:H	2.25	0.41
27:BE:48:THR:CG2	27:BE:86:ALA:HB1	2.50	0.41
43:DW:42:THR:CB	43:DW:75:ASN:ND2	2.83	0.41
26:DD:41:ALA:C	26:DD:43:ASP:H	2.23	0.41
35:DN:36:THR:HG22	35:DN:40:LYS:HD2	2.02	0.41
25:DC:143:VAL:HG12	25:DC:144:GLU:N	2.27	0.41
36:BO:45:SER:C	36:BO:47:VAL:H	2.23	0.41
27:DE:108:ILE:HG13	27:DE:109:LEU:N	2.29	0.41
33:BL:78:ARG:HH21	33:BL:82:LEU:HB2	1.83	0.41
46:BZ:3:LYS:O	46:BZ:3:LYS:HG3	2.19	0.41
32:BK:119:ALA:O	32:BK:121:GLU:N	2.53	0.41
32:BK:87:LEU:CA	32:BK:95:ILE:HG22	2.50	0.41
34:BM:7:THR:CG2	34:BM:8:LYS:N	2.82	0.41
1:AA:255:G:H1'	16:AQ:17:GLU:OE1	2.20	0.41
46:DZ:55:GLY:HA2	46:DZ:59:ARG:CB	2.31	0.41
36:DO:25:ARG:HB2	36:DO:40:ILE:HG12	2.03	0.41
39:BR:79:ARG:HD3	39:BR:86:GLN:CD	2.40	0.41
25:BC:52:HIS:CD2	25:BC:53:ILE:HG13	2.56	0.41
8:AI:84:ARG:NH1	8:AI:84:ARG:HG2	2.34	0.41
23:DB:853:C:H2'	23:DB:854:C:C6	2.54	0.41
28:BF:56:LEU:HD23	28:BF:56:LEU:O	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1131:G:C1'	31:BJ:85:LYS:HZ2	2.34	0.41
31:BJ:80:HIS:O	31:BJ:81:ILE:C	2.59	0.41
38:BQ:60:TRP:CE2	38:BQ:93:ILE:HA	2.54	0.41
23:DB:2641:G:H5''	31:DJ:78:THR:HB	2.01	0.41
34:BM:13:HIS:O	34:BM:14:LYS:HB3	2.21	0.41
27:BE:141:MET:HB2	27:BE:143:LEU:HD22	2.02	0.41
27:BE:6:LYS:NZ	27:BE:119:ILE:H	2.18	0.41
51:B4:33:HIS:N	51:B4:33:HIS:CD2	2.79	0.41
26:DD:28:GLU:CD	26:DD:97:SER:HA	2.41	0.41
13:CN:50:LEU:N	13:CN:51:PRO:CD	2.68	0.41
1:CA:1220:G:P	13:CN:52:ARG:HH22	2.43	0.41
26:BD:159:LYS:HD3	26:BD:159:LYS:C	2.41	0.41
26:BD:124:ARG:NH2	26:BD:163:GLY:HA3	2.35	0.41
26:BD:118:PHE:CA	26:BD:164:GLN:HG3	2.50	0.41
26:BD:166:GLY:O	26:BD:167:ASN:C	2.58	0.41
1:AA:1085:U:H3'	1:AA:1086:U:H5	1.86	0.41
23:DB:2026:U:C2	23:DB:2027:G:C8	3.07	0.41
23:DB:2515:C:OP1	31:DJ:82:GLY:C	2.59	0.41
25:DC:224:MET:HB3	25:DC:225:ASN:H	1.70	0.41
35:DN:49:GLU:N	35:DN:50:PRO:HD2	2.35	0.41
28:DF:34:THR:O	28:DF:153:ILE:HA	2.20	0.41
45:DY:43:ILE:HA	45:DY:46:MET:HB2	2.01	0.41
38:DQ:89:ILE:H	38:DQ:89:ILE:CD1	2.30	0.41
39:DR:47:VAL:HG13	39:DR:48:LYS:N	2.34	0.41
2:AC:179:ALA:HB1	2:AC:202:PHE:CE1	2.40	0.41
8:CI:98:ARG:HA	8:CI:103:VAL:CG2	2.45	0.41
21:AU:36:PHE:HB3	21:AU:40:PRO:HG3	2.00	0.41
33:DL:90:VAL:HG22	33:DL:90:VAL:O	2.20	0.41
1:CA:664:G:N2	1:CA:741:G:H1	2.03	0.41
1:CA:107:G:C2'	1:CA:108:G:H5''	2.50	0.41
35:BN:13:ASN:C	35:BN:15:SER:N	2.74	0.41
28:DF:63:LYS:HD2	28:DF:64:PRO:HD2	2.02	0.41
23:BB:289:G:H2'	23:BB:290:U:O4'	2.21	0.41
32:BK:34:GLY:O	32:BK:36:GLY:N	2.53	0.41
33:DL:104:GLN:HB2	33:DL:105:ILE:H	1.60	0.41
23:BB:2693:G:H21	37:BP:95:LYS:NZ	2.18	0.41
49:D2:17:GLY:C	49:D2:18:PHE:CG	2.93	0.41
29:DG:36:LEU:HD22	29:DG:40:VAL:CG1	2.50	0.41
46:DZ:66:ILE:HB	46:DZ:67:PRO:CD	2.42	0.41
23:BB:2386:A:H2'	23:BB:2387:U:H6	1.82	0.41
25:DC:10:PRO:CD	25:DC:202:ARG:NH2	2.80	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:813:U:O2'	1:CA:814:A:H5'	2.20	0.41
9:CJ:83:THR:HG23	9:CJ:87:LEU:HD23	2.01	0.41
1:AA:177:G:P	19:AT:59:ARG:HE	2.43	0.41
1:CA:1413:A:O2'	1:CA:1414:U:H5'	2.20	0.41
23:DB:2228:G:OP1	25:DC:257:ARG:HB2	2.20	0.41
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.21	0.41
1:CA:1180:A:OP1	8:CI:104:THR:HG23	2.21	0.41
25:BC:209:ALA:C	25:BC:213:ARG:HD2	2.41	0.41
23:BB:1797:G:P	25:BC:251:THR:HG23	2.60	0.41
40:DS:72:THR:CG2	40:DS:106:VAL:HG23	2.50	0.41
15:AP:6:LEU:CD1	15:AP:71:VAL:HB	2.51	0.41
4:AE:45:VAL:HG23	4:AE:71:ILE:CG2	2.50	0.41
23:DB:1601:G:H2'	23:DB:1602:U:O4'	2.20	0.41
7:AH:87:ARG:O	7:AH:91:LEU:HG	2.21	0.41
29:DG:95:ALA:HB1	29:DG:130:ILE:CD1	2.48	0.41
3:CD:157:ALA:HA	3:CD:160:LEU:CD1	2.47	0.41
3:CD:155:LYS:C	3:CD:157:ALA:H	2.23	0.41
3:CD:160:LEU:C	3:CD:160:LEU:HD22	2.41	0.41
30:DH:57:LYS:H	30:DH:57:LYS:HG3	1.60	0.41
23:DB:1372:U:H2'	23:DB:1373:A:H8	1.85	0.41
23:BB:2527:C:O2'	51:B4:1:MET:HA	2.20	0.41
1:AA:313:A:H2'	1:AA:314:C:H6	1.82	0.41
1:AA:1179:A:O2'	1:AA:1180:A:H5'	2.20	0.41
23:DB:1685:C:H2'	23:DB:1686:C:C6	2.55	0.41
38:BQ:59:LEU:O	38:BQ:62:ALA:HB3	2.19	0.41
1:AA:136:C:H1'	15:AP:1:MET:HE1	2.02	0.41
38:DQ:25:GLY:HA2	38:DQ:29:ARG:CD	2.48	0.41
4:AE:17:VAL:HB	4:AE:34:ALA:HB2	2.03	0.41
23:BB:2425:A:H4'	23:BB:2426:A:OP2	2.19	0.41
2:CC:143:LEU:HB2	2:CC:144:GLY:H	1.67	0.41
20:AB:162:VAL:HG13	20:AB:184:ALA:CB	2.47	0.41
23:DB:1949:G:H2'	23:DB:1950:G:C8	2.55	0.41
3:CD:74:TYR:CD1	3:CD:92:LEU:HD12	2.55	0.41
23:DB:1637:A:H5'	23:DB:1760:C:O2'	2.20	0.41
6:AG:142:ARG:HB2	6:AG:142:ARG:NH1	2.35	0.41
23:DB:491:G:C2	23:DB:492:A:H1'	2.55	0.41
43:DW:21:GLY:HA2	43:DW:25:PHE:CD1	2.54	0.41
1:AA:1494:G:H2'	1:AA:1495:U:C6	2.54	0.41
14:AO:57:ARG:HH11	14:AO:57:ARG:HG3	1.85	0.41
1:CA:868:C:H2'	1:CA:869:G:O4'	2.20	0.41
23:DB:1612:C:O3'	49:D2:5:PHE:HD2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:195:ASN:HB3	3:CD:197:HIS:NE2	2.35	0.41
6:CG:16:LYS:HB3	6:CG:17:PHE:CD1	2.54	0.41
1:AA:1263:C:H2'	1:AA:1264:U:C6	2.55	0.41
23:BB:1107:G:O2'	23:BB:1108:U:H5'	2.20	0.41
23:BB:2389:G:H5''	23:BB:2390:U:O4'	2.20	0.41
49:B2:3:ARG:O	49:B2:5:PHE:N	2.53	0.41
23:DB:1998:A:H2'	23:DB:1999:C:C6	2.55	0.41
3:CD:27:ILE:O	3:CD:27:ILE:HG22	2.20	0.41
9:AJ:48:ARG:HG2	9:AJ:48:ARG:NH1	2.35	0.41
39:BR:31:GLU:HB3	39:BR:32:THR:H	1.53	0.41
1:CA:285:C:H2'	1:CA:286:C:C6	2.55	0.41
1:AA:285:C:H2'	1:AA:286:C:C6	2.56	0.41
11:AL:120:ARG:NH1	11:AL:120:ARG:HG3	2.36	0.41
23:DB:2884:U:N3	47:D0:48:TYR:CE1	2.88	0.41
23:DB:2321:U:H5''	23:DB:2321:U:O2	2.19	0.41
1:CA:605:U:H2'	1:CA:606:G:H8	1.86	0.41
40:BS:12:SER:O	40:BS:16:LYS:HB2	2.21	0.41
1:CA:580:C:H2'	1:CA:581:G:O4'	2.21	0.41
1:AA:746:A:H2'	1:AA:747:A:H8	1.86	0.41
1:CA:1184:G:C2	1:CA:1185:G:C8	3.07	0.41
1:AA:596:A:O2'	1:AA:597:G:H5'	2.20	0.41
20:CB:125:PHE:C	20:CB:127:LYS:H	2.23	0.41
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.55	0.41
26:BD:24:VAL:CG2	26:BD:193:VAL:HG11	2.27	0.41
23:DB:857:G:H2'	23:DB:858:G:C5'	2.48	0.41
23:BB:778:G:C5'	25:BC:48:ILE:HD12	2.51	0.41
25:BC:156:SER:O	25:BC:194:VAL:O	2.39	0.41
25:DC:87:SER:N	25:DC:155:ARG:NH1	2.68	0.41
31:BJ:102:GLU:HG3	31:BJ:124:VAL:HG21	2.02	0.41
23:DB:1187:G:H5''	39:DR:86:GLN:HE22	1.85	0.41
36:DO:55:GLU:O	36:DO:56:LYS:C	2.57	0.41
23:BB:299:A:H2	23:BB:319:G:N3	2.18	0.41
23:DB:1205:A:H1'	23:DB:1206:G:P	2.61	0.41
23:DB:300:A:H2'	23:DB:334:C:H1'	2.01	0.41
33:BL:60:ARG:HD3	50:B3:11:LYS:HD2	2.02	0.41
46:BZ:58:ASP:HB3	46:BZ:63:ARG:HG2	2.01	0.41
32:BK:33:ALA:CB	32:BK:39:ILE:HD11	2.50	0.41
23:DB:2090:A:C2'	46:DZ:49:ARG:NE	2.83	0.41
23:DB:1023:U:H2'	23:DB:1024:G:H5'	2.02	0.41
25:DC:252:LYS:HB3	25:DC:253:GLY:H	1.69	0.41
41:DT:66:LYS:HA	41:DT:76:ARG:HE	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BC:212:TRP:C	25:BC:214:GLY:H	2.24	0.41
23:BB:482:A:N6	23:BB:506:G:H1'	2.35	0.41
41:DT:84:TYR:O	41:DT:85:VAL:HG22	2.20	0.41
23:BB:527:C:C5'	23:BB:2779:U:H3	2.34	0.41
23:BB:2677:G:H2'	23:BB:2678:C:C6	2.55	0.41
28:BF:52:ALA:HA	28:BF:148:VAL:CG1	2.50	0.41
23:BB:1131:G:C1'	23:BB:1133:A:H62	2.24	0.41
20:CB:101:THR:HG23	20:CB:102:ASN:N	2.36	0.41
1:AA:132:C:H5''	19:AT:68:LYS:HD2	2.02	0.41
31:DJ:76:HIS:HB2	31:DJ:86:GLN:CD	2.41	0.41
41:BT:12:ARG:HE	44:BX:29:ARG:NH2	2.11	0.41
27:BE:114:ARG:HG2	27:BE:114:ARG:H	1.65	0.41
27:BE:116:ASP:HB2	27:BE:185:LYS:CA	2.36	0.41
3:CD:60:VAL:HA	3:CD:63:ILE:CG2	2.51	0.41
51:B4:15:LYS:N	51:B4:15:LYS:HD2	2.35	0.41
3:AD:123:MET:HG3	3:AD:127:ARG:C	2.40	0.41
26:DD:34:VAL:H	26:DD:90:PHE:CA	2.33	0.41
13:CN:51:PRO:CG	13:CN:52:ARG:H	2.30	0.41
23:BB:1998:A:H2'	23:BB:1999:C:H6	1.84	0.41
23:BB:1655:A:H2	23:BB:2049:G:O3'	2.03	0.41
23:DB:2511:U:O5'	23:DB:2511:U:H6	2.02	0.41
23:DB:2732:G:H3'	23:DB:2733:A:H5'	2.02	0.41
23:BB:2649:C:O2'	23:BB:2650:U:H5'	2.19	0.41
23:BB:2782:G:O2'	23:BB:2783:U:H5'	2.20	0.41
1:AA:75:G:N1	1:AA:96:U:C4	2.88	0.41
28:DF:34:THR:HB	28:DF:154:THR:O	2.21	0.41
34:DM:35:ALA:HB2	34:DM:100:LYS:NZ	2.35	0.41
26:DD:10:GLY:HA2	26:DD:23:PRO:O	2.21	0.41
1:AA:1110:A:H2'	1:AA:1111:A:C8	2.49	0.41
31:DJ:61:LYS:O	31:DJ:62:VAL:HG13	2.21	0.41
21:AU:40:PRO:HG2	21:AU:41:THR:N	2.28	0.41
37:DP:38:ARG:HG3	37:DP:39:LEU:N	2.20	0.41
19:CT:66:ILE:HG23	19:CT:70:LYS:CG	2.51	0.41
14:CO:80:LEU:CD2	14:CO:84:LEU:HD22	2.49	0.41
15:CP:44:SER:C	15:CP:46:LYS:N	2.73	0.41
35:BN:9:GLN:HE21	35:BN:17:ARG:CZ	2.32	0.41
35:BN:22:ARG:HE	35:BN:69:ARG:HE	1.67	0.41
23:BB:795:C:H2'	23:BB:796:C:C6	2.55	0.41
22:DA:52:A:H2'	22:DA:53:A:C8	2.53	0.41
45:BY:3:THR:O	45:BY:6:ILE:HD12	2.20	0.41
52:DI:100:ILE:O	52:DI:139:VAL:HG13	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AP:12:LYS:C	15:AP:14:ARG:H	2.24	0.41
20:CB:72:LYS:HD2	20:CB:164:ASP:HB3	2.02	0.41
23:DB:247:G:C6	50:D3:7:ARG:HD2	2.56	0.41
32:DK:19:VAL:O	32:DK:41:ILE:HD11	2.20	0.41
23:DB:365:U:H6	23:DB:365:U:O5'	2.02	0.41
23:DB:2677:G:H2'	23:DB:2678:C:C6	2.55	0.41
18:AS:64:GLU:OE1	18:AS:65:MET:HG3	2.20	0.41
23:DB:2073:C:O2'	23:DB:2074:U:H5'	2.20	0.41
36:BO:76:LYS:HA	36:BO:76:LYS:HD2	1.95	0.41
7:CH:100:ILE:HD12	7:CH:100:ILE:C	2.41	0.41
1:AA:813:U:O2'	1:AA:814:A:H5'	2.20	0.41
27:BE:52:VAL:C	27:BE:54:GLY:N	2.73	0.41
1:CA:1438:G:O2'	1:CA:1439:G:H5'	2.20	0.41
38:BQ:21:LYS:C	38:BQ:23:TYR:H	2.23	0.41
38:BQ:23:TYR:O	38:BQ:24:TYR:HB2	2.20	0.41
23:DB:2184:A:H2'	23:DB:2185:U:C6	2.56	0.41
35:DN:11:ASN:HA	35:DN:11:ASN:HD22	1.70	0.41
49:D2:7:PRO:O	49:D2:8:SER:CB	2.67	0.41
1:AA:119:A:H4'	1:AA:120:A:O4'	2.21	0.41
23:DB:484:C:H2'	23:DB:485:C:H6	1.84	0.41
23:BB:1841:U:H2'	23:BB:1842:G:C8	2.55	0.41
28:BF:34:THR:CG2	28:BF:89:THR:HG22	2.48	0.41
24:BV:51:GLN:NE2	24:BV:57:TYR:OH	2.53	0.41
23:BB:2469:A:C5'	34:BM:55:ARG:HG3	2.50	0.41
1:CA:1190:G:H5'	2:CC:175:HIS:HE2	1.84	0.41
2:CC:4:VAL:HG22	2:CC:5:HIS:N	2.35	0.41
1:AA:830:G:H2'	1:AA:831:A:H8	1.85	0.41
1:CA:97:G:H3'	1:CA:98:A:H8	1.85	0.41
6:CG:99:ALA:O	6:CG:103:ILE:HG13	2.20	0.41
23:DB:2273:A:H2'	23:DB:2274:A:C8	2.56	0.41
29:DG:132:LEU:O	29:DG:132:LEU:HD12	2.20	0.41
27:BE:84:THR:OG1	27:BE:85:PHE:N	2.53	0.41
23:BB:962:G:H2'	23:BB:963:U:H6	1.85	0.41
1:AA:635:A:H2'	1:AA:636:U:H6	1.85	0.41
3:AD:163:GLN:HB2	3:AD:164:ARG:HH12	1.82	0.41
23:BB:2185:U:H2'	23:BB:2186:G:C8	2.51	0.41
1:CA:1032:G:H2'	1:CA:1033:G:O4'	2.20	0.41
23:BB:175:G:H2'	23:BB:176:A:H8	1.83	0.41
23:BB:2341:G:H2'	23:BB:2342:C:C6	2.55	0.41
1:AA:600:A:H5''	7:AH:88:LYS:HD2	2.02	0.41
6:AG:142:ARG:C	6:AG:146:ALA:HB3	2.41	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1924:C:O2'	23:BB:1925:C:H5'	2.21	0.41
11:AL:79:ILE:HD13	11:AL:96:THR:HG22	2.02	0.41
23:DB:264:C:C2'	23:DB:265:A:H5''	2.50	0.41
23:BB:1297:C:OP1	23:BB:2710:C:H4'	2.20	0.41
23:BB:2034:U:O2'	23:BB:2035:G:H5'	2.21	0.41
2:AC:18:ASN:O	2:AC:55:VAL:HA	2.20	0.41
19:AT:19:HIS:CE1	19:AT:23:ARG:HG3	2.55	0.41
1:CA:340:U:H2'	1:CA:341:C:C6	2.53	0.41
50:D3:35:LYS:HG3	50:D3:35:LYS:H	1.70	0.41
22:DA:82:U:H5''	45:DY:16:LEU:HD11	2.03	0.41
1:CA:224:U:H2'	1:CA:225:C:C6	2.55	0.41
1:AA:1340:A:O2'	1:AA:1341:U:H5'	2.20	0.41
1:AA:605:U:H2'	1:AA:606:G:H8	1.86	0.41
23:DB:2659:G:N2	23:DB:2661:G:H5''	2.36	0.41
1:AA:224:U:H2'	1:AA:225:C:C6	2.56	0.41
23:DB:1281:G:H2'	23:DB:1282:U:C6	2.56	0.41
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.20	0.41
23:BB:730:A:H3'	55:BB:3597:HOH:O	2.19	0.41
33:BL:6:LEU:HD22	33:BL:6:LEU:N	2.35	0.41
52:BI:2:LYS:NZ	52:BI:2:LYS:HB3	2.36	0.41
13:CN:89:ARG:CB	13:CN:89:ARG:HH11	2.34	0.41
3:CD:32:LYS:HG3	3:CD:32:LYS:O	2.20	0.41
1:AA:903:G:H2'	1:AA:904:U:C6	2.55	0.41
23:DB:2849:U:O4'	23:DB:2868:A:C6	2.73	0.41
37:DP:50:ARG:CB	37:DP:50:ARG:HH11	2.31	0.41
26:BD:109:VAL:O	26:BD:172:VAL:HG22	2.21	0.41
43:DW:57:THR:O	43:DW:58:LEU:C	2.59	0.41
25:DC:160:TYR:CE2	25:DC:193:GLU:HG2	2.56	0.41
23:DB:6:A:H4'	31:DJ:133:ALA:C	2.41	0.41
18:AS:48:ILE:HG22	18:AS:49:ALA:N	2.35	0.41
30:BH:31:VAL:HG22	30:BH:37:VAL:HG22	2.02	0.41
27:DE:135:ALA:O	27:DE:139:LYS:N	2.53	0.41
33:BL:60:ARG:O	33:BL:60:ARG:HG3	2.20	0.41
23:DB:2092:U:H5	23:DB:2226:C:OP2	2.02	0.41
39:BR:78:ARG:HD3	39:BR:87:GLN:C	2.40	0.41
1:AA:265:G:H4'	16:AQ:66:LEU:O	2.20	0.41
1:AA:404:G:H2'	1:AA:405:U:H6	1.85	0.41
36:DO:26:LEU:HD22	36:DO:93:ASP:HA	2.02	0.41
40:BS:51:LEU:HD13	40:BS:51:LEU:C	2.41	0.41
23:BB:990:A:N3	39:BR:79:ARG:NH2	2.68	0.41
45:BY:24:LEU:HD23	45:BY:29:ARG:HH22	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DR:18:GLN:O	39:DR:19:THR:HG23	2.19	0.41
23:BB:477:A:H2'	23:BB:478:A:O4'	2.20	0.41
23:DB:1394:U:O2'	23:DB:1395:A:H5'	2.21	0.41
31:DJ:38:GLY:O	31:DJ:41:LYS:HD3	2.21	0.41
31:DJ:48:VAL:HG12	31:DJ:49:ASP:N	2.35	0.41
28:BF:133:GLU:CD	28:BF:150:GLY:H	2.24	0.41
28:BF:133:GLU:OE1	28:BF:150:GLY:N	2.53	0.41
28:BF:87:LYS:O	28:BF:88:VAL:HB	2.20	0.41
23:BB:1131:G:C1'	31:BJ:85:LYS:NZ	2.83	0.41
34:DM:71:LYS:HZ3	34:DM:71:LYS:CA	2.29	0.41
31:BJ:109:LEU:O	31:BJ:111:LYS:HG3	2.21	0.41
39:BR:42:ALA:C	39:BR:44:GLY:H	2.23	0.41
23:DB:2642:G:H5''	31:DJ:80:HIS:HB2	2.02	0.41
47:B0:32:THR:HG21	47:B0:35:GLU:HB3	2.02	0.41
3:CD:158:LEU:CD1	3:CD:177:MET:HG2	2.50	0.41
3:CD:93:LEU:HA	3:CD:96:ARG:HG3	2.03	0.41
51:B4:7:VAL:HB	51:B4:35:GLN:HE21	1.85	0.41
30:DH:127:GLU:HB2	30:DH:143:ILE:CG2	2.50	0.41
9:CJ:57:VAL:HG22	9:CJ:58:ASN:N	2.26	0.41
21:AU:33:ARG:CZ	21:AU:34:ARG:HG3	2.50	0.41
21:AU:33:ARG:HB3	21:AU:34:ARG:H	1.64	0.41
10:CK:82:GLU:HB3	10:CK:108:ASN:HB3	2.02	0.41
43:DW:3:LYS:HA	43:DW:3:LYS:HZ2	1.79	0.41
26:BD:89:GLU:C	26:BD:91:THR:H	2.23	0.41
23:DB:928:A:H1'	45:DY:1:ALA:CA	2.48	0.41
45:DY:2:LYS:H	45:DY:37:ARG:HB2	1.83	0.41
23:DB:2032:G:N2	26:DD:150:GLN:HB3	2.36	0.41
29:BG:29:ASN:N	29:BG:29:ASN:ND2	2.68	0.41
10:AK:122:PRO:CG	21:AU:35:GLU:HG2	2.51	0.41
23:BB:724:U:O2'	23:BB:725:G:H5'	2.21	0.41
6:AG:21:LEU:HG	6:AG:22:LEU:H	1.84	0.41
6:AG:22:LEU:O	6:AG:26:VAL:HG13	2.19	0.41
23:BB:466:A:H2	23:BB:795:C:O2	2.03	0.41
1:AA:1005:A:O2'	1:AA:1006:G:H5'	2.21	0.41
35:DN:72:ASP:OD2	35:DN:75:ILE:HG23	2.20	0.41
35:DN:75:ILE:HG13	35:DN:76:VAL:N	2.36	0.41
2:AC:14:VAL:HG23	2:AC:15:LYS:HG2	2.03	0.41
2:AC:7:ASN:OD1	2:AC:183:TYR:HB3	2.21	0.41
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.35	0.41
28:DF:136:ILE:HG22	28:DF:137:PHE:N	2.35	0.41
33:BL:21:ARG:CZ	33:BL:21:ARG:HB3	2.50	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CI:15:ALA:O	8:CI:66:VAL:HA	2.21	0.41
34:DM:129:THR:O	34:DM:131:VAL:HG12	2.20	0.41
9:CJ:73:LEU:C	9:CJ:73:LEU:HD13	2.41	0.41
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.20	0.41
23:BB:2385:C:H2'	23:BB:2386:A:H8	1.86	0.41
23:DB:2070:A:H2'	23:DB:2071:A:O4'	2.20	0.41
23:DB:2072:C:H2'	23:DB:2073:C:C6	2.54	0.41
11:CL:29:LYS:O	11:CL:81:ILE:N	2.50	0.41
23:DB:2204:G:C5'	25:DC:149:LYS:HE3	2.50	0.41
41:BT:70:HIS:CG	41:BT:74:ILE:HB	2.55	0.41
46:DZ:28:VAL:HG23	46:DZ:29:GLY:H	1.85	0.41
14:CO:30:LEU:O	14:CO:34:GLN:HG3	2.20	0.41
42:DU:42:LYS:N	42:DU:57:ILE:HD12	2.28	0.41
23:DB:2101:A:O2'	23:DB:2102:G:H5'	2.21	0.41
23:BB:1299:G:C5'	23:BB:1301:A:H1'	2.51	0.41
23:DB:179:C:OP1	49:D2:28:ARG:HD3	2.18	0.41
4:AE:95:MET:CE	4:AE:114:LEU:HD11	2.51	0.41
23:BB:2198:A:N6	30:BH:25:TYR:HE1	2.18	0.41
23:DB:1903:G:OP1	25:DC:239:PHE:CD2	2.74	0.41
3:AD:32:LYS:HB3	3:AD:35:GLN:CG	2.50	0.41
46:DZ:34:LEU:HB3	46:DZ:35:ASP:H	1.54	0.41
27:BE:25:GLU:CD	33:BL:17:LYS:HG2	2.40	0.41
29:DG:132:LEU:C	29:DG:132:LEU:HD12	2.40	0.41
1:CA:1133:G:H2'	1:CA:1134:G:O4'	2.21	0.41
1:CA:371:A:H2'	1:CA:372:C:C6	2.54	0.41
13:AN:20:PHE:CG	13:AN:24:ALA:HB2	2.56	0.41
32:BK:20:MET:HB3	32:BK:42:THR:HB	2.01	0.41
23:DB:866:A:N1	23:DB:913:U:H4'	2.36	0.41
23:DB:281:C:H2'	23:DB:282:A:C8	2.56	0.41
25:BC:265:PHE:HB3	25:BC:266:ILE:H	1.74	0.41
1:CA:828:U:O2'	20:CB:24:PRO:HB3	2.20	0.41
1:AA:738:C:H2'	1:AA:739:C:H6	1.86	0.41
1:CA:79:G:H2'	1:CA:80:A:H8	1.83	0.41
23:DB:374:A:H2'	23:DB:375:G:O4'	2.21	0.41
49:B2:21:ARG:CB	49:B2:31:LEU:HD21	2.49	0.41
1:AA:551:U:H2'	1:AA:552:U:H6	1.86	0.41
23:BB:15:G:H2'	23:BB:16:C:H6	1.84	0.41
23:BB:2825:G:C2'	23:BB:2826:A:H5'	2.51	0.41
23:DB:1434:A:OP1	23:DB:1434:A:H4'	2.20	0.41
39:DR:27:ILE:HG23	39:DR:27:ILE:O	2.20	0.41
23:BB:2710:C:H2'	23:BB:2711:A:C8	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2034:U:O2'	23:DB:2035:G:H5'	2.20	0.41
1:AA:489:C:H2'	1:AA:490:C:H6	1.86	0.41
23:DB:1345:C:H5'	23:DB:1396:U:H5	1.85	0.41
1:AA:66:A:O2'	1:AA:67:C:H5'	2.21	0.41
1:CA:1363:A:O2'	1:CA:1365:G:N7	2.45	0.41
29:DG:104:LEU:HD12	29:DG:106:LEU:HD21	2.02	0.41
23:BB:2457:U:C2'	23:BB:2458:G:H5'	2.49	0.41
23:BB:1281:G:H2'	23:BB:1282:U:C6	2.56	0.41
23:BB:1498:C:H2'	23:BB:1499:C:H6	1.86	0.41
23:DB:1977:A:H2'	23:DB:1978:A:O4'	2.21	0.41
20:AB:45:THR:HA	20:AB:48:MET:CG	2.51	0.41
1:AA:68:G:H5'	1:AA:171:A:O2'	2.21	0.41
1:CA:644:U:O2'	1:CA:645:G:H5'	2.20	0.41
1:AA:1395:C:H2'	1:AA:1395:C:O2	2.21	0.41
33:DL:143:GLU:HG2	33:DL:143:GLU:O	2.20	0.41
1:AA:666:G:H5'	1:AA:726:C:H1'	2.03	0.41
37:DP:28:LYS:HZ2	37:DP:44:GLY:H	1.67	0.41
37:BP:59:THR:O	37:BP:59:THR:HG22	2.20	0.41
23:BB:2205:A:H2'	23:BB:2206:C:H6	1.86	0.41
30:DH:9:VAL:O	30:DH:11:ASN:N	2.54	0.41
35:DN:38:LEU:O	35:DN:41:ALA:HB3	2.21	0.41
25:DC:107:LYS:HD2	25:DC:196:ASN:ND2	2.36	0.41
31:BJ:102:GLU:HG2	31:BJ:103:ILE:N	2.35	0.41
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.55	0.41
18:AS:40:PHE:CG	18:AS:41:PRO:HD2	2.56	0.41
15:AP:40:ASN:HD21	15:AP:42:ILE:CG1	2.33	0.41
34:BM:69:PRO:HB2	34:BM:70:ASP:H	1.62	0.41
24:BV:80:HIS:CD2	24:BV:81:PRO:HD2	2.56	0.41
1:AA:407:U:H3'	1:AA:408:A:H8	1.85	0.41
3:AD:109:THR:HG23	3:AD:112:GLU:H	1.86	0.41
35:BN:29:VAL:HG22	35:BN:83:LEU:CD2	2.48	0.41
23:BB:1133:A:N6	23:BB:2025:C:O2'	2.54	0.41
38:BQ:80:ASN:HD22	38:BQ:80:ASN:HA	1.66	0.41
46:DZ:54:GLY:N	46:DZ:57:VAL:HG23	2.15	0.41
20:CB:156:LEU:HD11	20:CB:178:LEU:CD1	2.33	0.41
31:DJ:84:ILE:CG1	31:DJ:85:LYS:H	2.33	0.41
27:BE:6:LYS:HB2	27:BE:12:LEU:HD11	2.01	0.41
23:DB:921:C:C2	23:DB:922:C:C5	3.09	0.41
51:B4:10:LEU:O	51:B4:11:CYS:HB3	2.21	0.41
10:AK:95:THR:HG23	10:AK:96:ILE:HG13	2.01	0.41
23:DB:1449:G:H2'	23:DB:1450:G:C8	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BD:138:LEU:CD2	26:BD:138:LEU:N	2.79	0.41
26:BD:138:LEU:HD23	26:BD:138:LEU:N	2.26	0.41
26:BD:141:ARG:O	26:BD:142:VAL:C	2.58	0.41
26:BD:165:MET:CE	26:BD:166:GLY:H	2.31	0.41
35:BN:1:MET:SD	35:BN:2:ARG:HB2	2.60	0.41
23:BB:545:U:C2	23:BB:548:G:OP2	2.74	0.41
10:CK:110:THR:HG22	21:CU:4:LYS:HA	2.02	0.41
27:DE:15:SER:HB3	27:DE:196:VAL:HG13	2.02	0.41
23:DB:834:G:H2'	23:DB:835:C:C6	2.55	0.41
26:BD:3:GLY:HA3	26:BD:49:GLN:HE22	1.86	0.41
45:DY:26:LEU:HD23	45:DY:26:LEU:N	2.35	0.41
32:DK:99:ILE:O	32:DK:119:ALA:HB2	2.20	0.41
23:BB:2372:U:H1'	48:B1:45:HIS:CE1	2.56	0.41
20:CB:116:LEU:HD22	20:CB:140:LEU:CD2	2.41	0.41
4:CE:89:THR:HG22	4:CE:91:SER:N	2.22	0.41
15:CP:28:ARG:C	15:CP:30:GLY:H	2.24	0.41
52:BI:130:GLY:HA2	52:BI:133:ARG:NH2	2.35	0.41
23:DB:794:A:C4	23:DB:795:C:C5	3.09	0.41
2:AC:35:ASP:O	2:AC:38:VAL:HG22	2.21	0.41
2:AC:86:LEU:O	2:AC:90:VAL:HG22	2.20	0.41
23:DB:1064:C:O2'	23:DB:1065:U:H5'	2.20	0.41
48:D1:49:LYS:C	48:D1:49:LYS:HD2	2.41	0.41
1:AA:91:U:C4	1:AA:92:U:C4	3.09	0.41
1:AA:92:U:O2'	1:AA:93:U:H5'	2.20	0.41
23:BB:2270:A:C4'	43:BW:18:LYS:HB3	2.49	0.41
50:B3:34:LYS:HB3	50:B3:35:LYS:CE	2.50	0.41
11:CL:49:ARG:HD3	11:CL:89:LEU:HD21	2.01	0.41
1:AA:878:A:H2'	1:AA:879:C:C6	2.56	0.41
6:CG:24:LYS:HA	6:CG:27:ASN:HD22	1.85	0.41
25:DC:28:PRO:CG	25:DC:79:ARG:HE	2.34	0.41
34:DM:119:LEU:CD2	34:DM:119:LEU:H	2.34	0.41
50:D3:4:LYS:HZ1	50:D3:60:CYS:HB3	1.86	0.41
28:BF:32:LYS:HD2	28:BF:89:THR:HB	2.01	0.41
8:AI:24:ASN:C	8:AI:26:LYS:HZ2	2.24	0.41
23:BB:1593:A:H2'	23:BB:1594:U:O4'	2.20	0.41
23:DB:570:G:C2'	23:DB:571:U:H5'	2.51	0.41
23:DB:523:C:H4'	23:DB:540:C:O2	2.21	0.41
23:BB:1372:U:H2'	23:BB:1373:A:C8	2.55	0.41
20:AB:76:SER:OG	20:AB:92:ASN:HB2	2.21	0.41
1:CA:1190:G:H5'	2:CC:175:HIS:NE2	2.36	0.41
29:BG:97:VAL:HG21	29:BG:123:GLU:HA	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:207:C:O2'	1:CA:208:U:H5'	2.20	0.41
4:CE:64:GLU:HA	4:CE:67:ARG:HH12	1.85	0.41
46:DZ:17:SER:H	46:DZ:21:VAL:HG12	1.85	0.41
14:AO:58:MET:HG2	14:AO:58:MET:H	1.68	0.41
23:BB:599:A:H2'	23:BB:600:G:H8	1.84	0.41
1:AA:1300:G:C2'	1:AA:1301:U:OP2	2.69	0.41
23:DB:2681:C:OP2	26:DD:114:LYS:HE3	2.20	0.41
29:DG:154:GLU:OE2	29:DG:159:LYS:HB2	2.21	0.41
23:DB:432:A:H2'	23:DB:433:C:O4'	2.20	0.41
1:CA:162:A:H2'	1:CA:163:C:O4'	2.20	0.41
24:DV:48:MET:O	24:DV:51:GLN:HG3	2.20	0.41
23:BB:1097:U:H2'	23:BB:1098:A:C5'	2.50	0.41
23:DB:1460:U:H5''	23:DB:1461:C:C6	2.56	0.41
1:CA:1293:C:H2'	1:CA:1294:G:O4'	2.20	0.41
22:BA:12:C:H41	43:BW:50:VAL:HG23	1.86	0.41
17:CR:20:ILE:HD12	17:CR:53:GLN:NE2	2.34	0.41
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.86	0.41
23:DB:2221:G:H2'	23:DB:2222:C:C6	2.56	0.41
19:AT:54:GLN:N	19:AT:55:PRO:CD	2.82	0.41
23:BB:1945:G:H2'	23:BB:1946:U:H6	1.81	0.41
1:CA:688:G:H5'	10:CK:48:GLY:CA	2.50	0.41
23:BB:1036:G:C6	23:BB:1120:G:C6	3.07	0.41
40:BS:85:ILE:HG22	40:BS:86:MET:N	2.35	0.41
1:CA:857:C:O2'	1:CA:858:G:H5'	2.21	0.41
34:DM:105:MET:O	34:DM:106:ASP:C	2.59	0.41
52:DI:9:LYS:HG2	52:DI:57:VAL:HG22	2.03	0.41
23:DB:2668:G:O2'	23:DB:2669:G:H5'	2.20	0.41
23:BB:2668:G:O2'	23:BB:2669:G:H5'	2.20	0.41
23:DB:2191:A:H2'	23:DB:2192:U:H6	1.83	0.41
9:CJ:44:THR:HG23	9:CJ:70:HIS:HA	2.02	0.41
22:BA:81:G:H2'	22:BA:82:U:C6	2.55	0.41
25:DC:59:GLN:HB2	25:DC:60:ALA:H	1.64	0.41
23:DB:82:U:H2'	23:DB:83:A:O4'	2.20	0.41
23:BB:32:C:H5'	23:BB:1238:G:OP1	2.19	0.41
23:DB:1678:A:C2'	23:DB:1679:A:H5'	2.50	0.41
15:AP:44:SER:O	15:AP:45:GLU:C	2.59	0.41
1:CA:821:G:H2'	1:CA:822:U:C6	2.55	0.41
45:BY:8:GLN:NE2	45:BY:23:LEU:HD21	2.35	0.41
29:DG:104:LEU:N	29:DG:112:VAL:O	2.51	0.41
1:AA:989:U:H2'	1:AA:990:C:H6	1.85	0.41
23:BB:2659:G:N2	23:BB:2661:G:H5''	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:2686:G:H2'	23:DB:2687:U:C6	2.55	0.41
28:DF:48:LEU:C	28:DF:50:ASP:H	2.24	0.41
23:DB:63:A:OP2	23:DB:63:A:H8	2.04	0.41
1:CA:928:G:O2'	1:CA:929:G:H5'	2.20	0.41
3:AD:176:LYS:O	3:AD:177:MET:C	2.59	0.41
23:DB:1893:C:H2'	23:DB:1894:C:O4'	2.21	0.41
23:BB:484:C:H2'	23:BB:485:C:H6	1.85	0.41
23:DB:811:U:H2'	33:DL:32:GLY:HA2	2.02	0.41
23:BB:490:C:H4'	23:BB:491:G:OP2	2.20	0.41
23:DB:413:C:O5'	23:DB:413:C:H6	2.04	0.41
6:AG:10:LYS:NZ	6:AG:10:LYS:HB2	2.36	0.41
1:CA:596:A:O2'	1:CA:597:G:H5'	2.20	0.41
2:CC:111:ASP:O	2:CC:112:ALA:HB3	2.21	0.41
37:DP:91:VAL:O	37:DP:92:ARG:HB3	2.21	0.41
42:BU:6:ARG:C	42:BU:8:ASP:N	2.73	0.41
36:BO:60:GLU:HG3	36:BO:61:GLN:N	2.35	0.41
36:BO:64:TYR:HD1	36:BO:74:VAL:HG21	1.84	0.41
27:BE:45:ALA:HB3	27:BE:89:PRO:HA	2.02	0.41
26:BD:11:MET:CE	37:BP:9:GLN:HG2	2.51	0.41
23:DB:2259:U:C2	23:DB:2260:C:C6	3.09	0.41
30:DH:3:VAL:CB	30:DH:37:VAL:HG11	2.50	0.41
43:BW:54:ARG:HH11	43:BW:54:ARG:CG	2.31	0.41
1:AA:1221:G:O2'	1:AA:1222:G:H5'	2.20	0.41
27:BE:132:LYS:HG3	27:BE:132:LYS:H	1.55	0.41
42:BU:82:VAL:HG12	42:BU:83:GLY:N	2.35	0.41
23:BB:967:U:C2	23:BB:968:C:C5	3.09	0.41
23:BB:968:C:H4'	45:BY:16:LEU:HD23	2.03	0.41
46:BZ:21:VAL:HG12	46:BZ:23:LYS:HG2	2.03	0.41
23:BB:2467:C:H1'	34:BM:118:LYS:HG2	2.01	0.41
16:AQ:56:ASP:C	16:AQ:79:GLU:HB3	2.40	0.41
11:AL:5:GLN:HA	11:AL:8:ARG:NE	2.35	0.41
25:DC:265:PHE:HB3	25:DC:266:ILE:H	1.75	0.41
40:BS:6:LYS:CB	40:BS:104:THR:HG22	2.50	0.41
23:BB:989:G:OP1	23:BB:1157:G:H4'	2.20	0.41
39:DR:35:PHE:O	39:DR:63:VAL:HG23	2.20	0.41
42:BU:60:LYS:CG	42:BU:61:GLU:N	2.84	0.41
41:DT:61:LEU:O	41:DT:62:VAL:HG13	2.21	0.41
28:BF:36:ASN:HB2	28:BF:87:LYS:CA	2.33	0.41
18:CS:28:LYS:HB2	18:CS:29:PRO:HD2	2.02	0.41
25:BC:81:GLU:O	25:BC:90:ILE:HG22	2.21	0.41
25:BC:90:ILE:HG23	25:BC:91:ALA:N	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BJ:34:ARG:CG	31:BJ:39:LYS:HD2	2.50	0.41
12:AM:12:LYS:CB	12:AM:17:ALA:HB2	2.51	0.41
12:AM:12:LYS:HB3	12:AM:17:ALA:HB2	2.02	0.41
51:B4:2:LYS:HB3	51:B4:2:LYS:HZ2	1.86	0.41
10:AK:88:PRO:HA	10:AK:92:ARG:CD	2.51	0.41
18:CS:14:LEU:C	18:CS:14:LEU:HD12	2.41	0.41
16:CQ:64:ARG:HH11	16:CQ:64:ARG:CB	2.34	0.41
23:BB:2512:C:H5''	26:BD:125:TRP:CZ3	2.56	0.41
23:BB:1656:C:OP1	26:BD:141:ARG:HD3	2.21	0.41
26:BD:165:MET:CG	26:BD:166:GLY:H	2.33	0.41
13:CN:12:ARG:HD3	13:CN:58:ARG:O	2.20	0.41
1:AA:1505:G:H5''	1:AA:1506:U:O5'	2.21	0.41
26:DD:160:LYS:O	26:DD:161:MET:C	2.58	0.41
52:DI:131:THR:O	52:DI:135:MET:HG3	2.21	0.41
28:DF:35:LEU:CD2	28:DF:153:ILE:HG12	2.51	0.41
8:CI:10:ARG:HA	8:CI:14:SER:O	2.21	0.41
14:AO:63:ARG:NH1	14:AO:63:ARG:HB3	2.35	0.41
39:DR:20:VAL:HA	39:DR:97:LYS:O	2.20	0.41
1:AA:967:C:OP1	1:AA:969:A:C8	2.74	0.41
12:AM:21:ILE:C	12:AM:23:GLY:H	2.24	0.41
2:AC:17:TRP:C	2:AC:19:SER:H	2.23	0.41
2:AC:38:VAL:CG2	2:AC:39:ARG:N	2.83	0.41
29:DG:156:TYR:HD1	29:DG:171:LYS:HG2	1.85	0.41
48:D1:13:SER:HB3	48:D1:49:LYS:HZ1	1.84	0.41
48:D1:8:ILE:HG23	48:D1:9:LYS:N	2.35	0.41
23:BB:1196:C:H2'	23:BB:1197:G:C8	2.56	0.41
36:BO:30:ARG:O	36:BO:31:THR:O	2.39	0.41
8:AI:12:LYS:N	8:AI:109:GLN:HE22	2.13	0.41
23:DB:2070:A:C2	23:DB:2442:C:C2	3.09	0.41
29:DG:2:ARG:HD2	29:DG:2:ARG:O	2.21	0.41
11:AL:113:ARG:HA	11:AL:118:VAL:CG2	2.51	0.41
23:BB:2285:C:H41	48:B1:24:LYS:HZ2	1.69	0.41
1:CA:1510:C:H2'	1:CA:1511:G:C8	2.56	0.41
1:CA:1170:A:H5''	20:CB:138:ARG:HH22	1.84	0.41
33:DL:66:PHE:CD2	33:DL:67:THR:N	2.89	0.41
23:BB:1827:U:C2'	23:BB:1828:G:H5'	2.51	0.41
23:DB:484:C:H2'	23:DB:485:C:C6	2.54	0.41
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.20	0.41
1:AA:191:G:H2'	1:AA:192:A:C8	2.56	0.41
1:AA:191:G:H2'	1:AA:192:A:H8	1.86	0.41
23:BB:2094:A:H5'	30:BH:25:TYR:CD1	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:191:G:H2'	1:CA:192:A:C8	2.56	0.41
23:BB:844:A:C2	23:BB:845:A:N1	2.89	0.41
23:BB:558:U:C5'	31:BJ:114:LEU:HD22	2.51	0.41
23:BB:834:G:O2'	50:B3:50:SER:HB3	2.21	0.41
6:CG:70:PRO:HD3	6:CG:102:TRP:CZ3	2.56	0.41
29:DG:145:ALA:HB2	29:DG:163:TYR:OH	2.20	0.41
36:BO:103:VAL:HG23	36:BO:104:GLN:N	2.35	0.41
23:DB:1446:C:H2'	23:DB:1447:C:H6	1.86	0.41
1:CA:1128:C:H2'	1:CA:1129:C:O4'	2.21	0.41
3:CD:115:GLN:HE21	3:CD:153:ARG:HH12	1.66	0.41
23:DB:31:C:C2'	23:DB:32:C:H5'	2.51	0.41
30:BH:141:LYS:HE2	30:BH:141:LYS:HB2	1.86	0.41
1:AA:1010:U:H2'	1:AA:1011:C:H6	1.86	0.41
1:CA:1294:G:H2'	1:CA:1295:U:C6	2.56	0.41
23:DB:1744:A:O2'	23:DB:1745:A:H5'	2.21	0.41
1:AA:619:U:C2	3:AD:131:ILE:HD12	2.56	0.41
23:BB:2096:C:H2'	23:BB:2097:A:H8	1.86	0.41
20:CB:173:LYS:HD2	20:CB:173:LYS:C	2.41	0.41
23:BB:2653:U:H2'	23:BB:2654:A:C8	2.55	0.41
23:DB:622:G:H2'	23:DB:623:C:H6	1.86	0.41
4:AE:89:THR:HG21	4:AE:134:ASN:ND2	2.36	0.41
1:CA:844:G:H2'	1:CA:845:A:H5''	2.01	0.41
4:AE:35:LEU:HD21	4:AE:47:PHE:HB2	2.02	0.41
23:BB:1434:A:OP1	23:BB:1434:A:H4'	2.20	0.41
1:AA:857:C:O2'	1:AA:858:G:H5'	2.21	0.41
35:DN:14:SER:HA	35:DN:17:ARG:CZ	2.51	0.41
19:CT:24:ARG:HG3	19:CT:65:LEU:HD11	2.03	0.41
23:DB:1322:A:C5	23:DB:1323:C:C5	3.08	0.41
34:BM:105:MET:HE3	34:BM:106:ASP:C	2.41	0.41
14:AO:15:GLY:C	14:AO:17:ASP:H	2.24	0.41
1:AA:42:G:O2'	1:AA:43:C:H5'	2.20	0.41
23:BB:689:A:H2'	23:BB:690:G:H8	1.85	0.41
50:D3:38:LYS:N	50:D3:38:LYS:HD2	2.36	0.41
23:DB:1498:C:H2'	23:DB:1499:C:H6	1.86	0.41
9:CJ:92:LEU:O	9:CJ:93:ALA:HB2	2.21	0.41
33:BL:4:ASN:O	33:BL:6:LEU:HD22	2.21	0.41
1:AA:102:G:N3	1:AA:151:A:H2	2.19	0.41
19:CT:11:ILE:HG13	19:CT:12:GLN:N	2.36	0.41
12:CM:13:HIS:HB2	12:CM:16:ILE:HG22	2.02	0.41
29:DG:121:THR:HG22	29:DG:122:ALA:H	1.86	0.41
1:CA:1043:G:C2'	1:CA:1044:A:O5'	2.68	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:67:U:H2'	23:DB:68:G:O4'	2.21	0.41
23:DB:1099:G:C5'	52:DI:3:LYS:CA	2.99	0.41
37:DP:61:ARG:CB	37:DP:61:ARG:CZ	2.98	0.41
37:DP:91:VAL:O	37:DP:92:ARG:CB	2.69	0.41
27:DE:48:THR:CG2	27:DE:85:PHE:N	2.84	0.41
44:DX:41:HIS:ND1	44:DX:43:LEU:HD23	2.36	0.41
44:DX:40:SER:OG	44:DX:42:LEU:HD23	2.20	0.41
42:BU:9:GLU:CG	42:BU:23:LYS:HB3	2.51	0.41
42:BU:71:ILE:HG21	42:BU:95:PHE:CE1	2.55	0.41
32:BK:108:ARG:HG3	32:BK:108:ARG:NH1	2.36	0.41
51:D4:36:ARG:NH1	51:D4:36:ARG:HG2	2.34	0.41
51:D4:15:LYS:C	51:D4:17:VAL:N	2.74	0.41
51:D4:23:ILE:CD1	51:D4:24:ARG:HH11	2.34	0.41
25:BC:160:TYR:CD2	25:BC:193:GLU:HG2	2.56	0.41
25:BC:107:LYS:H	25:BC:194:VAL:CG2	2.31	0.41
25:BC:185:ALA:C	25:BC:187:CYS:H	2.24	0.41
25:BC:143:VAL:HG12	25:BC:187:CYS:SG	2.61	0.41
25:DC:163:ILE:HA	25:DC:173:LEU:HD23	2.03	0.41
25:DC:173:LEU:HD12	25:DC:183:VAL:CG1	2.48	0.41
25:DC:103:ILE:HG22	25:DC:104:LEU:N	2.36	0.41
31:DJ:128:ASN:O	31:DJ:130:HIS:N	2.54	0.41
31:BJ:125:TYR:CE2	31:BJ:134:ALA:HB2	2.56	0.41
23:BB:1142:A:C4	23:BB:1144:A:C8	3.08	0.41
43:BW:81:ILE:HG13	43:BW:82:GLU:HG2	2.03	0.41
33:DL:33:ARG:HB3	39:DR:85:LYS:NZ	2.35	0.41
23:DB:301:G:C4	23:DB:302:C:C6	3.09	0.41
42:DU:26:ASN:O	42:DU:28:LEU:HG	2.21	0.41
33:BL:118:THR:OG1	33:BL:119:PRO:HD3	2.20	0.41
33:BL:84:LYS:O	33:BL:85:VAL:CB	2.69	0.41
45:BY:16:LEU:CB	45:BY:17:PRO:CD	2.91	0.41
46:BZ:3:LYS:HG3	46:BZ:6:HIS:O	2.21	0.41
46:DZ:1:MET:HG3	46:DZ:9:TYR:CE2	2.56	0.41
34:BM:45:GLN:CG	34:BM:120:ALA:HA	2.51	0.41
34:BM:8:LYS:NZ	34:BM:69:PRO:HG2	2.36	0.41
24:BV:87:GLN:N	24:BV:87:GLN:NE2	2.69	0.41
23:BB:2019:A:O2'	38:BQ:32:ARG:NH2	2.54	0.41
23:BB:1225:G:C5'	39:BR:78:ARG:NH2	2.84	0.41
23:BB:2617:U:O2'	23:BB:2618:G:H5'	2.21	0.41
23:BB:2020:A:OP1	38:BQ:25:GLY:HA3	2.20	0.41
16:AQ:8:GLN:HA	16:AQ:58:VAL:O	2.21	0.41
26:DD:197:THR:CG2	26:DD:198:GLY:H	2.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:401:C:H2'	1:AA:402:G:H8	1.86	0.41
36:DO:10:ARG:HD2	36:DO:94:ARG:HG3	2.02	0.41
26:BD:170:VAL:CG1	26:BD:194:PRO:HG2	2.51	0.41
31:DJ:36:LEU:O	31:DJ:51:GLY:HA2	2.21	0.41
8:AI:35:GLU:N	8:AI:35:GLU:OE2	2.54	0.41
8:AI:56:MET:HA	8:AI:59:LYS:HB2	2.03	0.41
1:CA:1317:C:H42	18:CS:36:ARG:NH2	2.18	0.41
23:BB:2026:U:H2'	23:BB:2027:G:C8	2.55	0.41
31:BJ:84:ILE:CG2	31:BJ:85:LYS:H	2.31	0.41
25:BC:24:HIS:HB3	25:BC:27:LYS:HE3	2.03	0.41
23:BB:1568:G:H5''	25:BC:60:ALA:HB3	2.02	0.41
23:DB:869:G:H2'	23:DB:870:U:O4'	2.20	0.41
38:BQ:108:LEU:HD21	39:BR:52:PRO:O	2.21	0.41
31:BJ:35:ARG:C	31:BJ:37:ARG:H	2.24	0.41
27:BE:190:ALA:HB1	27:BE:193:VAL:CB	2.50	0.41
27:BE:146:VAL:HG23	27:BE:148:ILE:HG23	2.02	0.41
27:BE:153:LEU:HD11	27:BE:193:VAL:HG11	2.02	0.41
43:DW:18:LYS:HG3	43:DW:19:ARG:N	2.36	0.41
51:B4:11:CYS:SG	51:B4:12:ARG:N	2.94	0.41
51:B4:24:ARG:NH2	51:B4:36:ARG:HH11	2.19	0.41
26:DD:26:VAL:HG13	26:DD:26:VAL:O	2.21	0.41
49:B2:9:VAL:O	49:B2:12:ARG:HB2	2.20	0.41
23:BB:137:U:H2'	23:BB:138:U:C5'	2.51	0.41
30:BH:66:ASN:OD1	30:BH:138:VAL:HG11	2.20	0.41
26:BD:140:HIS:O	26:BD:142:VAL:N	2.54	0.41
26:BD:145:SER:C	26:BD:146:ILE:HD12	2.40	0.41
23:BB:2720:U:H2'	23:BB:2721:A:C8	2.55	0.41
40:DS:20:VAL:O	40:DS:24:ILE:HG13	2.21	0.41
23:DB:1655:A:H2'	23:DB:1656:C:O4'	2.21	0.41
50:D3:32:LEU:HA	50:D3:32:LEU:HD22	1.93	0.41
20:AB:202:ASN:ND2	20:AB:204:ASP:N	2.60	0.41
26:BD:46:ARG:HD2	26:BD:80:TRP:CH2	2.55	0.41
45:DY:24:LEU:C	45:DY:26:LEU:N	2.74	0.41
45:DY:5:LYS:NZ	45:DY:5:LYS:CB	2.84	0.41
5:AF:38:ARG:HH21	5:AF:96:VAL:CG1	2.33	0.41
5:AF:7:VAL:HB	5:AF:61:LEU:HD22	2.03	0.41
2:AC:178:ARG:O	2:AC:206:ILE:HA	2.21	0.41
2:AC:176:THR:O	2:AC:179:ALA:HB3	2.21	0.41
4:CE:109:ALA:HB1	4:CE:136:VAL:CG1	2.49	0.41
21:CU:35:GLU:OE1	21:CU:35:GLU:HA	2.20	0.41
10:AK:122:PRO:HG2	21:AU:35:GLU:HG2	2.02	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AH:113:ARG:HE	7:AH:113:ARG:C	2.23	0.41
8:CI:56:MET:C	8:CI:58:GLU:N	2.73	0.41
23:BB:723:C:H2'	23:BB:724:U:H6	1.84	0.41
28:DF:99:PHE:CD1	28:DF:102:LEU:HD23	2.56	0.41
19:AT:20:ASN:HA	19:AT:65:LEU:HD21	2.02	0.41
20:AB:96:LEU:HD23	20:AB:99:MET:CE	2.50	0.41
23:DB:443:A:C8	27:DE:40:ARG:HG2	2.55	0.41
3:AD:89:LEU:O	3:AD:92:LEU:HB2	2.21	0.41
23:BB:794:A:C4	23:BB:795:C:C5	3.09	0.41
1:AA:1005:A:C2'	1:AA:1006:G:H5'	2.51	0.41
7:AH:9:MET:O	7:AH:13:ILE:HG13	2.20	0.41
42:DU:71:ILE:CG1	42:DU:72:PHE:N	2.84	0.41
23:BB:286:U:H2'	23:BB:287:G:H8	1.86	0.41
52:DI:100:ILE:CG2	52:DI:104:GLN:HB2	2.50	0.41
3:AD:37:PRO:HD2	3:AD:41:GLY:CA	2.51	0.41
23:DB:247:G:O6	50:D3:7:ARG:HD2	2.21	0.41
28:DF:98:PHE:HA	28:DF:101:ARG:CG	2.50	0.41
32:BK:91:SER:O	32:BK:92:GLU:C	2.59	0.41
48:D1:34:GLU:HB3	48:D1:50:GLU:HB3	2.03	0.41
48:D1:5:ARG:HG2	48:D1:5:ARG:NH1	2.35	0.41
1:CA:359:G:O2'	1:CA:360:G:H5'	2.21	0.41
44:DX:7:ARG:C	44:DX:8:GLU:HG3	2.41	0.41
1:CA:672:U:H2'	1:CA:673:A:H8	1.83	0.41
1:AA:91:U:H2'	1:AA:92:U:C6	2.56	0.41
23:BB:134:G:C6	23:BB:146:A:C6	3.08	0.41
34:DM:127:LYS:C	34:DM:127:LYS:HD3	2.41	0.41
11:CL:79:ILE:C	11:CL:101:LEU:HD12	2.41	0.41
1:AA:1057:G:H4'	2:AC:194:VAL:O	2.21	0.41
23:DB:583:G:H2'	23:DB:584:C:H6	1.86	0.41
48:B1:29:LYS:CE	48:B1:30:PRO:HD2	2.47	0.41
11:CL:29:LYS:HB3	11:CL:56:LEU:HD22	2.02	0.41
11:CL:49:ARG:CD	11:CL:89:LEU:HD21	2.51	0.41
1:AA:1245:C:O2'	1:AA:1246:A:H5'	2.20	0.41
36:DO:30:ARG:CD	36:DO:97:PHE:HD2	2.33	0.41
7:CH:100:ILE:HD12	7:CH:101:ALA:N	2.36	0.41
23:DB:1825:U:H5'	25:DC:244:VAL:HG23	1.99	0.41
46:DZ:11:GLU:O	46:DZ:27:THR:HG22	2.21	0.41
1:AA:1148:U:C2'	1:AA:1149:C:H5'	2.50	0.41
2:AC:137:VAL:HG11	2:AC:150:VAL:HG21	2.01	0.41
23:BB:2897:U:H2'	23:BB:2898:U:C6	2.55	0.41
23:BB:607:U:C4	23:BB:620:G:O4'	2.73	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DN:106:ASP:O	35:DN:107:ASN:HB3	2.20	0.41
9:AJ:67:ILE:CG1	13:AN:95:LEU:HD13	2.44	0.41
6:AG:94:ARG:NH1	6:AG:98:LEU:HD11	2.35	0.41
23:BB:1795:C:H2'	23:BB:1796:U:H6	1.85	0.41
1:AA:493:A:N3	1:AA:493:A:O4'	2.54	0.41
23:DB:1593:A:H2'	23:DB:1594:U:O4'	2.20	0.41
3:AD:55:ARG:NH2	3:AD:58:GLN:NE2	2.67	0.41
23:DB:2597:G:OP1	25:DC:239:PHE:CD2	2.74	0.41
1:CA:830:G:H2'	1:CA:831:A:H8	1.86	0.41
1:AA:1523:G:H2'	1:AA:1524:C:C6	2.55	0.41
8:CI:20:ILE:CG2	8:CI:60:LEU:HD22	2.51	0.41
3:CD:160:LEU:C	3:CD:160:LEU:HD13	2.41	0.41
20:AB:114:LYS:HA	20:AB:117:GLU:OE1	2.21	0.41
46:DZ:20:ASN:O	46:DZ:21:VAL:CB	2.63	0.41
18:CS:41:PRO:HA	18:CS:44:ILE:CG1	2.50	0.41
27:BE:25:GLU:O	27:BE:27:LEU:N	2.54	0.41
10:AK:57:SER:O	10:AK:58:THR:C	2.59	0.41
1:AA:208:U:H2'	1:AA:210:C:C6	2.55	0.41
1:CA:407:U:O2'	3:CD:112:GLU:HG3	2.21	0.41
1:CA:728:A:H2'	1:CA:729:A:C8	2.55	0.41
29:DG:152:ARG:HA	29:DG:153:PRO:HD3	1.96	0.41
12:CM:48:SER:C	12:CM:50:GLY:H	2.23	0.41
1:CA:90:C:H2'	1:CA:91:U:H6	1.84	0.41
23:BB:196:A:N7	33:BL:52:GLY:HA2	2.36	0.41
23:BB:1460:U:H5''	23:BB:1461:C:C6	2.56	0.41
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.21	0.41
23:BB:1192:G:C2'	23:BB:1193:G:H5'	2.50	0.41
1:CA:984:C:H2'	1:CA:985:C:C6	2.56	0.41
1:CA:599:C:H2'	1:CA:600:A:H8	1.85	0.41
23:BB:2545:G:N3	23:BB:2565:A:H2	2.19	0.41
12:AM:94:LEU:HD22	12:AM:101:THR:OG1	2.21	0.41
1:AA:955:U:H2'	1:AA:956:U:O4'	2.21	0.41
1:AA:960:U:C1'	1:AA:961:U:OP2	2.69	0.41
23:DB:619:G:H3'	23:DB:620:G:H21	1.86	0.41
25:BC:37:SER:H	25:BC:62:ARG:HB2	1.86	0.41
14:AO:52:ARG:HG3	14:AO:55:LEU:HD23	2.03	0.41
1:CA:828:U:H2'	1:CA:829:G:O5'	2.21	0.41
30:BH:69:ALA:HB1	30:BH:141:LYS:HZ3	1.85	0.41
1:AA:737:C:H2'	1:AA:738:C:C6	2.55	0.41
1:AA:736:C:H4'	5:AF:88:MET:HE3	2.02	0.41
23:DB:103:A:H3'	23:DB:104:A:H8	1.85	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:356:G:O2'	23:BB:357:C:H5'	2.20	0.41
23:DB:1897:G:O2'	23:DB:1898:U:H5'	2.20	0.41
23:BB:849:A:H2'	23:BB:850:U:C6	2.55	0.41
1:CA:1039:G:O2'	1:CA:1040:U:H5'	2.21	0.41
1:AA:1458:G:H2'	1:AA:1459:G:C8	2.56	0.41
23:BB:503:A:H5''	23:BB:504:A:H5'	2.02	0.41
24:DV:43:ASP:O	24:DV:47:VAL:HG23	2.20	0.41
23:DB:1841:U:H2'	23:DB:1842:G:C8	2.55	0.41
1:AA:601:G:O2'	1:AA:602:A:H5'	2.21	0.41
23:BB:2653:U:HO2'	29:BG:109:SER:CB	2.34	0.41
23:DB:1528:A:C2'	23:DB:1529:G:H5'	2.50	0.41
23:DB:2665:A:H2'	23:DB:2666:C:O2	2.21	0.41
23:DB:1924:C:O2'	23:DB:1925:C:H5'	2.21	0.41
1:AA:1033:G:C3'	1:AA:1034:G:H5''	2.51	0.41
22:BA:86:G:H3'	22:BA:87:U:H6	1.84	0.41
1:AA:846:G:H5'	1:AA:847:G:OP2	2.21	0.41
1:CA:737:C:H2'	1:CA:738:C:C6	2.55	0.41
1:CA:738:C:H2'	1:CA:739:C:H6	1.86	0.41
2:AC:139:ASN:ND2	2:AC:139:ASN:N	2.68	0.41
30:BH:41:LYS:N	30:BH:41:LYS:HD2	2.33	0.41
4:CE:14:LEU:HD13	4:CE:14:LEU:C	2.41	0.41
23:DB:1268:A:H2'	23:DB:1269:A:C8	2.55	0.41
1:CA:181:A:H1'	1:CA:182:A:C2	2.56	0.41
1:CA:607:A:H2'	1:CA:608:A:H8	1.86	0.41
23:DB:296:U:H3'	55:DB:3414:HOH:O	2.21	0.41
23:DB:2710:C:H2'	23:DB:2711:A:C8	2.56	0.41
14:AO:15:GLY:HA3	14:AO:20:ASP:OD1	2.21	0.41
22:BA:95:U:H2'	22:BA:96:G:C8	2.55	0.41
23:DB:2188:U:O2'	23:DB:2189:U:H5'	2.21	0.41
52:BI:16:MET:N	52:BI:42:ASN:OD1	2.54	0.41
22:DA:92:C:H2'	22:DA:93:C:C6	2.56	0.41
30:DH:67:ALA:C	30:DH:69:ALA:H	2.23	0.41
14:AO:71:ARG:HB2	14:AO:71:ARG:NH1	2.35	0.41
37:BP:45:VAL:HG12	37:BP:65:ASN:HB2	2.02	0.41
16:CQ:57:VAL:HB	16:CQ:79:GLU:HB2	2.03	0.41
1:AA:688:G:O2'	1:AA:689:C:H5'	2.20	0.41
1:CA:746:A:H2'	1:CA:747:A:H8	1.86	0.41
1:AA:144:G:H2'	1:AA:145:G:C8	2.56	0.41
23:DB:820:A:H2'	23:DB:821:A:O4'	2.20	0.41
36:BO:105:ALA:HA	36:BO:108:ASP:OD2	2.21	0.41
1:AA:31:G:H2'	1:AA:48:C:H41	1.86	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:1120:G:H2'	23:DB:1121:C:C6	2.56	0.41
23:BB:1989:G:H2'	23:BB:1990:C:O4'	2.21	0.41
1:AA:890:G:O2'	1:AA:906:A:N6	2.53	0.41
14:CO:49:HIS:O	14:CO:52:ARG:HB3	2.21	0.41
23:DB:2559:C:O2'	23:DB:2560:A:H5'	2.19	0.41
23:BB:1764:C:H2'	23:BB:1765:U:C6	2.56	0.41
26:DD:100:LEU:HD13	26:DD:100:LEU:C	2.41	0.41
8:CI:109:GLN:HE21	8:CI:109:GLN:HB3	1.61	0.41
1:CA:750:C:O2	14:CO:22:GLY:HA3	2.21	0.41
17:AR:24:ASP:O	17:AR:28:LEU:HD13	2.20	0.41
23:BB:2441:U:O2'	23:BB:2442:C:H5'	2.21	0.41
23:DB:1390:U:O2'	23:DB:1391:U:H5'	2.20	0.41
52:DI:8:VAL:HG11	52:DI:30:GLN:HG3	2.03	0.41
37:DP:27:VAL:O	37:DP:29:VAL:N	2.53	0.41
37:DP:27:VAL:HB	37:DP:86:LYS:O	2.22	0.41
23:DB:458:G:O2'	23:DB:459:U:OP2	2.39	0.41
34:DM:112:LEU:HA	34:DM:112:LEU:HD23	1.89	0.41
37:BP:28:LYS:HB3	37:BP:44:GLY:H	1.85	0.41
37:BP:5:LYS:C	37:BP:7:LEU:N	2.71	0.41
25:BC:152:GLN:HB3	25:BC:153:LEU:H	1.53	0.41
35:DN:98:LEU:HD11	35:DN:114:GLU:OE2	2.20	0.41
25:DC:144:GLU:HG2	25:DC:150:GLY:HA2	2.02	0.41
25:DC:62:ARG:O	25:DC:62:ARG:NE	2.53	0.41
25:DC:63:ILE:HG23	25:DC:102:TYR:HD1	1.82	0.41
31:BJ:16:TYR:HD2	31:BJ:140:LEU:HB2	1.86	0.41
34:BM:8:LYS:HZ2	34:BM:69:PRO:HB2	1.84	0.41
34:BM:8:LYS:NZ	34:BM:69:PRO:HB2	2.36	0.41
16:AQ:10:ARG:HD3	16:AQ:55:GLY:H	1.86	0.41
38:BQ:50:ARG:HG2	38:BQ:50:ARG:HH11	1.86	0.41
39:BR:73:LYS:O	39:BR:74:ILE:O	2.39	0.41
42:BU:41:VAL:O	42:BU:41:VAL:HG13	2.20	0.41
42:BU:38:ILE:HB	42:BU:62:ALA:HB3	2.03	0.41
23:BB:527:C:H5'	23:BB:2779:U:N3	2.36	0.41
23:BB:1449:G:H2'	23:BB:1450:G:C8	2.56	0.41
8:AI:9:GLY:O	8:AI:16:ALA:HB3	2.21	0.41
8:AI:52:GLU:N	8:AI:56:MET:HG2	2.35	0.41
1:CA:1004:A:H3'	1:CA:1005:A:C8	2.54	0.41
34:DM:16:ARG:NE	34:DM:18:ARG:NH1	2.65	0.41
40:BS:37:THR:HG23	40:BS:38:TYR:CD1	2.56	0.41
1:CA:1015:G:O2'	1:CA:1016:A:H5'	2.21	0.41
23:BB:2621:G:P	26:BD:124:ARG:HH22	2.44	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:288:U:H2'	23:DB:289:G:C8	2.56	0.41
26:DD:160:LYS:HG3	26:DD:160:LYS:O	2.21	0.41
23:BB:1060:U:C1'	23:BB:1062:G:H5'	2.51	0.41
13:CN:29:ILE:HB	13:CN:44:VAL:HG21	2.03	0.41
34:DM:124:LEU:O	34:DM:124:LEU:HD12	2.21	0.41
23:DB:927:A:H2'	23:DB:928:A:C8	2.55	0.41
32:DK:63:VAL:HB	32:DK:83:ALA:CB	2.51	0.41
8:CI:94:ARG:HH11	8:CI:98:ARG:NH1	2.19	0.41
35:BN:103:ARG:HG2	35:BN:103:ARG:O	2.21	0.41
38:DQ:95:ALA:O	38:DQ:98:ALA:HB3	2.20	0.41
23:BB:2693:G:O2'	23:BB:2694:G:H5'	2.21	0.41
23:BB:264:C:C2'	23:BB:265:A:H5''	2.51	0.41
1:CA:358:U:H2'	1:CA:359:G:H8	1.86	0.41
23:BB:1198:U:H2'	23:BB:1199:U:C5	2.55	0.41
36:BO:36:TYR:HA	36:BO:52:SER:HB2	2.03	0.41
30:DH:68:ARG:HE	30:DH:71:LYS:CE	2.26	0.41
48:B1:11:VAL:HG13	48:B1:12:SER:N	2.35	0.41
1:CA:276:G:O2'	1:CA:277:C:H5'	2.21	0.41
16:CQ:56:ASP:HA	16:CQ:81:ALA:HA	2.03	0.41
43:BW:14:ASP:O	43:BW:15:SER:HB3	2.21	0.41
23:DB:2441:U:O2'	23:DB:2442:C:H5'	2.21	0.41
23:DB:1827:U:C2'	23:DB:1828:G:H5'	2.51	0.41
23:BB:28:A:H2'	23:BB:29:U:H6	1.85	0.41
49:B2:38:GLY:O	49:B2:39:ARG:C	2.58	0.41
49:B2:39:ARG:HB2	49:B2:39:ARG:NH1	2.35	0.41
1:CA:878:A:H2'	1:CA:879:C:C6	2.56	0.41
23:BB:1170:C:O2'	23:BB:1171:G:H5'	2.21	0.41
1:CA:493:A:O4'	1:CA:493:A:N3	2.54	0.41
19:CT:38:ILE:HA	19:CT:85:LEU:HD22	2.02	0.41
25:BC:205:GLY:O	25:BC:206:LYS:HG2	2.21	0.41
1:AA:611:C:H2'	1:AA:612:C:C6	2.56	0.41
1:AA:612:C:H2'	1:AA:613:C:C6	2.56	0.41
4:AE:81:GLN:NE2	4:AE:82:HIS:ND1	2.68	0.41
22:DA:76:G:O2'	22:DA:77:U:H5'	2.21	0.41
23:DB:1030:C:O2'	23:DB:1031:G:H5'	2.21	0.41
3:AD:197:HIS:HA	3:AD:200:VAL:HG22	2.03	0.41
22:DA:70:C:H2'	22:DA:71:C:H6	1.85	0.41
1:CA:208:U:C2'	1:CA:209:U:H5''	2.50	0.41
29:DG:25:ILE:O	29:DG:31:GLU:HA	2.21	0.41
23:DB:2195:U:O2'	23:DB:2196:C:H5'	2.21	0.41
1:CA:691:G:H1'	1:CA:696:A:H61	1.84	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AB:140:LEU:HD22	20:AB:144:GLU:OE2	2.20	0.41
4:CE:21:SER:HA	4:CE:29:ILE:O	2.20	0.41
42:DU:95:PHE:HB2	42:DU:99:SER:C	2.41	0.41
25:DC:115:ILE:O	25:DC:116:GLN:HG3	2.21	0.41
29:DG:145:ALA:HA	29:DG:148:ARG:HG2	2.02	0.41
44:DX:31:GLN:NE2	44:DX:31:GLN:CA	2.83	0.41
28:BF:116:LEU:HG	28:BF:175:PRO:O	2.21	0.41
34:DM:66:ARG:HA	34:DM:66:ARG:NE	2.35	0.41
1:CA:1029:U:N3	1:CA:1033:G:C2	2.89	0.41
1:CA:1018:G:H2'	1:CA:1019:A:C8	2.55	0.41
33:DL:25:SER:HB2	33:DL:26:GLY:H	1.55	0.41
50:B3:4:LYS:HZ1	50:B3:59:ALA:H	1.69	0.41
1:AA:393:A:O2'	1:AA:394:G:H5'	2.20	0.41
1:AA:367:U:OP1	1:AA:395:C:H1'	2.21	0.41
23:DB:2825:G:C2'	23:DB:2826:A:H5'	2.51	0.41
23:BB:2139:U:O5'	23:BB:2139:U:H6	2.04	0.41
22:BA:109:A:O2'	22:BA:110:C:H5'	2.20	0.41
23:DB:2693:G:O2'	23:DB:2694:G:H5'	2.21	0.41
23:DB:2694:G:O2'	23:DB:2695:U:H5'	2.21	0.41
23:BB:197:A:H4'	23:BB:2069:G:OP2	2.21	0.41
7:CH:17:GLN:NE2	7:CH:69:ALA:HB1	2.36	0.41
2:CC:91:ALA:HB2	2:CC:98:ALA:CB	2.51	0.41
20:CB:148:GLY:C	20:CB:150:ILE:H	2.24	0.41
23:DB:1041:G:C2	23:DB:1042:G:N7	2.88	0.41
30:BH:41:LYS:O	30:BH:42:LYS:C	2.59	0.41
23:DB:266:G:O4'	23:DB:266:G:OP2	2.38	0.41
23:BB:570:G:C2'	23:BB:571:U:H5'	2.51	0.41
2:CC:37:LYS:HB3	2:CC:41:TYR:CE1	2.56	0.41
1:CA:175:C:H2'	1:CA:176:C:H6	1.86	0.41
1:AA:1401:G:O2'	1:AA:1402:C:H5'	2.20	0.41
39:DR:10:LYS:O	39:DR:11:GLN:HB2	2.21	0.41
17:CR:47:ARG:HH12	17:CR:49:LYS:H	1.69	0.41
23:BB:1936:A:C2	23:BB:1943:U:H5	2.39	0.41
23:DB:349:U:O2	23:DB:349:U:H2'	2.20	0.41
23:BB:730:A:C2	23:BB:731:C:C6	3.09	0.41
33:BL:2:ARG:NH1	33:BL:4:ASN:HD21	2.19	0.41
1:AA:1276:G:H2'	1:AA:1277:C:C6	2.56	0.41
8:CI:35:GLU:O	8:CI:39:GLY:HA2	2.21	0.41
23:BB:820:A:H2'	23:BB:821:A:O4'	2.21	0.41
1:AA:580:C:H2'	1:AA:581:G:O4'	2.21	0.41
23:DB:1831:G:H2'	23:DB:1832:C:C6	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AN:68:ARG:HH11	13:AN:70:HIS:HB2	1.85	0.41
38:DQ:102:LYS:O	38:DQ:106:THR:HG22	2.20	0.41
23:DB:2308:G:N3	23:DB:2308:G:H3'	2.35	0.41
44:BX:50:VAL:O	44:BX:53:VAL:HG23	2.21	0.41
1:AA:358:U:H2'	1:AA:359:G:H8	1.86	0.41
1:AA:359:G:O2'	1:AA:360:G:H5'	2.21	0.41
37:DP:50:ARG:HD2	37:DP:99:LEU:HB3	2.03	0.40
42:BU:69:VAL:CG1	42:BU:77:GLY:H	2.34	0.40
30:BH:89:LYS:O	30:BH:90:LEU:HD12	2.21	0.40
36:DO:15:ARG:HH12	43:DW:76:ARG:HD2	1.86	0.40
43:DW:24:ARG:HE	43:DW:58:LEU:HB2	1.86	0.40
23:BB:691:C:H1'	25:BC:42:ARG:NH1	2.36	0.40
25:BC:67:LYS:O	25:BC:68:ARG:CB	2.66	0.40
25:DC:68:ARG:HH21	25:DC:190:THR:HG23	1.83	0.40
31:DJ:133:ALA:C	31:DJ:135:GLN:H	2.23	0.40
39:DR:76:LYS:CE	39:DR:90:ARG:HD3	2.52	0.40
1:AA:1015:G:O2'	1:AA:1016:A:H5'	2.20	0.40
1:AA:1219:A:OP1	13:AN:52:ARG:HG2	2.20	0.40
23:BB:298:G:H1'	23:BB:340:A:H61	1.86	0.40
46:BZ:49:ARG:C	46:BZ:51:VAL:N	2.72	0.40
46:DZ:1:MET:C	46:DZ:2:LYS:HG3	2.41	0.40
34:BM:70:ASP:C	34:BM:71:LYS:HG3	2.41	0.40
34:BM:96:ILE:O	34:BM:97:GLN:HG3	2.21	0.40
26:BD:170:VAL:CG1	26:BD:171:THR:H	2.13	0.40
31:DJ:33:ALA:O	31:DJ:36:LEU:HB2	2.20	0.40
23:DB:848:C:H2'	23:DB:849:A:C8	2.56	0.40
23:BB:2306:C:H1'	28:BF:132:ARG:NH2	2.37	0.40
35:BN:28:LEU:HD22	35:BN:48:VAL:HG11	2.03	0.40
31:BJ:39:LYS:C	31:BJ:41:LYS:N	2.74	0.40
23:BB:911:A:N6	34:BM:13:HIS:HB3	2.36	0.40
26:DD:79:LEU:CG	26:DD:80:TRP:N	2.83	0.40
18:CS:9:PHE:O	18:CS:10:ILE:HG23	2.21	0.40
22:DA:49:C:H5''	36:DO:101:GLY:HA3	2.03	0.40
23:BB:1998:A:OP2	26:BD:141:ARG:NH2	2.54	0.40
9:CJ:57:VAL:HG13	9:CJ:58:ASN:N	2.36	0.40
23:DB:2389:G:H5''	23:DB:2390:U:O4'	2.20	0.40
25:BC:229:HIS:O	25:BC:231:HIS:N	2.40	0.40
26:BD:68:PHE:O	26:BD:70:LYS:N	2.46	0.40
23:DB:1019:U:O2'	23:DB:1021:A:C2	2.70	0.40
39:DR:39:LEU:HG	39:DR:62:GLU:HG2	2.02	0.40
35:BN:110:MET:O	35:BN:111:ALA:HB3	2.20	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:37:U:O2'	1:AA:38:G:H5'	2.21	0.40
39:DR:73:LYS:HD2	39:DR:73:LYS:H	1.85	0.40
1:AA:951:G:O2'	1:AA:952:U:H5'	2.21	0.40
34:BM:82:MET:O	34:BM:84:LYS:HG3	2.21	0.40
11:AL:56:LEU:H	11:AL:56:LEU:CD1	2.34	0.40
41:DT:12:ARG:HG2	41:DT:13:ALA:H	1.85	0.40
32:DK:43:ILE:CD1	32:DK:58:LEU:HD21	2.50	0.40
37:BP:2:ASN:ND2	37:BP:2:ASN:N	2.61	0.40
1:CA:60:A:HO2'	1:CA:61:G:C5'	2.35	0.40
1:AA:807:A:O2'	25:BC:4:LYS:HB2	2.21	0.40
1:AA:80:A:C2	1:AA:81:A:C4	3.09	0.40
18:AS:62:THR:HG22	18:AS:63:ASP:N	2.36	0.40
1:AA:1462:C:H2'	1:AA:1463:U:H6	1.86	0.40
25:DC:9:SER:OG	25:DC:202:ARG:NH2	2.55	0.40
1:AA:1058:G:H2'	1:AA:1059:C:O4'	2.20	0.40
23:BB:2285:C:N4	48:B1:24:LYS:NZ	2.69	0.40
11:CL:56:LEU:HD12	11:CL:60:PHE:CB	2.50	0.40
23:BB:2347:C:OP2	50:B3:37:THR:HG21	2.21	0.40
1:AA:1150:A:N6	1:AA:1151:A:N6	2.69	0.40
20:CB:26:MET:SD	20:CB:192:PRO:HD3	2.61	0.40
42:DU:43:LYS:NZ	42:DU:43:LYS:CB	2.84	0.40
42:DU:44:HIS:O	42:DU:46:LYS:HD2	2.21	0.40
23:DB:1549:A:H2'	23:DB:1550:C:H6	1.84	0.40
19:CT:38:ILE:HD11	19:CT:82:ILE:CG2	2.47	0.40
24:DV:65:VAL:O	24:DV:67:GLY:N	2.51	0.40
23:BB:619:G:H3'	23:BB:620:G:H21	1.86	0.40
23:DB:1864:U:OP1	23:DB:2411:A:H5'	2.21	0.40
13:AN:92:ILE:HG21	13:AN:95:LEU:HD23	2.03	0.40
1:AA:1309:G:O2'	1:AA:1310:G:H5'	2.20	0.40
1:CA:977:A:H3'	1:CA:1362:A:N6	2.32	0.40
22:DA:99:A:N1	23:DB:863:A:C4'	2.85	0.40
40:BS:24:ILE:O	40:BS:25:ARG:HB2	2.20	0.40
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.86	0.40
23:DB:2405:G:C5'	33:DL:70:LYS:HE3	2.51	0.40
20:CB:207:ARG:O	20:CB:208:ALA:C	2.59	0.40
14:AO:34:GLN:HG2	14:AO:58:MET:HE1	2.03	0.40
23:BB:600:G:H2'	23:BB:601:C:H6	1.84	0.40
23:DB:2279:G:N7	43:DW:10:ARG:HG3	2.36	0.40
23:BB:330:A:N7	23:BB:1210:G:H2'	2.37	0.40
23:BB:2479:U:OP1	51:B4:1:MET:HE1	2.22	0.40
1:CA:1271:A:H2'	1:CA:1272:G:H8	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:DB:182:A:H1'	23:DB:434:U:H5'	2.03	0.40
1:CA:1526:G:H2'	1:CA:1527:U:H6	1.85	0.40
13:AN:27:LYS:NZ	13:AN:28:ALA:HB2	2.36	0.40
23:BB:1446:C:H2'	23:BB:1447:C:H6	1.86	0.40
42:DU:96:LYS:HB2	42:DU:96:LYS:HE2	1.94	0.40
20:AB:88:GLN:HE21	20:AB:88:GLN:HB2	1.65	0.40
4:AE:17:VAL:CG2	4:AE:34:ALA:HB2	2.50	0.40
1:CA:401:C:H2'	1:CA:402:G:H8	1.86	0.40
23:BB:175:G:O2'	23:BB:176:A:H5'	2.21	0.40
43:DW:48:ALA:HA	43:DW:54:ARG:N	2.35	0.40
47:B0:39:ARG:HG2	47:B0:39:ARG:NH1	2.36	0.40
1:AA:213:G:C8	1:AA:214:C:C5	3.08	0.40
23:DB:2221:G:H2'	23:DB:2222:C:H6	1.85	0.40
23:BB:1537:G:C2'	23:BB:1538:G:H5'	2.51	0.40
23:BB:949:G:O2'	23:BB:950:G:H5'	2.21	0.40
16:AQ:64:ARG:HG3	16:AQ:65:PRO:HD2	2.03	0.40
23:DB:2215:C:H2'	23:DB:2216:G:C8	2.56	0.40
1:AA:415:A:O4'	1:AA:415:A:N3	2.53	0.40
20:CB:77:GLU:O	20:CB:80:LYS:HG2	2.21	0.40
2:AC:40:GLN:CD	2:AC:44:LYS:HD2	2.42	0.40
2:AC:110:LEU:HD22	2:AC:145:ALA:HB2	2.04	0.40
25:DC:122:ALA:O	25:DC:124:LYS:HG2	2.21	0.40
23:DB:189:G:H2'	23:DB:205:G:N2	2.37	0.40
33:BL:106:GLU:HG2	33:BL:107:PHE:N	2.36	0.40
1:CA:442:G:H2'	1:CA:443:C:H6	1.84	0.40
23:BB:2756:U:H5'	51:B4:18:LYS:NZ	2.36	0.40
23:DB:1092:C:C2'	23:DB:1093:G:H5'	2.51	0.40
7:AH:47:ASP:CG	7:AH:48:PHE:H	2.25	0.40
6:AG:101:ARG:O	6:AG:105:GLU:N	2.46	0.40
2:AC:132:ALA:HA	2:AC:136:ALA:HB3	2.02	0.40
29:BG:6:ALA:H	29:BG:7:PRO:CD	2.34	0.40
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.85	0.40
48:D1:4:ILE:HG13	48:D1:4:ILE:O	2.21	0.40
9:AJ:48:ARG:HA	9:AJ:66:GLU:HA	2.03	0.40
23:BB:2221:G:H2'	23:BB:2222:C:C6	2.57	0.40
44:BX:36:GLN:OE1	44:BX:37:LEU:HG	2.22	0.40
23:DB:1936:A:C2	23:DB:1943:U:H5	2.39	0.40
1:CA:651:C:O2'	1:CA:652:U:H5'	2.21	0.40
1:CA:1530:G:H2'	1:CA:1531:A:C8	2.55	0.40
23:DB:1764:C:H2'	23:DB:1765:U:C6	2.56	0.40
23:BB:1765:U:O2'	23:BB:1766:G:H5'	2.19	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:276:G:O2'	1:AA:277:C:H5'	2.21	0.40
15:CP:43:ALA:C	15:CP:45:GLU:H	2.23	0.40
23:DB:1792:G:O2'	23:DB:1793:C:H5'	2.21	0.40
23:DB:1310:G:H1'	23:DB:1611:C:H5'	2.03	0.40
10:CK:67:GLU:HG3	10:CK:68:ARG:N	2.36	0.40
23:BB:2595:G:N2	23:BB:2597:G:H3'	2.37	0.40
23:BB:2408:U:H2'	23:BB:2409:G:C8	2.55	0.40
1:CA:656:G:O2'	1:CA:657:U:H5'	2.21	0.40
44:DX:41:HIS:CE1	44:DX:43:LEU:HD23	2.56	0.40
42:BU:10:VAL:O	42:BU:11:ILE:HD13	2.22	0.40
26:BD:192:ALA:O	26:BD:193:VAL:HG12	2.22	0.40
32:BK:76:VAL:O	37:BP:74:GLN:HG2	2.21	0.40
43:DW:67:LYS:HG2	43:DW:71:LYS:N	2.36	0.40
43:DW:36:ILE:HG12	43:DW:69:GLU:OE2	2.21	0.40
26:DD:60:VAL:CG2	26:DD:63:PRO:HG2	2.43	0.40
25:DC:160:TYR:CD2	25:DC:193:GLU:HG2	2.56	0.40
23:BB:1017:G:H2'	23:BB:1018:U:H6	1.86	0.40
31:BJ:60:ASP:OD1	31:BJ:97:PRO:HG2	2.21	0.40
18:AS:18:VAL:HG13	18:AS:19:GLU:N	2.36	0.40
30:BH:28:ASN:O	30:BH:29:PHE:HB2	2.21	0.40
46:DZ:49:ARG:HB2	46:DZ:49:ARG:NH1	2.36	0.40
34:BM:21:ALA:C	34:BM:96:ILE:HG13	2.42	0.40
24:BV:9:ARG:HH22	24:BV:27:PRO:HB3	1.86	0.40
16:AQ:10:ARG:NE	16:AQ:56:ASP:O	2.54	0.40
23:DB:2820:A:O3'	35:DN:2:ARG:NH2	2.53	0.40
3:AD:153:ARG:HG2	3:AD:153:ARG:NH1	2.36	0.40
38:BQ:5:ARG:H	38:BQ:5:ARG:HD3	1.86	0.40
23:BB:975:A:N6	23:BB:989:G:H1'	2.37	0.40
23:BB:977:G:H5'	23:BB:1155:A:H4'	2.03	0.40
25:BC:216:ARG:O	25:BC:218:THR:N	2.53	0.40
41:DT:15:HIS:HB3	41:DT:31:VAL:HG11	2.03	0.40
38:DQ:64:ILE:C	38:DQ:66:ALA:N	2.75	0.40
28:BF:109:ARG:CG	28:BF:136:ILE:HG13	2.50	0.40
18:CS:39:ILE:HA	18:CS:43:MET:SD	2.60	0.40
34:DM:5:LYS:O	34:DM:7:THR:HG23	2.21	0.40
34:DM:71:LYS:HG2	34:DM:71:LYS:H	1.58	0.40
38:BQ:92:LYS:HG2	38:BQ:93:ILE:N	2.10	0.40
33:BL:94:THR:CG2	33:BL:95:LEU:HD12	2.37	0.40
23:BB:135:U:O5'	23:BB:135:U:H6	2.04	0.40
23:DB:1266:G:OP2	47:D0:12:ARG:CZ	2.69	0.40
13:CN:68:ARG:HH12	13:CN:71:GLY:H	1.67	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:54:LEU:HD13	3:CD:54:LEU:C	2.41	0.40
1:CA:374:A:OP1	1:CA:452:A:N1	2.55	0.40
44:DX:26:PHE:N	44:DX:26:PHE:CD1	2.89	0.40
23:BB:2732:G:H3'	23:BB:2733:A:H5'	2.02	0.40
26:BD:187:LEU:HD23	26:BD:187:LEU:C	2.41	0.40
34:DM:102:LEU:N	34:DM:102:LEU:HD22	2.35	0.40
35:BN:73:ASN:N	35:BN:73:ASN:ND2	2.68	0.40
37:DP:36:LYS:CG	37:DP:37:LYS:H	2.33	0.40
31:DJ:23:LYS:HB3	31:DJ:23:LYS:HE2	1.87	0.40
29:BG:26:LYS:HB3	29:BG:26:LYS:HE2	1.85	0.40
38:DQ:101:ASP:O	38:DQ:105:PHE:HB2	2.21	0.40
45:BY:6:ILE:HG12	45:BY:6:ILE:O	2.20	0.40
2:AC:90:VAL:C	2:AC:93:ILE:HG22	2.42	0.40
37:BP:92:ARG:NH2	37:BP:110:LYS:HB3	2.36	0.40
11:AL:31:GLY:O	11:AL:78:VAL:HG13	2.22	0.40
23:BB:1185:G:H5''	23:BB:1186:G:OP1	2.21	0.40
1:AA:239:U:C6	1:AA:239:U:C5'	2.97	0.40
7:CH:54:THR:HG23	7:CH:55:LYS:HE2	2.02	0.40
33:DL:45:GLY:C	33:DL:47:ARG:N	2.74	0.40
23:BB:2799:A:H4'	23:BB:2800:A:C8	2.56	0.40
23:BB:428:A:H2'	23:BB:429:A:O4'	2.21	0.40
16:CQ:56:ASP:OD1	16:CQ:80:LYS:HA	2.21	0.40
4:CE:104:ILE:O	4:CE:104:ILE:HD13	2.21	0.40
48:B1:35:LEU:O	48:B1:35:LEU:HG	2.21	0.40
1:AA:175:C:H2'	1:AA:176:C:H6	1.85	0.40
25:BC:237:ARG:HE	25:BC:237:ARG:C	2.25	0.40
23:BB:2838:G:C4	23:BB:2839:G:C8	3.10	0.40
3:CD:12:ARG:C	3:CD:37:PRO:HG3	2.42	0.40
4:CE:146:MET:HG2	4:CE:147:ASN:N	2.36	0.40
23:DB:2186:G:H2'	23:DB:2187:U:O4'	2.21	0.40
1:AA:1343:G:H1'	8:AI:122:ARG:NH1	2.35	0.40
1:CA:119:A:H4'	1:CA:120:A:O4'	2.21	0.40
7:AH:76:ARG:HD3	7:AH:79:ARG:HB3	2.02	0.40
23:BB:1411:U:O2'	23:BB:1412:U:H5'	2.21	0.40
23:BB:154:U:O2'	23:BB:155:A:H5'	2.22	0.40
28:BF:12:VAL:CG1	28:BF:27:VAL:HG21	2.49	0.40
23:BB:2313:C:H2'	23:BB:2314:A:H8	1.84	0.40
25:BC:175:LEU:HG	25:BC:175:LEU:H	1.74	0.40
25:BC:259:ASN:O	25:BC:261:ARG:HG2	2.21	0.40
23:DB:553:G:C2'	23:DB:554:U:H5'	2.52	0.40
1:AA:471:U:O2'	1:AA:472:U:H5'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:99:C:H2'	55:CA:1943:HOH:O	2.21	0.40
31:BJ:23:LYS:N	31:BJ:23:LYS:HD2	2.33	0.40
3:AD:187:ARG:HG3	3:AD:187:ARG:HH11	1.85	0.40
1:CA:123:U:H2'	1:CA:124:C:H6	1.86	0.40
1:AA:123:U:H5''	1:AA:311:C:HO2'	1.86	0.40
23:DB:1856:U:C2'	23:DB:1857:G:H5'	2.52	0.40
28:BF:13:LYS:HE2	28:BF:24:VAL:HG12	2.03	0.40
23:BB:2311:A:H1'	28:BF:76:PHE:HE1	1.87	0.40
7:AH:26:MET:CB	7:AH:27:PRO:HD2	2.49	0.40
34:BM:81:ARG:HG3	34:BM:81:ARG:O	2.21	0.40
22:BA:30:C:H2'	22:BA:31:C:H5'	2.03	0.40
23:DB:1723:G:N7	23:DB:1724:G:N7	2.69	0.40
25:BC:220:ARG:NH1	25:BC:220:ARG:HG3	2.36	0.40
5:AF:88:MET:HE1	5:AF:89:VAL:C	2.41	0.40
23:DB:1228:G:O2'	23:DB:1229:C:H5'	2.21	0.40
1:CA:213:G:C8	1:CA:214:C:C5	3.09	0.40
23:DB:1945:G:H2'	23:DB:1946:U:H6	1.82	0.40
29:BG:131:VAL:HG13	29:BG:133:LYS:CE	2.49	0.40
16:AQ:4:ILE:HD12	16:AQ:5:ARG:H	1.85	0.40
36:DO:109:ALA:HA	36:DO:112:GLU:CG	2.51	0.40
23:DB:1708:C:H2'	23:DB:1709:U:C6	2.57	0.40
1:CA:1011:C:H2'	1:CA:1012:A:H8	1.85	0.40
23:BB:622:G:H2'	23:BB:623:C:C6	2.56	0.40
6:CG:132:THR:O	6:CG:135:LYS:HB3	2.21	0.40
40:BS:86:MET:HB3	40:BS:94:ASP:HB3	2.03	0.40
49:B2:8:SER:OG	49:B2:11:LYS:HB2	2.21	0.40
41:DT:7:LEU:CD2	41:DT:7:LEU:H	2.33	0.40
1:CA:1446:A:N6	1:CA:1447:A:N6	2.69	0.40
1:CA:1209:C:O2'	1:CA:1210:C:H5'	2.21	0.40
23:BB:102:U:H4'	23:BB:103:A:OP2	2.13	0.40
40:DS:64:ALA:HA	40:DS:110:ARG:NH2	2.36	0.40
28:DF:157:THR:HG22	28:DF:159:ALA:H	1.87	0.40
34:DM:42:THR:O	34:DM:45:GLN:HB2	2.22	0.40
23:DB:311:A:HO2'	23:DB:312:G:C5'	2.35	0.40
22:BA:81:G:H2'	22:BA:82:U:H6	1.85	0.40
12:AM:106:ARG:HD3	12:AM:109:LYS:HD2	2.03	0.40
23:BB:1719:G:O2'	23:BB:1720:U:H5'	2.22	0.40
23:DB:2673:G:H2'	23:DB:2674:G:H8	1.86	0.40
1:AA:669:G:O2'	1:AA:670:G:H5'	2.22	0.40
26:BD:103:ASP:C	26:BD:105:LYS:H	2.23	0.40
6:AG:132:THR:HG23	6:AG:135:LYS:NZ	2.35	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:666:G:H5'	1:CA:726:C:H1'	2.03	0.40
14:AO:82:GLU:OE1	14:AO:82:GLU:HA	2.21	0.40
33:BL:65:GLY:O	33:BL:66:PHE:HB3	2.20	0.40
1:CA:144:G:H2'	1:CA:145:G:C8	2.56	0.40
51:D4:28:SER:O	51:D4:29:ALA:HB3	2.21	0.40
23:BB:123:G:O2'	23:BB:124:G:H5'	2.21	0.40
30:BH:82:SER:O	30:BH:90:LEU:HD23	2.21	0.40
23:BB:442:G:N2	23:BB:444:C:C2	2.90	0.40
37:BP:51:ASN:ND2	37:BP:97:TYR:CE2	2.90	0.40
43:DW:77:LYS:C	43:DW:79:ILE:H	2.24	0.40
25:BC:50:THR:C	25:BC:51:ARG:HG3	2.42	0.40
47:D0:41:HIS:HB3	47:D0:46:GLY:CA	2.51	0.40
23:DB:2786:U:O2	26:DD:62:LYS:HB3	2.22	0.40
26:DD:81:GLU:O	26:DD:82:PHE:CB	2.69	0.40
25:DC:131:MET:HE2	25:DC:173:LEU:HD11	2.03	0.40
23:DB:7:G:H2'	23:DB:8:C:O4'	2.21	0.40
31:DJ:124:VAL:O	31:DJ:125:TYR:HB2	2.20	0.40
31:DJ:15:TRP:HB3	31:DJ:138:GLN:O	2.22	0.40
31:BJ:73:VAL:HG21	31:BJ:75:TYR:OH	2.21	0.40
50:B3:22:LYS:HA	50:B3:22:LYS:HD3	1.88	0.40
33:BL:123:ARG:O	33:BL:126:ARG:HG3	2.21	0.40
33:BL:69:ARG:HG2	33:BL:69:ARG:HH11	1.86	0.40
37:BP:67:GLU:O	37:BP:67:GLU:HG3	2.20	0.40
34:BM:33:LEU:H	34:BM:101:VAL:HG22	1.81	0.40
34:BM:71:LYS:O	34:BM:73:ILE:HD12	2.22	0.40
23:BB:2574:G:O2'	26:BD:148:GLN:NE2	2.55	0.40
5:CF:94:HIS:O	5:CF:95:ALA:C	2.59	0.40
23:DB:137:U:C5	23:DB:138:U:C4	3.09	0.40
36:DO:39:VAL:HG22	36:DO:39:VAL:O	2.21	0.40
40:BS:6:LYS:HZ1	40:BS:104:THR:HG22	1.86	0.40
23:BB:2528:U:P	51:B4:31:PRO:HG2	2.61	0.40
42:BU:43:LYS:HE2	42:BU:45:GLN:HG2	2.03	0.40
41:DT:87:LEU:HD13	41:DT:93:LEU:HD13	2.02	0.40
38:DQ:71:ASN:O	38:DQ:73:ILE:N	2.54	0.40
18:CS:35:ARG:NH2	18:CS:74:ALA:HB3	2.37	0.40
18:CS:39:ILE:HG12	18:CS:68:HIS:O	2.20	0.40
38:BQ:93:ILE:HG23	38:BQ:94:LEU:N	2.31	0.40
38:BQ:94:LEU:HB3	39:BR:13:ARG:HG2	2.03	0.40
40:BS:3:THR:HG23	40:BS:107:VAL:O	2.22	0.40
41:BT:12:ARG:NH2	44:BX:29:ARG:NH1	2.59	0.40
27:BE:176:ASP:CG	27:BE:177:PRO:HD2	2.41	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CD:167:PRO:CG	3:CD:170:LEU:HD11	2.35	0.40
26:DD:72:GLY:O	26:DD:91:THR:OG1	2.38	0.40
26:DD:87:GLY:HA3	26:DD:89:GLU:OE1	2.21	0.40
18:AS:4:LEU:N	18:AS:5:LYS:HE3	2.35	0.40
23:BB:143:C:C2'	23:BB:144:A:C8	3.04	0.40
41:BT:24:MET:HG3	41:BT:28:ASN:HA	2.02	0.40
26:BD:128:ARG:NH2	26:BD:130:GLN:CD	2.74	0.40
13:CN:9:GLU:O	13:CN:13:VAL:HG23	2.20	0.40
21:CU:3:ILE:HD11	21:CU:19:LYS:HD3	2.04	0.40
23:BB:1254:A:OP2	23:BB:1256:G:H8	2.04	0.40
26:BD:33:ARG:HG3	26:BD:34:VAL:N	2.31	0.40
25:DC:51:ARG:O	25:DC:52:HIS:O	2.39	0.40
25:BC:228:ASP:N	25:BC:228:ASP:OD1	2.53	0.40
26:DD:175:LEU:HB3	26:DD:189:VAL:HG12	2.02	0.40
38:DQ:86:SER:C	38:DQ:88:GLU:H	2.24	0.40
2:AC:205:GLU:HB2	2:AC:206:ILE:H	1.59	0.40
12:CM:21:ILE:O	12:CM:23:GLY:N	2.55	0.40
8:CI:85:ALA:C	8:CI:87:MET:N	2.74	0.40
1:AA:978:A:H5'	1:AA:1362:A:H62	1.83	0.40
37:DP:38:ARG:HA	37:DP:38:ARG:HD2	1.61	0.40
14:CO:16:ARG:CZ	14:CO:76:ARG:NH2	2.85	0.40
11:CL:62:VAL:HG11	11:CL:94:TYR:HE1	1.87	0.40
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.85	0.40
23:DB:2143:C:H3'	23:DB:2144:G:C8	2.48	0.40
44:BX:14:LEU:HD21	44:BX:57:LEU:HD22	2.02	0.40
7:CH:7:ALA:O	7:CH:11:THR:HG23	2.21	0.40
35:DN:81:ASN:O	35:DN:85:PRO:HG3	2.22	0.40
23:DB:876:C:H3'	23:DB:877:A:C4'	2.52	0.40
1:CA:1099:G:H2'	1:CA:1100:C:O4'	2.21	0.40
1:AA:80:A:C2	1:AA:81:A:H1'	2.57	0.40
1:AA:82:G:H3'	1:AA:83:C:H4'	2.02	0.40
25:DC:22:GLU:HB2	25:DC:202:ARG:NE	2.37	0.40
38:DQ:30:VAL:O	38:DQ:31:TYR:HB2	2.21	0.40
7:AH:30:LYS:NZ	7:AH:30:LYS:CA	2.78	0.40
48:B1:51:ALA:CB	48:B1:52:LYS:HD2	2.52	0.40
1:CA:552:U:H5'	11:CL:82:ARG:HH11	1.87	0.40
1:CA:1074:G:H2'	1:CA:1075:U:C6	2.53	0.40
23:DB:1299:G:C5'	23:DB:1301:A:H1'	2.51	0.40
41:BT:68:LYS:HA	41:BT:75:GLY:HA3	2.03	0.40
27:BE:52:VAL:HG22	27:BE:53:THR:N	2.29	0.40
1:CA:619:U:O2	3:CD:129:VAL:HG13	2.22	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AL:19:ASN:HB2	11:AL:93:ARG:CZ	2.52	0.40
23:BB:20:C:O2'	23:BB:21:A:H5'	2.21	0.40
23:BB:1788:C:O2'	23:BB:1789:A:H5'	2.21	0.40
1:CA:1326:U:H2'	1:CA:1327:C:H6	1.86	0.40
23:DB:242:G:H5'	50:D3:61:LEU:HD23	2.04	0.40
50:D3:4:LYS:O	50:D3:6:VAL:N	2.54	0.40
2:CC:8:GLY:C	2:CC:11:LEU:HG	2.41	0.40
1:CA:412:A:H1'	1:CA:413:G:C8	2.45	0.40
1:CA:471:U:O2'	1:CA:472:U:H5'	2.22	0.40
1:AA:672:U:H2'	1:AA:673:A:H8	1.83	0.40
34:DM:81:ARG:HB2	34:DM:81:ARG:HH11	1.86	0.40
1:CA:598:U:C2	1:CA:599:C:C5	3.09	0.40
22:DA:40:U:C2	22:DA:43:C:H5''	2.56	0.40
20:AB:98:GLY:HA2	20:AB:101:THR:CG2	2.51	0.40
36:BO:34:HIS:N	36:BO:34:HIS:ND1	2.69	0.40
23:BB:2887:A:O2'	23:BB:2888:C:H5'	2.21	0.40
1:AA:619:U:O2	3:AD:129:VAL:HA	2.22	0.40
2:CC:85:LYS:O	2:CC:89:VAL:HG13	2.21	0.40
23:BB:878:A:OP1	23:BB:899:A:N6	2.53	0.40
23:DB:1506:U:H2'	23:DB:1507:C:H6	1.87	0.40
1:AA:1080:A:H2'	1:AA:1081:A:H5'	2.03	0.40
23:DB:2150:C:H2'	23:DB:2151:U:H6	1.85	0.40
23:BB:1695:G:N7	25:BC:14:HIS:HD2	2.19	0.40
23:DB:622:G:H2'	23:DB:623:C:C6	2.56	0.40
3:CD:44:LYS:HZ1	3:CD:46:ARG:HA	1.87	0.40
23:BB:1036:G:O2'	23:BB:1037:G:H5'	2.21	0.40
1:CA:846:G:H5'	1:CA:847:G:OP2	2.21	0.40
1:CA:612:C:H2'	1:CA:613:C:C6	2.56	0.40
23:BB:1050:A:C2	23:BB:1051:G:H1'	2.57	0.40
35:BN:65:LEU:HA	35:BN:65:LEU:HD12	1.93	0.40
27:BE:37:ALA:O	27:BE:93:SER:HA	2.21	0.40
23:BB:1541:C:H2'	23:BB:1542:U:H6	1.85	0.40
23:BB:515:A:H3'	23:BB:516:C:C6	2.56	0.40
23:DB:689:A:H2'	23:DB:690:G:H8	1.85	0.40
1:AA:1340:A:H2'	1:AA:1341:U:C6	2.57	0.40
1:CA:1125:U:O2	1:CA:1126:U:H6	2.04	0.40
23:BB:1306:C:O2'	23:BB:1307:A:H5'	2.22	0.40
1:AA:828:U:H2'	1:AA:829:G:O5'	2.21	0.40
1:AA:258:G:N2	1:AA:259:G:H1'	2.37	0.40
12:CM:13:HIS:HA	12:CM:43:LYS:HA	2.02	0.40
23:DB:1989:G:H2'	23:DB:1990:C:O4'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CL:24:GLU:HB2	11:CL:26:CYS:SG	2.61	0.40
23:BB:1758:U:N3	23:BB:2696:U:H5'	2.35	0.40
1:AA:977:A:N1	1:AA:1224:U:O5'	2.54	0.40
48:D1:33:LEU:N	48:D1:33:LEU:HD12	2.37	0.40
1:CA:1046:A:H2'	1:CA:1047:G:O4'	2.21	0.40
1:CA:1321:U:H2'	1:CA:1322:C:C5	2.56	0.40
27:DE:51:GLU:HG2	27:DE:52:VAL:HG13	2.03	0.40
42:BU:8:ASP:O	42:BU:10:VAL:HG13	2.21	0.40
42:BU:13:LEU:O	42:BU:15:GLY:N	2.54	0.40
42:BU:25:LYS:CG	42:BU:35:VAL:HA	2.41	0.40
27:BE:48:THR:CA	27:BE:86:ALA:HB1	2.51	0.40
20:CB:186:VAL:O	20:CB:200:PRO:HA	2.22	0.40
23:BB:1018:U:H2'	23:BB:1019:U:O4'	2.22	0.40
23:BB:2363:G:P	50:B3:39:ARG:HD3	2.62	0.40
23:BB:920:A:H2'	23:BB:921:C:C6	2.55	0.40
36:BO:40:ILE:N	36:BO:40:ILE:HD13	2.35	0.40
43:BW:59:PHE:HE2	43:BW:81:ILE:CD1	2.35	0.40
38:DQ:50:ARG:HH22	38:DQ:53:LYS:CE	2.34	0.40
39:DR:74:ILE:HD11	39:DR:76:LYS:HE2	2.03	0.40
33:BL:120:VAL:HG12	33:BL:138:ALA:HB3	2.02	0.40
33:BL:55:MET:SD	33:BL:55:MET:N	2.93	0.40
23:BB:2080:A:H2'	23:BB:2081:U:H6	1.86	0.40
46:BZ:34:LEU:H	46:BZ:44:PHE:CB	2.34	0.40
46:DZ:3:LYS:HG2	46:DZ:51:VAL:HG21	2.04	0.40
55:DB:3475:HOH:O	35:DN:4:ARG:HA	2.21	0.40
22:DA:116:G:H4'	36:DO:54:VAL:HG22	2.02	0.40
8:AI:16:ALA:HB1	8:AI:78:ILE:HA	2.03	0.40
31:DJ:7:LYS:CE	31:DJ:45:THR:HG21	2.52	0.40
31:DJ:7:LYS:O	31:DJ:48:VAL:HG21	2.20	0.40
18:CS:28:LYS:N	18:CS:28:LYS:HD2	2.37	0.40
35:BN:28:LEU:HG	35:BN:34:ILE:CD1	2.51	0.40
35:BN:41:ALA:C	35:BN:43:GLU:H	2.24	0.40
23:BB:1010:A:H4'	23:BB:1152:C:O2'	2.22	0.40
31:BJ:110:PRO:O	31:BJ:111:LYS:HB2	2.22	0.40
39:BR:41:ILE:HD12	39:BR:43:ASN:H	1.86	0.40
27:BE:6:LYS:HZ1	27:BE:119:ILE:N	2.19	0.40
51:B4:23:ILE:H	51:B4:23:ILE:HG12	1.64	0.40
1:AA:438:U:H4'	3:AD:119:HIS:HD2	1.85	0.40
26:DD:95:SER:HB3	26:DD:96:ILE:H	1.65	0.40
30:DH:122:LEU:HA	30:DH:146:VAL:CG2	2.49	0.40
28:DF:116:LEU:HD22	28:DF:129:MET:CE	2.52	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:DL:77:ILE:HD11	33:DL:108:ALA:O	2.21	0.40
49:B2:42:LEU:HG	49:B2:43:THR:H	1.86	0.40
49:B2:12:ARG:NH1	49:B2:44:VAL:O	2.55	0.40
41:BT:3:ARG:HE	41:BT:8:LEU:CD2	2.34	0.40
44:BX:19:LEU:C	44:BX:21:LEU:H	2.25	0.40
23:BB:2822:G:OP1	26:BD:166:GLY:CA	2.69	0.40
50:D3:12:ARG:O	50:D3:13:PHE:CB	2.69	0.40
2:AC:154:GLY:CA	2:AC:163:ARG:H	2.33	0.40
44:DX:22:LEU:HA	44:DX:22:LEU:HD23	1.97	0.40
52:BI:75:ALA:HB3	52:BI:131:THR:HG21	2.03	0.40
13:CN:24:ALA:C	13:CN:26:LEU:H	2.25	0.40
13:CN:48:GLN:HG3	13:CN:48:GLN:H	1.61	0.40
37:DP:59:THR:HG23	37:DP:76:HIS:NE2	2.36	0.40
38:DQ:86:SER:HB3	38:DQ:88:GLU:OE2	2.21	0.40
12:CM:22:TYR:O	12:CM:24:VAL:N	2.55	0.40
31:DJ:90:GLU:C	31:DJ:92:MET:N	2.73	0.40
19:CT:68:LYS:HB2	19:CT:70:LYS:CD	2.51	0.40
11:CL:20:VAL:O	11:CL:20:VAL:HG23	2.22	0.40
3:AD:84:ASN:O	3:AD:88:ASN:ND2	2.54	0.40
1:AA:1238:A:H2	1:AA:1241:G:H1'	1.85	0.40
35:BN:22:ARG:NE	35:BN:69:ARG:HD3	2.37	0.40
38:DQ:57:ARG:O	38:DQ:61:ILE:HG13	2.21	0.40
35:DN:70:THR:HG23	35:DN:72:ASP:HB3	2.04	0.40
2:AC:5:HIS:NE2	2:AC:7:ASN:HB2	2.37	0.40
29:DG:171:LYS:HZ3	29:DG:173:ALA:HA	1.86	0.40
1:CA:1336:C:H4'	1:CA:1337:G:O5'	2.21	0.40
32:DK:5:GLN:O	32:DK:20:MET:HG3	2.21	0.40
32:DK:2:ILE:HD12	32:DK:2:ILE:N	2.35	0.40
23:DB:988:A:H5''	45:DY:10:ARG:HD3	2.03	0.40
48:D1:10:LEU:H	48:D1:24:LYS:CB	2.31	0.40
23:DB:1176:U:O5'	23:DB:1176:U:H6	2.04	0.40
1:AA:1371:G:O3'	8:AI:70:GLY:HA3	2.20	0.40
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.21	0.40
23:BB:27:G:O2'	23:BB:513:A:N6	2.54	0.40
48:B1:10:LEU:HD11	48:B1:52:LYS:HD3	2.04	0.40
23:BB:2444:G:OP1	27:BE:62:GLN:NE2	2.55	0.40
1:CA:812:G:C4'	1:CA:812:G:OP1	2.70	0.40
1:CA:551:U:H2'	1:CA:552:U:H6	1.86	0.40
23:DB:1300:G:H4'	23:DB:1301:A:O5'	2.21	0.40
29:BG:40:VAL:CG1	29:BG:41:GLU:N	2.84	0.40
16:CQ:60:ILE:HB	16:CQ:73:THR:O	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CO:10:ILE:HG21	14:CO:30:LEU:HD21	2.03	0.40
23:BB:18:U:O2'	23:BB:19:A:H5'	2.21	0.40
1:CA:37:U:O2'	1:CA:38:G:H5'	2.21	0.40
1:CA:546:A:H4'	1:CA:548:G:O3'	2.21	0.40
20:CB:64:GLY:O	20:CB:66:ILE:HG12	2.22	0.40
1:AA:973:G:O2'	9:AJ:56:HIS:HA	2.21	0.40
23:DB:1275:A:N3	23:DB:1275:A:C3'	2.79	0.40
23:DB:1275:A:C8	35:DN:16:HIS:HB2	2.57	0.40
25:DC:28:PRO:CD	25:DC:79:ARG:HE	2.34	0.40
30:BH:57:LYS:HA	30:BH:61:VAL:HB	2.02	0.40
23:BB:2312:U:H2'	23:BB:2313:C:H5'	2.03	0.40
4:AE:95:MET:HE2	4:AE:114:LEU:HD11	2.03	0.40
4:CE:61:LYS:HG3	4:CE:62:ALA:N	2.35	0.40
20:CB:48:MET:CB	20:CB:199:ILE:HG22	2.52	0.40
23:BB:2377:A:H2'	23:BB:2378:A:C8	2.56	0.40
1:AA:201:G:O2'	1:AA:202:G:H5'	2.21	0.40
1:AA:123:U:H2'	1:AA:124:C:H6	1.86	0.40
20:CB:69:VAL:CG2	20:CB:160:LEU:HD11	2.51	0.40
23:BB:2155:U:H6	23:BB:2155:U:O5'	2.05	0.40
40:DS:36:LEU:O	40:DS:39:THR:HG22	2.21	0.40
1:AA:1458:G:O3'	19:AT:22:SER:HA	2.22	0.40
1:CA:621:A:H2'	1:CA:622:A:H8	1.82	0.40
23:BB:1708:C:H2'	23:BB:1709:U:C6	2.56	0.40
23:DB:2586:U:H2'	23:DB:2587:A:H8	1.84	0.40
26:DD:18:ASP:O	26:DD:20:VAL:N	2.54	0.40
1:AA:454:G:H2'	1:AA:455:G:H8	1.86	0.40
23:DB:769:U:H2'	23:DB:770:G:C8	2.57	0.40
14:AO:24:THR:O	14:AO:28:VAL:HG23	2.21	0.40
5:CF:89:VAL:HG13	5:CF:89:VAL:O	2.20	0.40
23:BB:553:G:H2'	23:BB:554:U:C6	2.56	0.40
41:DT:19:LYS:HA	41:DT:19:LYS:HD2	1.88	0.40
23:BB:2179:C:H2'	23:BB:2180:U:C6	2.56	0.40
1:AA:1021:A:H2'	1:AA:1022:A:C8	2.56	0.40
1:AA:1095:U:O2'	1:AA:1096:C:H5'	2.22	0.40
29:BG:35:THR:C	29:BG:36:LEU:HD12	2.42	0.40
40:BS:13:SER:OG	40:BS:16:LYS:HD3	2.21	0.40
16:CQ:57:VAL:HG12	16:CQ:78:VAL:HB	2.03	0.40
41:DT:70:HIS:CG	41:DT:71:GLY:H	2.39	0.40
24:BV:35:GLU:HG3	24:BV:93:ARG:NE	2.35	0.40
23:BB:116:C:H2'	23:BB:117:G:C8	2.57	0.40
19:AT:17:ARG:HD2	19:AT:17:ARG:C	2.42	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AS:30:LEU:N	18:AS:30:LEU:HD22	2.36	0.40
23:BB:1893:C:H2'	23:BB:1894:C:O4'	2.21	0.40
23:DB:1099:G:N7	52:DI:3:LYS:CD	2.83	0.40
51:D4:2:LYS:HB2	51:D4:2:LYS:HZ2	1.82	0.40
51:D4:36:ARG:HD2	51:D4:37:GLN:O	2.22	0.40
26:BD:175:LEU:HB3	26:BD:189:VAL:CG1	2.52	0.40
43:DW:43:LYS:CD	43:DW:76:ARG:HA	2.49	0.40
23:DB:44:A:H2'	23:DB:45:G:O4'	2.22	0.40
47:D0:53:VAL:CG1	47:D0:54:ILE:N	2.85	0.40
31:BJ:118:MET:O	31:BJ:119:PHE:C	2.59	0.40
31:BJ:25:LEU:HG	31:BJ:64:VAL:N	2.25	0.40
36:BO:17:LYS:HG2	43:BW:77:LYS:HD2	2.02	0.40
23:DB:2617:U:O2'	23:DB:2618:G:H5'	2.22	0.40
30:BH:19:VAL:O	30:BH:20:ASN:C	2.59	0.40
30:BH:32:PRO:C	30:BH:34:GLY:H	2.24	0.40
23:DB:297:G:H2'	23:DB:298:G:C8	2.56	0.40
27:DE:138:LEU:HB2	27:DE:143:LEU:CD1	2.51	0.40
27:DE:198:GLU:HB3	27:DE:199:MET:H	1.59	0.40
46:BZ:48:GLN:O	46:BZ:51:VAL:HB	2.20	0.40
46:BZ:6:HIS:H	46:BZ:51:VAL:HG13	1.86	0.40
24:BV:82:TYR:HB3	34:BM:36:VAL:HG12	2.04	0.40
23:BB:2617:U:C4	23:BB:2618:G:N7	2.90	0.40
41:DT:3:ARG:HB3	41:DT:5:GLU:OE1	2.21	0.40
35:DN:2:ARG:CZ	35:DN:4:ARG:NH1	2.85	0.40
25:DC:247:TRP:HZ2	25:DC:254:LYS:HZ3	1.67	0.40
22:DA:115:A:H2'	22:DA:116:G:O4'	2.22	0.40
26:BD:168:GLU:HG2	26:BD:169:ARG:N	2.37	0.40
8:AI:33:SER:C	8:AI:35:GLU:N	2.74	0.40
8:AI:38:PHE:HD2	8:AI:38:PHE:HA	1.77	0.40
8:AI:57:VAL:C	8:AI:59:LYS:H	2.25	0.40
35:BN:116:VAL:HG22	35:BN:117:ASP:N	2.27	0.40
47:B0:35:GLU:CG	47:B0:36:LYS:H	2.34	0.40
23:BB:2331:G:H2'	23:BB:2332:C:C6	2.57	0.40
27:BE:193:VAL:HG11	27:BE:201:ALA:HA	2.02	0.40
3:CD:105:GLY:HA3	3:CD:158:LEU:HD23	2.03	0.40
1:AA:1315:U:H3'	1:AA:1316:G:C8	2.56	0.40
30:DH:90:LEU:HD22	30:DH:122:LEU:HB3	2.03	0.40
1:CA:265:G:H5'	16:CQ:65:PRO:O	2.20	0.40
33:BL:93:ASN:O	33:BL:94:THR:HB	2.21	0.40
41:BT:2:ILE:O	41:BT:5:GLU:OE1	2.39	0.40
12:CM:56:ARG:HA	12:CM:59:VAL:CG1	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BB:1655:A:H2'	23:BB:1656:C:O4'	2.22	0.40
3:CD:58:GLN:CA	3:CD:58:GLN:HE21	2.16	0.40
2:AC:155:ARG:CZ	2:AC:192:TYR:HB2	2.51	0.40
26:BD:26:VAL:O	26:BD:27:ILE:C	2.60	0.40
26:BD:46:ARG:HG3	26:BD:47:ALA:N	2.36	0.40
25:DC:50:THR:O	25:DC:51:ARG:C	2.59	0.40
32:DK:76:VAL:H	37:DP:74:GLN:HB2	1.86	0.40
1:CA:1284:C:H3'	1:CA:1285:A:H8	1.86	0.40
48:B1:44:GLN:OE1	48:B1:46:VAL:HB	2.22	0.40
11:AL:66:ILE:CD1	11:AL:73:LEU:HD12	2.51	0.40
2:AC:10:ARG:O	2:AC:15:LYS:HB2	2.20	0.40
52:DI:78:LEU:HD13	52:DI:108:ILE:HG23	2.03	0.40
29:DG:9:VAL:HB	29:DG:11:PRO:HD3	2.03	0.40
7:CH:55:LYS:CA	7:CH:55:LYS:HZ2	2.24	0.40
48:D1:24:LYS:CB	48:D1:24:LYS:HZ2	2.33	0.40
4:AE:19:ARG:HA	4:AE:32:PHE:HA	2.03	0.40
23:DB:2799:A:H4'	23:DB:2800:A:C8	2.56	0.40
34:BM:126:ILE:HG13	34:BM:127:LYS:N	2.25	0.40
16:CQ:11:VAL:HG13	16:CQ:20:ILE:CG2	2.47	0.40
25:DC:19:VAL:CG1	25:DC:20:ASN:H	2.33	0.40
48:B1:8:ILE:HB	48:B1:9:LYS:H	1.60	0.40
47:B0:9:ARG:O	47:B0:10:SER:HB3	2.22	0.40
38:BQ:68:ALA:HB2	38:BQ:105:PHE:HZ	1.87	0.40
16:CQ:75:VAL:CG2	16:CQ:76:ARG:N	2.85	0.40
1:CA:415:A:N1	1:CA:428:G:O6	2.54	0.40
42:DU:43:LYS:HZ3	42:DU:53:GLN:HE21	1.70	0.40
9:AJ:92:LEU:H	9:AJ:92:LEU:CD2	2.29	0.40
1:CA:279:A:C5'	1:CA:280:C:H3'	2.48	0.40
5:CF:11:HIS:HB3	5:CF:14:GLN:HB2	2.02	0.40
2:CC:127:VAL:CG2	2:CC:128:MET:H	2.25	0.40
18:CS:3:SER:C	18:CS:4:LEU:HD12	2.42	0.40
3:AD:25:ARG:HD3	3:AD:26:ALA:N	2.30	0.40
22:DA:23:G:C2	22:DA:24:G:N1	2.90	0.40
5:CF:59:TYR:HD1	5:CF:59:TYR:H	1.68	0.40
22:DA:25:U:O5'	22:DA:26:C:OP1	2.40	0.40
23:DB:2759:G:H2'	23:DB:2760:C:O4'	2.21	0.40
23:BB:711:G:C2'	23:BB:712:G:H5'	2.51	0.40
1:CA:525:C:OP1	11:CL:87:LYS:HE2	2.21	0.40
1:AA:1226:C:O2'	1:AA:1227:A:P	2.79	0.40
23:BB:1723:G:N7	23:BB:1724:G:N7	2.70	0.40
23:BB:1736:U:H2'	23:BB:1737:G:O4'	2.20	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:620:C:H1'	3:AD:131:ILE:HG21	2.03	0.40
17:AR:46:THR:O	17:AR:50:TYR:HB2	2.21	0.40
40:DS:86:MET:HG3	40:DS:87:PRO:CD	2.51	0.40
23:DB:1537:G:C2'	23:DB:1538:G:H5'	2.51	0.40
23:DB:2379:G:H2'	23:DB:2380:C:H6	1.87	0.40
23:DB:1769:U:O2'	23:DB:1770:G:H5'	2.22	0.40
10:AK:35:ASP:HB3	10:AK:41:LEU:HD11	2.04	0.40
23:DB:1050:A:O2'	23:DB:1051:G:H5'	2.22	0.40
23:DB:265:A:H2'	23:DB:266:G:H1'	2.03	0.40
23:BB:539:G:O2'	23:BB:540:C:H5'	2.22	0.40
49:D2:4:THR:O	49:D2:5:PHE:HB2	2.21	0.40
1:AA:607:A:H2'	1:AA:608:A:H8	1.86	0.40
23:BB:1345:C:H5'	23:BB:1396:U:H5	1.86	0.40
23:DB:562:U:H2'	23:DB:572:A:O4'	2.21	0.40
1:CA:1515:G:O2'	1:CA:1516:G:H5'	2.21	0.40
23:DB:239:C:H2'	23:DB:240:C:H6	1.87	0.40
1:CA:1503:A:C8	1:CA:1531:A:H1'	2.56	0.40
1:AA:137:U:H2'	1:AA:138:G:C8	2.57	0.40
1:CA:258:G:N2	1:CA:259:G:H1'	2.37	0.40
23:DB:811:U:H3'	33:DL:32:GLY:O	2.21	0.40
23:BB:1801:A:H5'	23:BB:2203:U:O2'	2.21	0.40
37:BP:89:GLY:O	37:BP:90:ALA:C	2.60	0.40
23:DB:649:G:H2'	23:DB:650:C:C6	2.56	0.40
1:CA:1475:G:H4'	23:DB:1689:A:H4'	2.03	0.40
8:CI:99:LYS:HG2	8:CI:99:LYS:O	2.21	0.40
52:BI:4:VAL:O	52:BI:4:VAL:HG13	2.21	0.40
36:DO:62:LEU:HD12	36:DO:62:LEU:H	1.87	0.40
21:CU:32:ARG:O	21:CU:32:ARG:HG2	2.21	0.40
11:CL:53:ARG:HG2	11:CL:63:THR:HG22	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AC	204/233 (88%)	144 (71%)	44 (22%)	16 (8%)	1	13
2	CC	204/233 (88%)	138 (68%)	46 (22%)	20 (10%)	1	9
3	AD	203/206 (98%)	133 (66%)	49 (24%)	21 (10%)	1	8
3	CD	203/206 (98%)	137 (68%)	49 (24%)	17 (8%)	1	12
4	AE	148/167 (89%)	110 (74%)	30 (20%)	8 (5%)	2	23
4	CE	148/167 (89%)	109 (74%)	30 (20%)	9 (6%)	2	19
5	AF	98/135 (73%)	68 (69%)	25 (26%)	5 (5%)	2	25
5	CF	98/135 (73%)	72 (74%)	18 (18%)	8 (8%)	1	12
6	AG	148/179 (83%)	105 (71%)	35 (24%)	8 (5%)	2	23
6	CG	150/179 (84%)	101 (67%)	37 (25%)	12 (8%)	1	13
7	AH	127/130 (98%)	108 (85%)	14 (11%)	5 (4%)	4	33
7	CH	127/130 (98%)	91 (72%)	29 (23%)	7 (6%)	2	23
8	AI	125/130 (96%)	84 (67%)	30 (24%)	11 (9%)	1	11
8	CI	125/130 (96%)	82 (66%)	30 (24%)	13 (10%)	1	8
9	AJ	96/103 (93%)	65 (68%)	20 (21%)	11 (12%)	0	7
9	CJ	96/103 (93%)	59 (62%)	18 (19%)	19 (20%)	0	1
10	AK	115/129 (89%)	75 (65%)	32 (28%)	8 (7%)	1	16
10	CK	115/129 (89%)	76 (66%)	30 (26%)	9 (8%)	1	13
11	AL	121/124 (98%)	73 (60%)	35 (29%)	13 (11%)	0	8
11	CL	121/124 (98%)	76 (63%)	28 (23%)	17 (14%)	0	4
12	AM	112/118 (95%)	89 (80%)	13 (12%)	10 (9%)	1	11
12	CM	111/118 (94%)	82 (74%)	17 (15%)	12 (11%)	0	8
13	AN	92/101 (91%)	64 (70%)	19 (21%)	9 (10%)	1	9
13	CN	92/101 (91%)	50 (54%)	26 (28%)	16 (17%)	0	2
14	AO	86/89 (97%)	66 (77%)	19 (22%)	1 (1%)	16	60
14	CO	86/89 (97%)	69 (80%)	15 (17%)	2 (2%)	8	46
15	AP	80/82 (98%)	60 (75%)	14 (18%)	6 (8%)	1	14
15	CP	78/82 (95%)	55 (70%)	14 (18%)	9 (12%)	0	7
16	AQ	78/84 (93%)	49 (63%)	25 (32%)	4 (5%)	2	25
16	CQ	79/84 (94%)	58 (73%)	15 (19%)	6 (8%)	1	14
17	AR	53/75 (71%)	31 (58%)	16 (30%)	6 (11%)	0	7
17	CR	53/75 (71%)	36 (68%)	13 (24%)	4 (8%)	1	14

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	AS	77/92 (84%)	54 (70%)	12 (16%)	11 (14%)	0	3
18	CS	78/92 (85%)	50 (64%)	17 (22%)	11 (14%)	0	4
19	AT	83/87 (95%)	68 (82%)	12 (14%)	3 (4%)	4	35
19	CT	83/87 (95%)	62 (75%)	16 (19%)	5 (6%)	2	20
20	AB	216/241 (90%)	148 (68%)	52 (24%)	16 (7%)	1	15
20	CB	216/241 (90%)	149 (69%)	41 (19%)	26 (12%)	0	6
21	AU	49/71 (69%)	23 (47%)	12 (24%)	14 (29%)	0	0
21	CU	49/71 (69%)	26 (53%)	18 (37%)	5 (10%)	1	9
24	BV	92/94 (98%)	61 (66%)	24 (26%)	7 (8%)	1	14
24	DV	92/94 (98%)	64 (70%)	23 (25%)	5 (5%)	2	23
25	BC	265/273 (97%)	94 (36%)	95 (36%)	76 (29%)	0	0
25	DC	265/273 (97%)	97 (37%)	101 (38%)	67 (25%)	0	1
26	BD	207/209 (99%)	87 (42%)	68 (33%)	52 (25%)	0	1
26	DD	207/209 (99%)	91 (44%)	72 (35%)	44 (21%)	0	1
27	BE	199/201 (99%)	101 (51%)	57 (29%)	41 (21%)	0	1
27	DE	199/201 (99%)	90 (45%)	63 (32%)	46 (23%)	0	1
28	BF	176/179 (98%)	99 (56%)	42 (24%)	35 (20%)	0	1
28	DF	176/179 (98%)	98 (56%)	49 (28%)	29 (16%)	0	2
29	BG	174/177 (98%)	112 (64%)	41 (24%)	21 (12%)	0	6
29	DG	174/177 (98%)	108 (62%)	51 (29%)	15 (9%)	1	11
30	BH	147/149 (99%)	83 (56%)	49 (33%)	15 (10%)	1	9
30	DH	147/149 (99%)	83 (56%)	46 (31%)	18 (12%)	0	6
31	BJ	138/142 (97%)	68 (49%)	43 (31%)	27 (20%)	0	2
31	DJ	138/142 (97%)	72 (52%)	36 (26%)	30 (22%)	0	1
32	BK	119/123 (97%)	73 (61%)	27 (23%)	19 (16%)	0	2
32	DK	119/123 (97%)	70 (59%)	30 (25%)	19 (16%)	0	2
33	BL	142/144 (99%)	56 (39%)	47 (33%)	39 (28%)	0	0
33	DL	142/144 (99%)	68 (48%)	35 (25%)	39 (28%)	0	0
34	BM	134/136 (98%)	64 (48%)	37 (28%)	33 (25%)	0	1
34	DM	134/136 (98%)	71 (53%)	43 (32%)	20 (15%)	0	3
35	BN	125/127 (98%)	68 (54%)	41 (33%)	16 (13%)	0	5

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
35	DN	125/127 (98%)	86 (69%)	29 (23%)	10 (8%)	1	13
36	BO	115/117 (98%)	61 (53%)	34 (30%)	20 (17%)	0	2
36	DO	115/117 (98%)	62 (54%)	33 (29%)	20 (17%)	0	2
37	BP	112/115 (97%)	37 (33%)	38 (34%)	37 (33%)	0	0
37	DP	112/115 (97%)	42 (38%)	37 (33%)	33 (30%)	0	0
38	BQ	115/118 (98%)	79 (69%)	23 (20%)	13 (11%)	0	7
38	DQ	115/118 (98%)	78 (68%)	21 (18%)	16 (14%)	0	4
39	BR	101/103 (98%)	39 (39%)	38 (38%)	24 (24%)	0	1
39	DR	101/103 (98%)	42 (42%)	30 (30%)	29 (29%)	0	0
40	BS	108/110 (98%)	58 (54%)	34 (32%)	16 (15%)	0	3
40	DS	108/110 (98%)	62 (57%)	26 (24%)	20 (18%)	0	2
41	BT	97/100 (97%)	38 (39%)	42 (43%)	17 (18%)	0	2
41	DT	97/100 (97%)	44 (45%)	28 (29%)	25 (26%)	0	1
42	BU	100/104 (96%)	36 (36%)	43 (43%)	21 (21%)	0	1
42	DU	100/104 (96%)	47 (47%)	34 (34%)	19 (19%)	0	2
43	BW	82/85 (96%)	35 (43%)	22 (27%)	25 (30%)	0	0
43	DW	82/85 (96%)	28 (34%)	31 (38%)	23 (28%)	0	0
44	BX	61/63 (97%)	20 (33%)	30 (49%)	11 (18%)	0	2
44	DX	61/63 (97%)	37 (61%)	15 (25%)	9 (15%)	0	3
45	BY	56/59 (95%)	29 (52%)	17 (30%)	10 (18%)	0	2
45	DY	56/59 (95%)	38 (68%)	15 (27%)	3 (5%)	2	23
46	BZ	68/70 (97%)	32 (47%)	23 (34%)	13 (19%)	0	2
46	DZ	68/70 (97%)	36 (53%)	22 (32%)	10 (15%)	0	3
47	B0	54/57 (95%)	27 (50%)	17 (32%)	10 (18%)	0	2
47	D0	54/57 (95%)	25 (46%)	20 (37%)	9 (17%)	0	2
48	B1	52/55 (94%)	22 (42%)	20 (38%)	10 (19%)	0	2
48	D1	52/55 (94%)	21 (40%)	18 (35%)	13 (25%)	0	1
49	B2	44/46 (96%)	22 (50%)	15 (34%)	7 (16%)	0	2
49	D2	44/46 (96%)	22 (50%)	10 (23%)	12 (27%)	0	0
50	B3	62/65 (95%)	26 (42%)	28 (45%)	8 (13%)	0	5
50	D3	62/65 (95%)	30 (48%)	21 (34%)	11 (18%)	0	2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	B4	36/38 (95%)	17 (47%)	9 (25%)	10 (28%)	0	0
51	D4	36/38 (95%)	13 (36%)	10 (28%)	13 (36%)	0	0
52	BI	139/142 (98%)	122 (88%)	12 (9%)	5 (4%)	4	35
52	DI	139/142 (98%)	119 (86%)	15 (11%)	5 (4%)	4	35
All	All	11263/11954 (94%)	6605 (59%)	2995 (27%)	1663 (15%)	0	3

All (1663) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AC	2	GLN
2	AC	81	GLU
2	AC	91	ALA
3	AD	18	LEU
3	AD	25	ARG
3	AD	191	SER
5	AF	92	THR
8	AI	8	THR
9	AJ	57	VAL
10	AK	56	LYS
10	AK	126	ARG
11	AL	23	LEU
11	AL	72	ASN
11	AL	104	SER
12	AM	6	ILE
12	AM	14	ALA
15	AP	79	ASN
15	AP	81	ALA
20	AB	19	THR
20	AB	22	TRP
20	AB	163	ILE
21	AU	14	ALA
21	AU	22	CYS
25	BC	21	PRO
25	BC	22	GLU
25	BC	28	PRO
25	BC	29	PHE
25	BC	31	PRO
25	BC	32	LEU
25	BC	47	ARG
25	BC	63	ILE
25	BC	64	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	BC	67	LYS
25	BC	68	ARG
25	BC	72	GLY
25	BC	97	ASP
25	BC	103	ILE
25	BC	114	GLN
25	BC	124	LYS
25	BC	135	PRO
25	BC	140	VAL
25	BC	141	HIS
25	BC	149	LYS
25	BC	156	SER
25	BC	176	ARG
25	BC	227	VAL
25	BC	246	PRO
25	BC	266	ILE
26	BD	9	VAL
26	BD	14	ILE
26	BD	33	ARG
26	BD	59	ARG
26	BD	84	LEU
26	BD	114	LYS
26	BD	127	PHE
26	BD	128	ARG
26	BD	130	GLN
26	BD	139	SER
26	BD	140	HIS
26	BD	141	ARG
26	BD	150	GLN
26	BD	154	LYS
26	BD	155	VAL
26	BD	170	VAL
27	BE	4	VAL
27	BE	44	ARG
27	BE	52	VAL
27	BE	59	PRO
27	BE	84	THR
27	BE	117	ARG
27	BE	129	PRO
27	BE	165	HIS
27	BE	196	VAL
28	BF	31	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	BF	46	LYS
28	BF	66	ILE
28	BF	73	VAL
28	BF	76	PHE
28	BF	131	VAL
28	BF	139	GLU
28	BF	149	ARG
29	BG	6	ALA
29	BG	25	ILE
29	BG	91	VAL
29	BG	151	ARG
30	BH	29	PHE
30	BH	37	VAL
30	BH	38	PRO
30	BH	41	LYS
31	BJ	4	PHE
31	BJ	43	GLU
31	BJ	44	TYR
31	BJ	64	VAL
31	BJ	73	VAL
31	BJ	100	VAL
31	BJ	101	ILE
31	BJ	119	PHE
31	BJ	137	PRO
32	BK	25	LEU
32	BK	35	VAL
32	BK	53	LYS
32	BK	71	ARG
32	BK	72	PRO
32	BK	89	ASN
32	BK	110	GLU
32	BK	120	PRO
33	BL	17	LYS
33	BL	56	PRO
33	BL	62	PRO
33	BL	73	ILE
33	BL	84	LYS
33	BL	85	VAL
33	BL	90	VAL
33	BL	91	ASP
33	BL	92	LEU
33	BL	104	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	BL	118	THR
33	BL	119	PRO
33	BL	126	ARG
33	BL	127	VAL
33	BL	141	LYS
34	BM	3	GLN
34	BM	4	PRO
34	BM	14	LYS
34	BM	69	PRO
34	BM	80	VAL
34	BM	81	ARG
34	BM	98	PRO
34	BM	109	PRO
35	BN	3	HIS
35	BN	4	ARG
35	BN	8	ARG
35	BN	37	THR
35	BN	89	SER
35	BN	107	ASN
35	BN	113	ILE
35	BN	116	VAL
36	BO	37	ALA
36	BO	42	PRO
36	BO	54	VAL
36	BO	63	LYS
37	BP	23	ASP
37	BP	24	THR
37	BP	49	ILE
37	BP	55	HIS
37	BP	60	VAL
37	BP	82	SER
37	BP	83	ILE
37	BP	85	VAL
37	BP	90	ALA
37	BP	91	VAL
37	BP	94	ALA
37	BP	111	GLU
38	BQ	34	ALA
38	BQ	89	ILE
38	BQ	92	LYS
39	BR	15	SER
39	BR	24	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	BR	47	VAL
39	BR	59	ILE
39	BR	74	ILE
39	BR	101	ILE
40	BS	6	LYS
40	BS	103	ILE
41	BT	32	LEU
41	BT	63	VAL
42	BU	4	ILE
42	BU	21	ARG
42	BU	63	ALA
42	BU	92	VAL
43	BW	11	ASN
43	BW	18	LYS
43	BW	44	PHE
43	BW	53	GLY
43	BW	66	VAL
43	BW	67	LYS
43	BW	75	ASN
43	BW	81	ILE
44	BX	24	GLU
44	BX	33	ALA
44	BX	46	VAL
45	BY	9	THR
45	BY	51	SER
46	BZ	4	ASP
46	BZ	7	PRO
46	BZ	8	LYS
46	BZ	26	SER
46	BZ	60	PHE
47	B0	29	VAL
47	B0	35	GLU
48	B1	45	HIS
48	B1	46	VAL
49	B2	4	THR
49	B2	43	THR
49	B2	44	VAL
50	B3	16	THR
50	B3	23	HIS
50	B3	57	VAL
50	B3	60	CYS
51	B4	5	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	B4	17	VAL
51	B4	24	ARG
51	B4	29	ALA
51	B4	35	GLN
52	BI	18	ASN
2	CC	54	ILE
3	CD	24	VAL
3	CD	49	ASP
3	CD	121	ALA
4	CE	23	THR
5	CF	98	GLU
6	CG	3	ARG
6	CG	62	GLU
7	CH	66	GLN
7	CH	82	LEU
9	CJ	34	ALA
9	CJ	57	VAL
9	CJ	61	ALA
9	CJ	67	ILE
11	CL	10	PRO
11	CL	32	VAL
11	CL	33	CYS
11	CL	43	LYS
11	CL	88	ASP
11	CL	101	LEU
11	CL	111	GLN
12	CM	22	TYR
12	CM	105	ALA
13	CN	29	ILE
13	CN	50	LEU
14	CO	73	ASP
15	CP	28	ARG
18	CS	29	PRO
18	CS	62	THR
19	CT	3	ILE
19	CT	4	LYS
20	CB	22	TRP
20	CB	73	ARG
20	CB	188	THR
20	CB	206	ILE
20	CB	208	ALA
25	DC	28	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DC	29	PHE
25	DC	31	PRO
25	DC	32	LEU
25	DC	47	ARG
25	DC	63	ILE
25	DC	87	SER
25	DC	88	ALA
25	DC	97	ASP
25	DC	121	ALA
25	DC	125	PRO
25	DC	135	PRO
25	DC	149	LYS
25	DC	157	ALA
25	DC	163	ILE
25	DC	164	VAL
25	DC	176	ARG
25	DC	194	VAL
25	DC	200	MET
25	DC	246	PRO
25	DC	259	ASN
25	DC	266	ILE
26	DD	9	VAL
26	DD	34	VAL
26	DD	39	ASP
26	DD	45	TYR
26	DD	55	LYS
26	DD	82	PHE
26	DD	84	LEU
26	DD	85	ALA
26	DD	129	THR
26	DD	140	HIS
26	DD	152	PRO
26	DD	155	VAL
26	DD	157	LYS
26	DD	160	LYS
27	DE	17	THR
27	DE	45	ALA
27	DE	86	ALA
27	DE	91	ASP
27	DE	147	LEU
27	DE	162	ARG
28	DF	46	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	DF	73	VAL
28	DF	84	ILE
28	DF	133	GLU
28	DF	173	ASP
29	DG	2	ARG
29	DG	4	ALA
29	DG	6	ALA
29	DG	101	VAL
30	DH	11	ASN
30	DH	38	PRO
30	DH	121	VAL
31	DJ	4	PHE
31	DJ	11	VAL
31	DJ	43	GLU
31	DJ	44	TYR
31	DJ	64	VAL
31	DJ	78	THR
31	DJ	81	ILE
31	DJ	124	VAL
32	DK	71	ARG
32	DK	72	PRO
32	DK	113	MET
32	DK	120	PRO
33	DL	7	SER
33	DL	8	PRO
33	DL	17	LYS
33	DL	38	GLN
33	DL	51	GLU
33	DL	54	GLN
33	DL	72	ALA
33	DL	92	LEU
33	DL	111	ILE
33	DL	119	PRO
33	DL	126	ARG
33	DL	127	VAL
33	DL	142	ILE
34	DM	5	LYS
34	DM	16	ARG
34	DM	17	ASN
34	DM	65	ILE
34	DM	71	LYS
34	DM	72	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	DM	84	LYS
34	DM	86	LYS
34	DM	101	VAL
34	DM	106	ASP
34	DM	109	PRO
35	DN	91	ALA
36	DO	23	ALA
36	DO	27	VAL
36	DO	54	VAL
36	DO	63	LYS
36	DO	90	VAL
37	DP	17	PRO
37	DP	23	ASP
37	DP	24	THR
37	DP	41	ALA
37	DP	60	VAL
37	DP	71	ARG
37	DP	72	VAL
37	DP	76	HIS
37	DP	77	SER
37	DP	79	VAL
37	DP	80	VAL
37	DP	82	SER
37	DP	105	LYS
37	DP	110	LYS
37	DP	111	GLU
38	DQ	73	ILE
38	DQ	89	ILE
38	DQ	93	ILE
39	DR	22	LEU
39	DR	27	ILE
39	DR	73	LYS
39	DR	75	VAL
39	DR	89	HIS
39	DR	90	ARG
39	DR	97	LYS
40	DS	60	HIS
40	DS	103	ILE
41	DT	27	SER
41	DT	57	VAL
41	DT	62	VAL
41	DT	95	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	DU	30	SER
42	DU	63	ALA
42	DU	66	VAL
42	DU	75	ALA
43	DW	30	VAL
43	DW	34	SER
43	DW	44	PHE
43	DW	57	THR
43	DW	58	LEU
43	DW	66	VAL
46	DZ	21	VAL
46	DZ	28	VAL
46	DZ	31	ASP
46	DZ	40	CYS
47	D0	31	LYS
47	D0	45	ASP
48	D1	14	ALA
48	D1	23	THR
48	D1	46	VAL
49	D2	44	VAL
50	D3	30	HIS
51	D4	3	VAL
51	D4	17	VAL
51	D4	19	ARG
51	D4	24	ARG
51	D4	26	ILE
51	D4	27	CYS
52	DI	18	ASN
2	AC	100	ILE
2	AC	153	SER
3	AD	31	CYS
3	AD	107	GLY
3	AD	152	SER
3	AD	172	VAL
3	AD	192	ALA
4	AE	20	VAL
4	AE	76	ASN
4	AE	107	GLY
5	AF	62	MET
6	AG	18	GLY
6	AG	129	ASN
8	AI	43	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AI	57	VAL
8	AI	108	ARG
9	AJ	74	VAL
9	AJ	75	ASP
10	AK	53	GLY
11	AL	10	PRO
11	AL	84	GLY
12	AM	3	ILE
12	AM	7	ASN
12	AM	66	GLY
12	AM	104	ASN
13	AN	51	PRO
13	AN	52	ARG
13	AN	61	ASN
13	AN	94	GLY
15	AP	29	ASN
16	AQ	6	THR
16	AQ	34	GLY
16	AQ	69	THR
17	AR	20	ILE
17	AR	22	TYR
17	AR	71	ASP
18	AS	5	LYS
19	AT	3	ILE
19	AT	85	LEU
21	AU	32	ARG
21	AU	33	ARG
21	AU	52	VAL
24	BV	45	ASP
25	BC	4	LYS
25	BC	14	HIS
25	BC	48	ILE
25	BC	51	ARG
25	BC	90	ILE
25	BC	107	LYS
25	BC	111	ALA
25	BC	143	VAL
25	BC	157	ALA
25	BC	163	ILE
25	BC	194	VAL
25	BC	208	GLY
25	BC	209	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	BC	226	PRO
26	BD	2	ILE
26	BD	16	THR
26	BD	27	ILE
26	BD	30	GLU
26	BD	42	ASN
26	BD	101	PHE
26	BD	104	VAL
26	BD	125	TRP
26	BD	129	THR
26	BD	169	ARG
26	BD	202	ILE
26	BD	205	PRO
26	BD	206	ALA
26	BD	207	VAL
27	BE	23	PHE
27	BE	26	ALA
27	BE	37	ALA
27	BE	47	LYS
27	BE	49	ARG
27	BE	54	GLY
27	BE	61	ARG
27	BE	68	ALA
27	BE	86	ALA
27	BE	90	GLN
27	BE	104	ALA
27	BE	120	VAL
27	BE	128	ALA
27	BE	146	VAL
27	BE	148	ILE
27	BE	169	VAL
27	BE	171	ASP
28	BF	14	LYS
28	BF	114	ARG
28	BF	136	ILE
28	BF	153	ILE
28	BF	162	ASP
28	BF	176	PHE
29	BG	2	ARG
29	BG	32	LEU
29	BG	42	VAL
29	BG	47	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	BG	173	ALA
30	BH	8	LYS
30	BH	44	ILE
30	BH	65	ALA
30	BH	127	GLU
30	BH	134	VAL
31	BJ	6	ALA
31	BJ	18	VAL
31	BJ	79	GLY
31	BJ	81	ILE
31	BJ	84	ILE
31	BJ	138	GLN
32	BK	17	ARG
32	BK	92	GLU
33	BL	15	ALA
33	BL	29	LYS
33	BL	31	GLY
33	BL	53	GLY
33	BL	94	THR
33	BL	95	LEU
33	BL	117	THR
33	BL	120	VAL
33	BL	143	GLU
34	BM	7	THR
34	BM	36	VAL
34	BM	58	LYS
34	BM	70	ASP
34	BM	86	LYS
34	BM	87	GLY
34	BM	104	GLU
34	BM	132	THR
35	BN	11	ASN
35	BN	94	TYR
35	BN	104	ALA
35	BN	114	GLU
36	BO	9	ARG
36	BO	21	LEU
36	BO	28	VAL
36	BO	38	GLN
36	BO	47	VAL
36	BO	49	VAL
36	BO	95	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BO	115	LEU
37	BP	29	VAL
37	BP	30	TRP
37	BP	41	ALA
37	BP	56	SER
37	BP	59	THR
37	BP	62	LYS
37	BP	72	VAL
37	BP	76	HIS
37	BP	80	VAL
37	BP	81	ASP
37	BP	97	TYR
37	BP	102	ARG
37	BP	105	LYS
37	BP	110	LYS
37	BP	112	ARG
38	BQ	21	LYS
38	BQ	23	TYR
38	BQ	33	VAL
38	BQ	78	PHE
38	BQ	91	ARG
38	BQ	93	ILE
39	BR	17	GLY
39	BR	25	LEU
39	BR	29	THR
39	BR	37	GLU
39	BR	87	GLN
39	BR	98	ILE
39	BR	100	GLY
40	BS	3	THR
40	BS	5	ALA
40	BS	29	VAL
40	BS	67	ASP
40	BS	96	ILE
41	BT	4	GLU
41	BT	6	ARG
41	BT	14	PRO
41	BT	15	HIS
41	BT	30	ILE
41	BT	34	VAL
41	BT	67	VAL
41	BT	74	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BT	81	LYS
41	BT	85	VAL
42	BU	14	THR
42	BU	24	VAL
42	BU	35	VAL
42	BU	45	GLN
42	BU	54	PRO
42	BU	60	LYS
42	BU	64	ILE
42	BU	71	ILE
42	BU	77	GLY
43	BW	23	LYS
43	BW	38	ARG
43	BW	40	ARG
43	BW	50	VAL
43	BW	63	ASP
43	BW	72	GLY
43	BW	77	LYS
44	BX	9	LYS
44	BX	16	THR
44	BX	36	GLN
44	BX	40	SER
45	BY	3	THR
45	BY	12	ALA
46	BZ	9	TYR
46	BZ	39	LYS
46	BZ	40	CYS
46	BZ	58	ASP
47	B0	41	HIS
47	B0	49	ARG
49	B2	36	ALA
50	B3	15	LYS
51	B4	20	ASP
51	B4	22	VAL
2	CC	25	THR
2	CC	63	ILE
2	CC	65	VAL
2	CC	95	GLY
2	CC	128	MET
2	CC	153	SER
3	CD	14	GLU
3	CD	47	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	CD	120	LYS
3	CD	169	TRP
4	CE	15	ILE
4	CE	17	VAL
4	CE	107	GLY
5	CF	89	VAL
6	CG	16	LYS
6	CG	113	LYS
6	CG	130	LYS
7	CH	69	ALA
7	CH	122	GLY
8	CI	24	ASN
8	CI	57	VAL
9	CJ	33	GLY
9	CJ	37	ARG
9	CJ	60	ASP
9	CJ	74	VAL
9	CJ	77	VAL
9	CJ	94	ALA
10	CK	14	GLN
10	CK	17	ASP
11	CL	13	ARG
11	CL	97	VAL
11	CL	104	SER
11	CL	117	GLY
11	CL	121	PRO
12	CM	3	ILE
12	CM	7	ASN
12	CM	23	GLY
13	CN	21	ALA
13	CN	51	PRO
14	CO	3	SER
15	CP	46	LYS
15	CP	79	ASN
16	CQ	28	VAL
16	CQ	47	ASP
16	CQ	56	ASP
16	CQ	69	THR
17	CR	21	ASP
18	CS	27	LYS
18	CS	69	LYS
20	CB	18	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	CB	19	THR
20	CB	72	LYS
20	CB	97	GLY
20	CB	124	THR
20	CB	193	ASP
21	CU	22	CYS
24	DV	14	LYS
24	DV	45	ASP
24	DV	70	ILE
25	DC	21	PRO
25	DC	22	GLU
25	DC	39	SER
25	DC	43	ASN
25	DC	52	HIS
25	DC	53	ILE
25	DC	65	ASP
25	DC	70	LYS
25	DC	90	ILE
25	DC	93	VAL
25	DC	106	PRO
25	DC	156	SER
25	DC	173	LEU
25	DC	199	HIS
25	DC	201	LEU
25	DC	210	ALA
25	DC	227	VAL
25	DC	252	LYS
26	DD	43	ASP
26	DD	73	VAL
26	DD	77	ARG
26	DD	89	GLU
26	DD	95	SER
26	DD	145	SER
26	DD	168	GLU
26	DD	184	ARG
26	DD	185	ASN
26	DD	187	LEU
26	DD	193	VAL
26	DD	197	THR
26	DD	205	PRO
26	DD	206	ALA
27	DE	4	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DE	7	ASP
27	DE	13	THR
27	DE	43	THR
27	DE	48	THR
27	DE	49	ARG
27	DE	54	GLY
27	DE	59	PRO
27	DE	84	THR
27	DE	85	PHE
27	DE	110	SER
27	DE	115	GLN
27	DE	126	VAL
27	DE	148	ILE
27	DE	149	ILE
27	DE	153	LEU
27	DE	166	LYS
27	DE	168	ASP
27	DE	195	GLN
28	DF	20	ASN
28	DF	49	LEU
28	DF	66	ILE
28	DF	80	GLN
28	DF	83	PRO
28	DF	109	ARG
28	DF	136	ILE
28	DF	149	ARG
28	DF	150	GLY
28	DF	174	PHE
29	DG	5	LYS
29	DG	37	ASN
30	DH	10	ALA
30	DH	25	TYR
30	DH	30	LEU
30	DH	82	SER
30	DH	91	PHE
31	DJ	50	THR
31	DJ	65	THR
31	DJ	128	ASN
31	DJ	129	GLU
31	DJ	131	ASN
31	DJ	135	GLN
32	DK	3	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
32	DK	10	VAL
32	DK	18	ARG
32	DK	83	ALA
33	DL	15	ALA
33	DL	20	GLY
33	DL	27	LEU
33	DL	40	SER
33	DL	64	PHE
33	DL	108	ALA
33	DL	109	LYS
33	DL	110	VAL
34	DM	80	VAL
34	DM	102	LEU
35	DN	100	CYS
35	DN	116	VAL
36	DO	22	GLY
36	DO	65	THR
36	DO	84	GLU
36	DO	96	GLY
36	DO	99	TYR
36	DO	101	GLY
37	DP	27	VAL
37	DP	49	ILE
37	DP	69	VAL
37	DP	75	THR
37	DP	83	ILE
37	DP	91	VAL
38	DQ	5	ARG
38	DQ	30	VAL
38	DQ	31	TYR
38	DQ	85	ALA
38	DQ	88	GLU
39	DR	4	VAL
39	DR	5	PHE
39	DR	11	GLN
39	DR	59	ILE
39	DR	81	LYS
39	DR	82	HIS
39	DR	93	PHE
40	DS	4	ILE
40	DS	12	SER
40	DS	26	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
40	DS	41	LYS
40	DS	64	ALA
40	DS	69	LEU
40	DS	87	PRO
41	DT	7	LEU
41	DT	15	HIS
41	DT	31	VAL
41	DT	36	LYS
41	DT	52	GLU
41	DT	63	VAL
41	DT	71	GLY
41	DT	85	VAL
42	DU	4	ILE
42	DU	9	GLU
42	DU	24	VAL
42	DU	28	LEU
42	DU	42	LYS
42	DU	93	ARG
43	DW	4	LYS
43	DW	10	ARG
43	DW	18	LYS
43	DW	45	HIS
43	DW	62	ALA
43	DW	75	ASN
43	DW	77	LYS
44	DX	20	ASN
45	DY	12	ALA
46	DZ	3	LYS
46	DZ	10	GLU
47	D0	35	GLU
47	D0	47	TYR
48	D1	30	PRO
48	D1	38	PHE
48	D1	47	ILE
48	D1	50	GLU
49	D2	5	PHE
49	D2	18	PHE
49	D2	25	LYS
50	D3	5	THR
50	D3	26	ALA
51	D4	10	LEU
2	AC	25	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	AC	83	VAL
2	AC	136	ALA
2	AC	180	ASP
3	AD	28	ASP
3	AD	148	ALA
3	AD	151	GLN
4	AE	43	GLY
5	AF	65	GLU
6	AG	75	LYS
7	AH	46	GLU
7	AH	65	PHE
9	AJ	61	ALA
9	AJ	62	ARG
9	AJ	92	LEU
9	AJ	93	ALA
10	AK	77	GLY
10	AK	125	LYS
11	AL	13	ARG
11	AL	15	VAL
11	AL	47	ALA
11	AL	120	ARG
12	AM	22	TYR
12	AM	98	GLY
13	AN	2	LYS
13	AN	80	ARG
17	AR	32	ILE
18	AS	3	SER
20	AB	18	GLN
20	AB	20	ARG
20	AB	27	LYS
20	AB	76	SER
20	AB	88	GLN
20	AB	186	VAL
21	AU	24	LYS
21	AU	35	GLU
21	AU	40	PRO
24	BV	54	ALA
24	BV	64	VAL
24	BV	71	LYS
25	BC	34	GLU
25	BC	41	GLY
25	BC	52	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	BC	53	ILE
25	BC	58	LYS
25	BC	59	GLN
25	BC	65	ASP
25	BC	66	PHE
25	BC	91	ALA
25	BC	93	VAL
25	BC	108	GLY
25	BC	125	PRO
25	BC	231	HIS
25	BC	239	PHE
25	BC	251	THR
25	BC	255	LYS
25	BC	259	ASN
26	BD	18	ASP
26	BD	21	SER
26	BD	23	PRO
26	BD	105	LYS
26	BD	189	VAL
27	BE	11	ALA
27	BE	24	ASN
27	BE	62	GLN
27	BE	93	SER
27	BE	191	ASP
28	BF	19	PHE
28	BF	34	THR
28	BF	67	THR
28	BF	75	GLY
28	BF	81	GLY
28	BF	88	VAL
28	BF	173	ASP
29	BG	127	GLN
30	BH	125	THR
31	BJ	50	THR
31	BJ	74	TYR
31	BJ	83	GLY
31	BJ	85	LYS
32	BK	46	ALA
32	BK	112	PHE
33	BL	22	GLY
33	BL	27	LEU
33	BL	38	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	BL	48	ARG
33	BL	57	LEU
34	BM	35	ALA
34	BM	59	ARG
34	BM	77	PRO
34	BM	105	MET
34	BM	127	LYS
35	BN	6	SER
35	BN	102	PHE
36	BO	32	PRO
36	BO	52	SER
36	BO	68	LYS
37	BP	17	PRO
37	BP	48	ALA
37	BP	52	ARG
37	BP	71	ARG
37	BP	78	PRO
38	BQ	73	ILE
39	BR	18	GLN
39	BR	42	ALA
39	BR	45	GLU
39	BR	73	LYS
39	BR	76	LYS
39	BR	77	PHE
40	BS	13	SER
40	BS	69	LEU
41	BT	13	ALA
41	BT	61	LEU
42	BU	18	LYS
42	BU	39	ASN
42	BU	67	SER
42	BU	72	PHE
42	BU	96	LYS
43	BW	6	GLY
43	BW	49	ASN
43	BW	62	ALA
43	BW	65	LYS
43	BW	68	PHE
44	BX	4	LYS
44	BX	28	LEU
45	BY	14	GLY
45	BY	16	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	BY	42	ALA
47	B0	4	GLN
48	B1	8	ILE
48	B1	35	LEU
48	B1	43	ARG
51	B4	3	VAL
51	B4	10	LEU
52	BI	14	ALA
52	BI	23	VAL
2	CC	3	LYS
2	CC	145	ALA
2	CC	167	TYR
5	CF	85	ILE
5	CF	95	ALA
6	CG	55	LYS
7	CH	30	LYS
7	CH	53	ASP
8	CI	34	LEU
8	CI	55	ASP
8	CI	106	ASP
9	CJ	68	ARG
9	CJ	93	ALA
9	CJ	100	ILE
10	CK	52	ARG
10	CK	53	GLY
10	CK	88	PRO
10	CK	108	ASN
11	CL	24	GLU
11	CL	73	LEU
12	CM	62	PHE
12	CM	65	GLU
13	CN	33	VAL
13	CN	42	ASN
13	CN	43	ALA
13	CN	52	ARG
13	CN	69	PRO
13	CN	70	HIS
15	CP	47	GLU
18	CS	8	PRO
18	CS	34	SER
18	CS	63	ASP
19	CT	68	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	CB	43	GLU
20	CB	44	LYS
20	CB	94	ARG
20	CB	95	TRP
20	CB	114	LYS
20	CB	128	LEU
20	CB	204	ASP
21	CU	23	GLU
25	DC	66	PHE
25	DC	115	ILE
25	DC	172	THR
25	DC	184	GLU
25	DC	243	PRO
25	DC	265	PHE
26	DD	47	ALA
26	DD	139	SER
26	DD	141	ARG
26	DD	147	GLY
26	DD	174	SER
27	DE	30	GLN
27	DE	38	GLY
27	DE	67	ARG
27	DE	90	GLN
27	DE	139	LYS
27	DE	172	ALA
27	DE	190	ALA
28	DF	42	ALA
28	DF	43	ILE
28	DF	88	VAL
28	DF	104	THR
28	DF	134	GLN
28	DF	138	PRO
28	DF	176	PHE
29	DG	11	PRO
29	DG	45	ALA
29	DG	60	GLY
29	DG	173	ALA
30	DH	31	VAL
30	DH	37	VAL
30	DH	86	ASP
30	DH	92	GLY
31	DJ	8	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DJ	41	LYS
31	DJ	53	TYR
31	DJ	58	ASN
31	DJ	75	TYR
31	DJ	77	HIS
31	DJ	85	LYS
31	DJ	137	PRO
32	DK	12	ASP
32	DK	17	ARG
33	DL	14	LYS
33	DL	44	GLY
33	DL	45	GLY
33	DL	52	GLY
33	DL	55	MET
33	DL	116	VAL
33	DL	141	LYS
34	DM	4	PRO
34	DM	127	LYS
34	DM	128	THR
35	DN	32	GLU
36	DO	34	HIS
36	DO	38	GLN
36	DO	87	ILE
37	DP	39	LEU
37	DP	97	TYR
37	DP	112	ARG
38	DQ	53	LYS
38	DQ	86	SER
39	DR	3	ALA
39	DR	10	LYS
39	DR	42	ALA
39	DR	64	VAL
39	DR	86	GLN
40	DS	9	HIS
40	DS	99	ARG
41	DT	16	VAL
41	DT	39	THR
41	DT	68	LYS
41	DT	96	VAL
42	DU	62	ALA
42	DU	64	ILE
42	DU	99	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
43	DW	5	ALA
43	DW	9	THR
43	DW	65	LYS
44	DX	28	LEU
44	DX	31	GLN
44	DX	35	GLY
44	DX	52	ARG
45	DY	37	ARG
46	DZ	26	SER
47	D0	36	LYS
47	D0	43	THR
48	D1	32	LYS
49	D2	7	PRO
49	D2	8	SER
50	D3	10	ALA
50	D3	47	ALA
51	D4	11	CYS
51	D4	31	PRO
52	DI	23	VAL
2	AC	19	SER
2	AC	54	ILE
2	AC	65	VAL
3	AD	7	LYS
3	AD	27	ILE
3	AD	29	THR
3	AD	143	SER
4	AE	34	ALA
4	AE	128	GLY
5	AF	64	VAL
5	AF	94	HIS
6	AG	84	TYR
8	AI	44	ARG
8	AI	55	ASP
8	AI	67	LYS
8	AI	127	SER
9	AJ	36	VAL
9	AJ	56	HIS
9	AJ	95	GLY
11	AL	14	LYS
11	AL	122	LYS
13	AN	21	ALA
15	AP	27	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AP	42	ILE
15	AP	54	LEU
18	AS	8	PRO
18	AS	15	LEU
18	AS	39	ILE
19	AT	59	ARG
20	AB	41	ASN
20	AB	150	ILE
20	AB	200	PRO
20	AB	205	ALA
21	AU	6	ARG
21	AU	36	PHE
21	AU	37	TYR
25	BC	50	THR
25	BC	61	TYR
25	BC	151	GLY
25	BC	165	ALA
25	BC	236	GLY
25	BC	257	ARG
25	BC	258	SER
25	BC	265	PHE
26	BD	47	ALA
26	BD	87	GLY
26	BD	90	PHE
26	BD	145	SER
26	BD	185	ASN
26	BD	190	LYS
26	BD	193	VAL
27	BE	39	ALA
27	BE	53	THR
27	BE	106	LYS
28	BF	7	TYR
28	BF	45	ASP
28	BF	74	ALA
28	BF	172	PHE
29	BG	48	THR
29	BG	155	PRO
29	BG	174	LYS
30	BH	20	ASN
31	BJ	25	LEU
31	BJ	36	LEU
31	BJ	97	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BJ	127	GLY
32	BK	6	THR
32	BK	121	GLU
33	BL	42	SER
33	BL	54	GLN
33	BL	82	LEU
33	BL	109	LYS
34	BM	10	ARG
34	BM	28	PHE
34	BM	133	LYS
36	BO	36	TYR
36	BO	87	ILE
36	BO	90	VAL
37	BP	77	SER
39	BR	27	ILE
39	BR	95	ASP
40	BS	11	ARG
40	BS	99	ARG
41	BT	5	GLU
42	BU	3	LYS
42	BU	59	GLU
43	BW	32	ALA
44	BX	7	ARG
45	BY	15	ARG
45	BY	17	PRO
46	BZ	23	LYS
47	B0	5	ASN
48	B1	5	ARG
48	B1	16	THR
48	B1	38	PHE
48	B1	47	ILE
49	B2	42	LEU
51	B4	7	VAL
52	BI	49	GLU
52	BI	64	ARG
2	CC	50	SER
2	CC	59	PRO
2	CC	60	ALA
2	CC	110	LEU
2	CC	144	GLY
3	CD	22	SER
3	CD	26	ALA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	CD	119	HIS
3	CD	166	LYS
4	CE	87	VAL
4	CE	146	MET
6	CG	66	GLU
6	CG	78	ARG
6	CG	128	GLU
6	CG	129	ASN
7	CH	94	VAL
8	CI	58	GLU
8	CI	90	ASP
9	CJ	56	HIS
9	CJ	75	ASP
11	CL	23	LEU
12	CM	97	ARG
12	CM	102	LYS
12	CM	104	ASN
13	CN	62	ARG
13	CN	65	GLN
15	CP	27	ALA
18	CS	5	LYS
18	CS	22	VAL
18	CS	61	VAL
18	CS	77	ARG
19	CT	67	HIS
20	CB	15	PHE
20	CB	86	CYS
20	CB	126	ASP
21	CU	12	ASP
24	DV	16	ALA
24	DV	71	LYS
25	DC	12	ARG
25	DC	103	ILE
25	DC	113	ASP
25	DC	124	LYS
25	DC	152	GLN
25	DC	226	PRO
25	DC	239	PHE
26	DD	87	GLY
26	DD	173	GLN
27	DE	50	ALA
27	DE	72	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DE	111	GLU
28	DF	34	THR
28	DF	36	ASN
28	DF	67	THR
28	DF	70	ARG
29	DG	36	LEU
30	DH	114	GLU
31	DJ	23	LYS
31	DJ	60	ASP
31	DJ	134	ALA
32	DK	29	HIS
32	DK	46	ALA
32	DK	84	CYS
32	DK	86	LEU
32	DK	89	ASN
33	DL	5	THR
33	DL	60	ARG
33	DL	82	LEU
33	DL	118	THR
34	DM	107	GLY
35	DN	99	LYS
35	DN	102	PHE
35	DN	113	ILE
36	DO	2	ASP
37	DP	15	ASP
37	DP	29	VAL
37	DP	33	GLU
37	DP	62	LYS
37	DP	73	PHE
37	DP	90	ALA
38	DQ	4	LYS
38	DQ	9	ALA
39	DR	71	LYS
39	DR	87	GLN
39	DR	98	ILE
40	DS	8	ARG
40	DS	13	SER
40	DS	23	LEU
40	DS	27	LYS
40	DS	80	PRO
41	DT	32	LEU
41	DT	67	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	DT	79	ASP
42	DU	25	LYS
42	DU	58	VAL
42	DU	94	PHE
43	DW	16	GLU
43	DW	22	VAL
43	DW	61	LYS
43	DW	63	ASP
43	DW	76	ARG
44	DX	36	GLN
45	DY	51	SER
46	DZ	32	LEU
46	DZ	35	ASP
47	D0	20	ALA
47	D0	51	ARG
48	D1	5	ARG
48	D1	43	ARG
48	D1	51	ALA
49	D2	17	GLY
49	D2	22	MET
51	D4	9	LYS
52	DI	14	ALA
2	AC	14	VAL
2	AC	59	PRO
2	AC	145	ALA
2	AC	186	SER
3	AD	6	PRO
3	AD	43	ARG
3	AD	177	MET
6	AG	57	GLU
6	AG	137	ARG
10	AK	106	ILE
10	AK	127	ARG
13	AN	14	ALA
17	AR	47	ARG
18	AS	4	LEU
18	AS	27	LYS
18	AS	66	VAL
20	AB	87	ASP
20	AB	121	GLN
21	AU	13	VAL
21	AU	26	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	BV	70	ILE
24	BV	93	ARG
25	BC	30	ALA
25	BC	40	GLY
25	BC	112	GLY
25	BC	115	ILE
25	BC	196	ASN
25	BC	217	PRO
25	BC	230	PRO
26	BD	52	THR
26	BD	162	ALA
26	BD	174	SER
28	BF	10	GLU
28	BF	22	ASN
28	BF	77	LYS
28	BF	87	LYS
28	BF	122	ASP
29	BG	11	PRO
29	BG	43	LYS
29	BG	159	LYS
31	BJ	46	PRO
31	BJ	53	TYR
31	BJ	66	GLY
32	BK	3	GLN
32	BK	4	GLU
32	BK	85	VAL
33	BL	114	GLY
33	BL	125	LEU
33	BL	128	THR
34	BM	29	GLY
34	BM	30	SER
34	BM	125	PRO
35	BN	73	ASN
36	BO	31	THR
37	BP	39	LEU
38	BQ	20	ALA
38	BQ	26	ALA
39	BR	72	VAL
40	BS	9	HIS
40	BS	57	ASN
40	BS	64	ALA
40	BS	71	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BT	39	THR
41	BT	88	LYS
43	BW	5	ALA
43	BW	31	LEU
45	BY	10	ARG
46	BZ	5	ILE
47	B0	53	VAL
48	B1	21	THR
49	B2	6	GLN
49	B2	17	GLY
50	B3	24	LYS
50	B3	31	ILE
2	CC	100	ILE
2	CC	129	PHE
3	CD	191	SER
3	CD	203	TYR
3	CD	204	SER
5	CF	53	LYS
5	CF	68	GLN
8	CI	8	THR
8	CI	9	GLY
8	CI	121	ARG
9	CJ	36	VAL
9	CJ	86	ALA
10	CK	49	SER
12	CM	21	ILE
13	CN	31	SER
13	CN	73	LEU
13	CN	74	ARG
15	CP	44	SER
15	CP	55	ASP
15	CP	69	ASP
17	CR	63	TYR
20	CB	211	LEU
21	CU	39	LYS
25	DC	50	THR
25	DC	58	LYS
25	DC	137	GLY
25	DC	175	LEU
26	DD	2	ILE
26	DD	49	GLN
26	DD	149	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DE	18	THR
27	DE	46	GLN
27	DE	89	PRO
27	DE	157	LEU
27	DE	188	MET
27	DE	192	ALA
28	DF	10	GLU
28	DF	153	ILE
29	DG	44	HIS
29	DG	151	ARG
29	DG	164	ALA
30	DH	66	ASN
31	DJ	111	LYS
31	DJ	125	TYR
31	DJ	139	VAL
32	DK	14	SER
32	DK	26	GLY
32	DK	85	VAL
33	DL	74	THR
34	DM	77	PRO
34	DM	82	MET
35	DN	41	ALA
35	DN	107	ASN
36	DO	18	LEU
36	DO	103	VAL
37	DP	59	THR
37	DP	106	ALA
38	DQ	78	PHE
38	DQ	87	VAL
39	DR	37	GLU
39	DR	84	ARG
40	DS	22	ASP
40	DS	92	ARG
41	DT	60	THR
41	DT	66	LYS
41	DT	86	THR
42	DU	57	ILE
43	DW	55	ASP
44	DX	51	ALA
44	DX	61	ALA
46	DZ	19	GLY
48	D1	21	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
48	D1	29	LYS
49	D2	14	ARG
49	D2	15	SER
49	D2	45	SER
50	D3	13	PHE
50	D3	29	ARG
50	D3	33	THR
51	D4	8	LYS
52	DI	5	GLN
4	AE	25	LYS
6	AG	6	ILE
6	AG	86	VAL
7	AH	82	LEU
10	AK	91	GLY
12	AM	65	GLU
13	AN	33	VAL
16	AQ	28	VAL
18	AS	36	ARG
18	AS	52	ASN
18	AS	67	GLY
21	AU	23	GLU
25	BC	164	VAL
25	BC	224	MET
26	BD	19	GLY
26	BD	99	GLU
26	BD	180	VAL
27	BE	75	SER
27	BE	145	ASP
27	BE	186	VAL
28	BF	83	PRO
28	BF	175	PRO
29	BG	84	LYS
30	BH	108	VAL
31	BJ	121	LYS
32	BK	49	ARG
34	BM	21	ALA
34	BM	26	VAL
34	BM	97	GLN
35	BN	115	LEU
37	BP	26	GLU
39	BR	7	SER
39	BR	12	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	BU	56	GLY
43	BW	42	THR
46	BZ	32	LEU
46	BZ	66	ILE
47	B0	34	GLY
50	B3	26	ALA
2	CC	127	VAL
3	CD	35	GLN
3	CD	37	PRO
4	CE	20	VAL
4	CE	78	GLY
5	CF	84	VAL
5	CF	99	ALA
6	CG	99	ALA
8	CI	23	GLY
8	CI	71	ILE
9	CJ	32	THR
9	CJ	62	ARG
11	CL	99	GLY
11	CL	103	CYS
13	CN	3	GLN
15	CP	54	LEU
17	CR	36	GLY
19	CT	44	ALA
20	CB	20	ARG
20	CB	205	ALA
25	DC	60	ALA
25	DC	208	GLY
25	DC	217	PRO
25	DC	224	MET
25	DC	244	VAL
26	DD	29	VAL
26	DD	48	ILE
26	DD	53	GLY
27	DE	56	GLY
27	DE	66	GLY
27	DE	167	VAL
31	DJ	46	PRO
31	DJ	67	ASN
33	DL	9	ALA
33	DL	49	GLY
35	DN	123	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	DP	26	GLU
39	DR	54	VAL
39	DR	63	VAL
39	DR	102	SER
40	DS	3	THR
40	DS	42	LYS
41	DT	76	ARG
41	DT	92	ASN
42	DU	65	GLN
43	DW	52	CYS
44	DX	8	GLU
50	D3	49	VAL
51	D4	28	SER
3	AD	175	GLY
11	AL	121	PRO
14	AO	26	VAL
20	AB	24	PRO
26	BD	96	ILE
27	BE	82	GLY
29	BG	7	PRO
33	BL	11	GLY
33	BL	102	GLY
40	BS	4	ILE
43	BW	35	ILE
47	B0	46	GLY
6	CG	18	GLY
21	CU	13	VAL
26	DD	76	GLY
27	DE	58	LYS
30	DH	85	GLY
32	DK	103	VAL
33	DL	32	GLY
34	DM	85	GLY
36	DO	28	VAL
38	DQ	72	GLY
39	DR	33	VAL
39	DR	47	VAL
4	AE	26	GLY
17	AR	43	ILE
25	BC	16	VAL
25	BC	214	GLY
26	BD	73	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	BD	203	VAL
28	BF	148	VAL
29	BG	110	HIS
30	BH	34	GLY
30	BH	95	GLY
32	BK	15	GLY
34	BM	71	LYS
34	BM	131	VAL
38	BQ	7	VAL
44	BX	11	VAL
3	CD	27	ILE
10	CK	15	VAL
12	CM	42	VAL
16	CQ	32	ILE
17	CR	20	ILE
25	DC	48	ILE
25	DC	161	VAL
30	DH	4	ILE
33	DL	100	ILE
41	DT	58	VAL
50	D3	31	ILE
50	D3	62	PRO
52	DI	34	ILE
3	AD	63	ILE
7	AH	71	VAL
8	AI	71	ILE
9	AJ	41	PRO
24	BV	84	PRO
25	BC	234	GLY
26	BD	98	VAL
27	BE	113	VAL
27	BE	187	VAL
28	BF	108	PRO
30	BH	110	VAL
36	BO	35	ILE
37	BP	69	VAL
2	CC	76	ILE
2	CC	107	LYS
4	CE	24	VAL
20	CB	123	GLY
20	CB	200	PRO
25	DC	54	GLY

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DC	195	GLY
26	DD	19	GLY
26	DD	203	VAL
33	DL	23	ILE
51	D4	23	ILE
3	AD	37	PRO
7	AH	74	ILE
8	AI	110	VAL
11	AL	62	VAL
12	AM	15	VAL
28	BF	11	VAL
29	BG	8	VAL
29	BG	99	GLY
33	BL	16	GLY
37	BP	3	ILE
8	CI	68	GLY
10	CK	119	GLY
16	CQ	4	ILE
25	DC	16	VAL
27	DE	120	VAL
28	DF	108	PRO
33	DL	89	VAL
36	DO	31	THR
36	DO	58	ILE
38	DQ	6	GLY
42	DU	11	ILE
47	D0	53	VAL
49	D2	6	GLN
8	AI	39	GLY
27	BE	76	PRO
34	BM	89	VAL
47	B0	42	ILE
29	DG	117	PRO
30	DH	32	PRO
30	DH	107	GLY

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AC	170/190 (90%)	149 (88%)	21 (12%)	6	28
2	CC	170/190 (90%)	150 (88%)	20 (12%)	6	30
3	AD	172/173 (99%)	145 (84%)	27 (16%)	3	18
3	CD	172/173 (99%)	143 (83%)	29 (17%)	2	14
4	AE	113/126 (90%)	96 (85%)	17 (15%)	3	20
4	CE	113/126 (90%)	94 (83%)	19 (17%)	2	14
5	AF	87/116 (75%)	68 (78%)	19 (22%)	1	5
5	CF	87/116 (75%)	76 (87%)	11 (13%)	5	27
6	AG	123/147 (84%)	106 (86%)	17 (14%)	4	23
6	CG	125/147 (85%)	111 (89%)	14 (11%)	7	33
7	AH	104/105 (99%)	92 (88%)	12 (12%)	7	31
7	CH	104/105 (99%)	93 (89%)	11 (11%)	8	37
8	AI	105/107 (98%)	90 (86%)	15 (14%)	4	22
8	CI	105/107 (98%)	91 (87%)	14 (13%)	5	25
9	AJ	86/90 (96%)	70 (81%)	16 (19%)	2	9
9	CJ	86/90 (96%)	78 (91%)	8 (9%)	11	44
10	AK	90/99 (91%)	72 (80%)	18 (20%)	1	7
10	CK	90/99 (91%)	79 (88%)	11 (12%)	6	28
11	AL	103/104 (99%)	90 (87%)	13 (13%)	5	27
11	CL	103/104 (99%)	86 (84%)	17 (16%)	3	15
12	AM	92/96 (96%)	76 (83%)	16 (17%)	2	13
12	CM	91/96 (95%)	80 (88%)	11 (12%)	6	29
13	AN	79/84 (94%)	70 (89%)	9 (11%)	7	32
13	CN	79/84 (94%)	73 (92%)	6 (8%)	16	54
14	AO	76/77 (99%)	69 (91%)	7 (9%)	11	44
14	CO	76/77 (99%)	67 (88%)	9 (12%)	6	30
15	AP	65/65 (100%)	54 (83%)	11 (17%)	2	14
15	CP	65/65 (100%)	57 (88%)	8 (12%)	6	28
16	AQ	74/78 (95%)	64 (86%)	10 (14%)	5	25
16	CQ	75/78 (96%)	68 (91%)	7 (9%)	11	44
17	AR	48/65 (74%)	44 (92%)	4 (8%)	14	49

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	CR	48/65 (74%)	42 (88%)	6 (12%)	6	28
18	AS	70/79 (89%)	59 (84%)	11 (16%)	3	18
18	CS	71/79 (90%)	58 (82%)	13 (18%)	2	10
19	AT	65/66 (98%)	55 (85%)	10 (15%)	3	19
19	CT	65/66 (98%)	55 (85%)	10 (15%)	3	19
20	AB	180/199 (90%)	148 (82%)	32 (18%)	2	12
20	CB	180/199 (90%)	153 (85%)	27 (15%)	3	20
21	AU	44/61 (72%)	37 (84%)	7 (16%)	3	17
21	CU	44/61 (72%)	31 (70%)	13 (30%)	0	3
24	BV	78/78 (100%)	64 (82%)	14 (18%)	2	11
24	DV	78/78 (100%)	72 (92%)	6 (8%)	16	53
25	BC	213/218 (98%)	162 (76%)	51 (24%)	1	4
25	DC	213/218 (98%)	164 (77%)	49 (23%)	1	4
26	BD	164/164 (100%)	130 (79%)	34 (21%)	1	7
26	DD	164/164 (100%)	126 (77%)	38 (23%)	1	4
27	BE	165/165 (100%)	127 (77%)	38 (23%)	1	4
27	DE	165/165 (100%)	137 (83%)	28 (17%)	2	14
28	BF	149/150 (99%)	127 (85%)	22 (15%)	4	20
28	DF	149/150 (99%)	127 (85%)	22 (15%)	4	20
29	BG	137/138 (99%)	115 (84%)	22 (16%)	3	17
29	DG	137/138 (99%)	114 (83%)	23 (17%)	2	14
30	BH	114/114 (100%)	95 (83%)	19 (17%)	3	15
30	DH	114/114 (100%)	92 (81%)	22 (19%)	2	8
31	BJ	114/116 (98%)	93 (82%)	21 (18%)	2	10
31	DJ	114/116 (98%)	92 (81%)	22 (19%)	2	8
32	BK	102/104 (98%)	81 (79%)	21 (21%)	1	7
32	DK	102/104 (98%)	89 (87%)	13 (13%)	5	27
33	BL	103/103 (100%)	76 (74%)	27 (26%)	0	3
33	DL	103/103 (100%)	78 (76%)	25 (24%)	1	4
34	BM	109/109 (100%)	81 (74%)	28 (26%)	0	4
34	DM	109/109 (100%)	75 (69%)	34 (31%)	0	2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
35	BN	103/103 (100%)	84 (82%)	19 (18%)	2	10
35	DN	103/103 (100%)	87 (84%)	16 (16%)	3	18
36	BO	87/87 (100%)	68 (78%)	19 (22%)	1	5
36	DO	87/87 (100%)	73 (84%)	14 (16%)	3	17
37	BP	99/100 (99%)	78 (79%)	21 (21%)	1	6
37	DP	99/100 (99%)	72 (73%)	27 (27%)	0	3
38	BQ	89/90 (99%)	72 (81%)	17 (19%)	2	9
38	DQ	89/90 (99%)	70 (79%)	19 (21%)	1	6
39	BR	84/84 (100%)	72 (86%)	12 (14%)	4	22
39	DR	84/84 (100%)	67 (80%)	17 (20%)	1	7
40	BS	93/93 (100%)	83 (89%)	10 (11%)	8	36
40	DS	93/93 (100%)	80 (86%)	13 (14%)	4	23
41	BT	83/84 (99%)	65 (78%)	18 (22%)	1	6
41	DT	83/84 (99%)	70 (84%)	13 (16%)	3	18
42	BU	83/85 (98%)	66 (80%)	17 (20%)	1	7
42	DU	83/85 (98%)	65 (78%)	18 (22%)	1	6
43	BW	62/63 (98%)	50 (81%)	12 (19%)	2	8
43	DW	62/63 (98%)	51 (82%)	11 (18%)	2	12
44	BX	55/55 (100%)	38 (69%)	17 (31%)	0	2
44	DX	55/55 (100%)	45 (82%)	10 (18%)	2	11
45	BY	48/49 (98%)	37 (77%)	11 (23%)	1	4
45	DY	48/49 (98%)	36 (75%)	12 (25%)	1	4
46	BZ	62/62 (100%)	46 (74%)	16 (26%)	0	3
46	DZ	62/62 (100%)	54 (87%)	8 (13%)	5	26
47	B0	47/48 (98%)	36 (77%)	11 (23%)	1	4
47	D0	47/48 (98%)	38 (81%)	9 (19%)	2	9
48	B1	48/49 (98%)	35 (73%)	13 (27%)	0	3
48	D1	48/49 (98%)	38 (79%)	10 (21%)	1	6
49	B2	38/38 (100%)	29 (76%)	9 (24%)	1	4
49	D2	38/38 (100%)	29 (76%)	9 (24%)	1	4
50	B3	51/52 (98%)	41 (80%)	10 (20%)	1	8

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
50	D3	51/52 (98%)	39 (76%)	12 (24%)	1	4
51	B4	34/34 (100%)	25 (74%)	9 (26%)	0	3
51	D4	34/34 (100%)	19 (56%)	15 (44%)	0	0
52	BI	109/110 (99%)	107 (98%)	2 (2%)	66	88
52	DI	109/110 (99%)	105 (96%)	4 (4%)	41	76
All	All	9341/9744 (96%)	7726 (83%)	1615 (17%)	2	13

All (1615) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AC	31	ASN
2	AC	35	ASP
2	AC	40	GLN
2	AC	64	ARG
2	AC	82	ASP
2	AC	100	ILE
2	AC	102	ILE
2	AC	106	ARG
2	AC	113	LYS
2	AC	141	MET
2	AC	143	LEU
2	AC	146	LYS
2	AC	156	LEU
2	AC	166	TRP
2	AC	168	ARG
2	AC	174	LEU
2	AC	180	ASP
2	AC	184	ASN
2	AC	189	HIS
2	AC	190	THR
2	AC	192	TYR
3	AD	7	LYS
3	AD	8	LEU
3	AD	10	LEU
3	AD	21	LYS
3	AD	25	ARG
3	AD	35	GLN
3	AD	39	GLN
3	AD	43	ARG
3	AD	56	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AD	58	GLN
3	AD	62	ARG
3	AD	64	TYR
3	AD	69	ARG
3	AD	85	THR
3	AD	94	GLU
3	AD	147	LYS
3	AD	150	LYS
3	AD	153	ARG
3	AD	155	LYS
3	AD	158	LEU
3	AD	159	GLU
3	AD	160	LEU
3	AD	176	LYS
3	AD	177	MET
3	AD	183	ARG
3	AD	186	GLU
3	AD	194	ILE
4	AE	11	GLN
4	AE	23	THR
4	AE	25	LYS
4	AE	44	ARG
4	AE	68	ARG
4	AE	72	ASN
4	AE	81	GLN
4	AE	92	ARG
4	AE	102	THR
4	AE	110	MET
4	AE	122	VAL
4	AE	123	LEU
4	AE	125	LYS
4	AE	139	THR
4	AE	143	LEU
4	AE	151	MET
4	AE	158	LYS
5	AF	24	ARG
5	AF	37	HIS
5	AF	38	ARG
5	AF	39	LEU
5	AF	46	GLN
5	AF	53	LYS
5	AF	54	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	AF	55	HIS
5	AF	61	LEU
5	AF	65	GLU
5	AF	68	GLN
5	AF	69	GLU
5	AF	71	ILE
5	AF	75	GLU
5	AF	76	THR
5	AF	78	PHE
5	AF	86	ARG
5	AF	88	MET
5	AF	92	THR
6	AG	3	ARG
6	AG	10	LYS
6	AG	11	ILE
6	AG	14	ASP
6	AG	16	LYS
6	AG	21	LEU
6	AG	22	LEU
6	AG	42	VAL
6	AG	52	ARG
6	AG	55	LYS
6	AG	72	VAL
6	AG	84	TYR
6	AG	89	GLU
6	AG	94	ARG
6	AG	112	ASP
6	AG	137	ARG
6	AG	143	MET
7	AH	26	MET
7	AH	30	LYS
7	AH	37	ASN
7	AH	39	LEU
7	AH	48	PHE
7	AH	55	LYS
7	AH	58	LEU
7	AH	82	LEU
7	AH	93	LYS
7	AH	111	THR
7	AH	113	ARG
7	AH	120	LEU
8	AI	11	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	AI	26	LYS
8	AI	36	GLN
8	AI	38	PHE
8	AI	44	ARG
8	AI	56	MET
8	AI	58	GLU
8	AI	59	LYS
8	AI	84	ARG
8	AI	86	LEU
8	AI	87	MET
8	AI	106	ASP
8	AI	112	ARG
8	AI	121	ARG
8	AI	126	PHE
9	AJ	5	ARG
9	AJ	11	LYS
9	AJ	14	ASP
9	AJ	18	ILE
9	AJ	40	ILE
9	AJ	48	ARG
9	AJ	49	PHE
9	AJ	57	VAL
9	AJ	68	ARG
9	AJ	71	LEU
9	AJ	75	ASP
9	AJ	81	GLU
9	AJ	88	MET
9	AJ	89	ARG
9	AJ	92	LEU
9	AJ	102	LEU
10	AK	12	ARG
10	AK	35	ASP
10	AK	36	ARG
10	AK	37	GLN
10	AK	52	ARG
10	AK	56	LYS
10	AK	58	THR
10	AK	60	PHE
10	AK	73	VAL
10	AK	83	VAL
10	AK	84	MET
10	AK	92	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
10	AK	99	LEU
10	AK	107	THR
10	AK	115	ILE
10	AK	117	HIS
10	AK	121	ARG
10	AK	126	ARG
11	AL	24	GLU
11	AL	28	GLN
11	AL	30	ARG
11	AL	35	ARG
11	AL	38	THR
11	AL	48	LEU
11	AL	50	LYS
11	AL	58	ASN
11	AL	71	HIS
11	AL	74	GLN
11	AL	87	LYS
11	AL	98	ARG
11	AL	102	ASP
12	AM	18	LEU
12	AM	28	ARG
12	AM	41	ASP
12	AM	43	LYS
12	AM	44	ILE
12	AM	57	ASP
12	AM	62	PHE
12	AM	67	ASP
12	AM	68	LEU
12	AM	90	HIS
12	AM	91	ARG
12	AM	97	ARG
12	AM	100	ARG
12	AM	101	THR
12	AM	102	LYS
12	AM	109	LYS
13	AN	15	LEU
13	AN	27	LYS
13	AN	41	TRP
13	AN	50	LEU
13	AN	59	GLN
13	AN	60	ARG
13	AN	65	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
13	AN	73	LEU
13	AN	74	ARG
14	AO	7	THR
14	AO	17	ASP
14	AO	25	GLU
14	AO	53	ARG
14	AO	57	ARG
14	AO	66	LEU
14	AO	70	LYS
15	AP	4	ILE
15	AP	5	ARG
15	AP	9	HIS
15	AP	19	VAL
15	AP	26	ASN
15	AP	29	ASN
15	AP	31	ARG
15	AP	34	GLU
15	AP	46	LYS
15	AP	55	ASP
15	AP	63	GLN
16	AQ	3	LYS
16	AQ	4	ILE
16	AQ	10	ARG
16	AQ	20	ILE
16	AQ	25	GLU
16	AQ	39	ARG
16	AQ	47	ASP
16	AQ	60	ILE
16	AQ	76	ARG
16	AQ	80	LYS
17	AR	20	ILE
17	AR	23	LYS
17	AR	30	ASN
17	AR	52	ARG
18	AS	5	LYS
18	AS	14	LEU
18	AS	20	LYS
18	AS	28	LYS
18	AS	31	ARG
18	AS	35	ARG
18	AS	40	PHE
18	AS	47	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	AS	63	ASP
18	AS	72	GLU
18	AS	73	PHE
19	AT	4	LYS
19	AT	14	GLU
19	AT	26	MET
19	AT	29	THR
19	AT	43	LYS
19	AT	53	MET
19	AT	59	ARG
19	AT	67	HIS
19	AT	70	LYS
19	AT	85	LEU
20	AB	9	LEU
20	AB	22	TRP
20	AB	23	ASN
20	AB	31	PHE
20	AB	36	LYS
20	AB	38	HIS
20	AB	40	ILE
20	AB	46	VAL
20	AB	48	MET
20	AB	56	LEU
20	AB	57	ASN
20	AB	62	ARG
20	AB	67	LEU
20	AB	81	ASP
20	AB	90	PHE
20	AB	94	ARG
20	AB	95	TRP
20	AB	116	LEU
20	AB	121	GLN
20	AB	122	ASP
20	AB	125	PHE
20	AB	127	LYS
20	AB	128	LEU
20	AB	145	ASN
20	AB	176	ASN
20	AB	188	THR
20	AB	193	ASP
20	AB	196	ASP
20	AB	202	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	AB	206	ILE
20	AB	212	TYR
20	AB	222	GLU
21	AU	11	PHE
21	AU	12	ASP
21	AU	16	ARG
21	AU	32	ARG
21	AU	41	THR
21	AU	48	LYS
21	AU	53	LYS
24	BV	2	PHE
24	BV	3	THR
24	BV	9	ARG
24	BV	35	GLU
24	BV	40	ILE
24	BV	42	LEU
24	BV	46	LYS
24	BV	51	GLN
24	BV	56	PHE
24	BV	70	ILE
24	BV	73	LYS
24	BV	79	ARG
24	BV	82	TYR
24	BV	87	GLN
25	BC	5	CYS
25	BC	14	HIS
25	BC	17	LYS
25	BC	18	VAL
25	BC	27	LYS
25	BC	28	PRO
25	BC	29	PHE
25	BC	32	LEU
25	BC	33	LEU
25	BC	35	LYS
25	BC	36	ASN
25	BC	38	LYS
25	BC	45	ASN
25	BC	51	ARG
25	BC	57	HIS
25	BC	58	LYS
25	BC	62	ARG
25	BC	64	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	BC	78	GLU
25	BC	86	ARG
25	BC	94	LEU
25	BC	102	TYR
25	BC	110	LYS
25	BC	125	PRO
25	BC	127	ASN
25	BC	129	LEU
25	BC	131	MET
25	BC	144	GLU
25	BC	152	GLN
25	BC	155	ARG
25	BC	162	GLN
25	BC	171	VAL
25	BC	180	MET
25	BC	181	ARG
25	BC	186	ASP
25	BC	199	HIS
25	BC	201	LEU
25	BC	203	VAL
25	BC	206	LYS
25	BC	220	ARG
25	BC	222	THR
25	BC	224	MET
25	BC	225	ASN
25	BC	231	HIS
25	BC	235	GLU
25	BC	237	ARG
25	BC	246	PRO
25	BC	256	THR
25	BC	261	ARG
25	BC	263	ASP
25	BC	268	ARG
26	BD	18	ASP
26	BD	25	THR
26	BD	29	VAL
26	BD	30	GLU
26	BD	35	THR
26	BD	36	GLN
26	BD	38	LYS
26	BD	39	ASP
26	BD	48	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	BD	52	THR
26	BD	56	LYS
26	BD	59	ARG
26	BD	62	LYS
26	BD	67	HIS
26	BD	70	LYS
26	BD	96	ILE
26	BD	103	ASP
26	BD	105	LYS
26	BD	123	LYS
26	BD	127	PHE
26	BD	128	ARG
26	BD	131	ASP
26	BD	133	THR
26	BD	138	LEU
26	BD	140	HIS
26	BD	141	ARG
26	BD	148	GLN
26	BD	155	VAL
26	BD	157	LYS
26	BD	159	LYS
26	BD	160	LYS
26	BD	167	ASN
26	BD	177	VAL
26	BD	197	THR
27	BE	2	GLU
27	BE	4	VAL
27	BE	5	LEU
27	BE	10	SER
27	BE	18	THR
27	BE	22	ASP
27	BE	24	ASN
27	BE	41	GLN
27	BE	43	THR
27	BE	44	ARG
27	BE	46	GLN
27	BE	47	LYS
27	BE	49	ARG
27	BE	57	LYS
27	BE	58	LYS
27	BE	59	PRO
27	BE	67	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	BE	78	TRP
27	BE	85	PHE
27	BE	88	ARG
27	BE	91	ASP
27	BE	98	LYS
27	BE	118	LEU
27	BE	132	LYS
27	BE	134	LEU
27	BE	139	LYS
27	BE	143	LEU
27	BE	148	ILE
27	BE	162	ARG
27	BE	164	LEU
27	BE	169	VAL
27	BE	171	ASP
27	BE	184	ASP
27	BE	188	MET
27	BE	193	VAL
27	BE	196	VAL
27	BE	199	MET
27	BE	200	LEU
28	BF	5	ASP
28	BF	14	LYS
28	BF	16	MET
28	BF	21	TYR
28	BF	55	ASP
28	BF	59	ILE
28	BF	63	LYS
28	BF	76	PHE
28	BF	93	GLU
28	BF	101	ARG
28	BF	126	ASN
28	BF	132	ARG
28	BF	142	TYR
28	BF	143	ASP
28	BF	146	ASP
28	BF	147	ARG
28	BF	157	THR
28	BF	160	LYS
28	BF	166	ARG
28	BF	168	LEU
28	BF	174	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	BF	177	ARG
29	BG	2	ARG
29	BG	3	VAL
29	BG	17	LYS
29	BG	18	ILE
29	BG	28	LYS
29	BG	34	ARG
29	BG	46	ASP
29	BG	49	LEU
29	BG	50	THR
29	BG	57	TYR
29	BG	59	ASP
29	BG	61	TRP
29	BG	70	LEU
29	BG	80	GLU
29	BG	94	ARG
29	BG	121	THR
29	BG	128	THR
29	BG	133	LYS
29	BG	146	ASP
29	BG	150	TYR
29	BG	154	GLU
29	BG	176	LYS
30	BH	1	MET
30	BH	5	LEU
30	BH	7	ASP
30	BH	8	LYS
30	BH	22	LYS
30	BH	28	ASN
30	BH	30	LEU
30	BH	35	LYS
30	BH	42	LYS
30	BH	47	PHE
30	BH	55	GLU
30	BH	57	LYS
30	BH	66	ASN
30	BH	68	ARG
30	BH	73	ASN
30	BH	75	LEU
30	BH	89	LYS
30	BH	112	LYS
30	BH	132	PHE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	BJ	12	LYS
31	BJ	15	TRP
31	BJ	23	LYS
31	BJ	24	THR
31	BJ	25	LEU
31	BJ	28	LEU
31	BJ	34	ARG
31	BJ	35	ARG
31	BJ	37	ARG
31	BJ	39	LYS
31	BJ	49	ASP
31	BJ	58	ASN
31	BJ	75	TYR
31	BJ	90	GLU
31	BJ	96	ARG
31	BJ	98	GLU
31	BJ	114	LEU
31	BJ	119	PHE
31	BJ	122	LEU
31	BJ	131	ASN
31	BJ	136	GLN
32	BK	9	ASN
32	BK	17	ARG
32	BK	30	ARG
32	BK	31	ARG
32	BK	32	TYR
32	BK	47	ILE
32	BK	53	LYS
32	BK	54	LYS
32	BK	58	LEU
32	BK	62	VAL
32	BK	64	ARG
32	BK	71	ARG
32	BK	79	PHE
32	BK	87	LEU
32	BK	93	GLN
32	BK	98	ARG
32	BK	108	ARG
32	BK	109	SER
32	BK	113	MET
32	BK	116	ILE
32	BK	118	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	BL	2	ARG
33	BL	14	LYS
33	BL	18	ARG
33	BL	27	LEU
33	BL	29	LYS
33	BL	33	ARG
33	BL	41	ARG
33	BL	47	ARG
33	BL	51	GLU
33	BL	55	MET
33	BL	61	LEU
33	BL	62	PRO
33	BL	70	LYS
33	BL	78	ARG
33	BL	81	ASP
33	BL	82	LEU
33	BL	84	LYS
33	BL	85	VAL
33	BL	96	LYS
33	BL	103	ILE
33	BL	105	ILE
33	BL	111	ILE
33	BL	112	LEU
33	BL	118	THR
33	BL	126	ARG
33	BL	127	VAL
33	BL	132	ARG
34	BM	3	GLN
34	BM	9	PHE
34	BM	10	ARG
34	BM	11	LYS
34	BM	12	MET
34	BM	14	LYS
34	BM	17	ASN
34	BM	18	ARG
34	BM	22	GLN
34	BM	36	VAL
34	BM	38	ARG
34	BM	54	THR
34	BM	55	ARG
34	BM	63	ILE
34	BM	66	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	BM	71	LYS
34	BM	86	LYS
34	BM	93	VAL
34	BM	96	ILE
34	BM	100	LYS
34	BM	105	MET
34	BM	109	PRO
34	BM	110	GLU
34	BM	117	PHE
34	BM	118	LYS
34	BM	130	PHE
34	BM	133	LYS
34	BM	135	VAL
35	BN	1	MET
35	BN	9	GLN
35	BN	10	LEU
35	BN	13	ASN
35	BN	21	PHE
35	BN	33	ILE
35	BN	34	ILE
35	BN	35	LYS
35	BN	38	LEU
35	BN	45	ARG
35	BN	47	VAL
35	BN	57	THR
35	BN	75	ILE
35	BN	76	VAL
35	BN	94	TYR
35	BN	99	LYS
35	BN	102	PHE
35	BN	112	TYR
35	BN	120	GLU
36	BO	1	MET
36	BO	3	LYS
36	BO	7	ARG
36	BO	13	ARG
36	BO	15	ARG
36	BO	16	ARG
36	BO	25	ARG
36	BO	31	THR
36	BO	32	PRO
36	BO	35	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	BO	38	GLN
36	BO	40	ILE
36	BO	56	LYS
36	BO	62	LEU
36	BO	64	TYR
36	BO	69	ASP
36	BO	84	GLU
36	BO	85	LYS
36	BO	116	GLN
37	BP	2	ASN
37	BP	8	GLU
37	BP	15	ASP
37	BP	24	THR
37	BP	30	TRP
37	BP	42	PHE
37	BP	47	ILE
37	BP	49	ILE
37	BP	50	ARG
37	BP	52	ARG
37	BP	54	LEU
37	BP	55	HIS
37	BP	60	VAL
37	BP	73	PHE
37	BP	74	GLN
37	BP	87	ARG
37	BP	88	ARG
37	BP	96	LEU
37	BP	108	ARG
37	BP	113	LEU
37	BP	114	ASN
38	BQ	3	VAL
38	BQ	5	ARG
38	BQ	12	ARG
38	BQ	36	GLN
38	BQ	38	VAL
38	BQ	39	ILE
38	BQ	55	GLN
38	BQ	63	ARG
38	BQ	65	ASN
38	BQ	71	ASN
38	BQ	80	ASN
38	BQ	84	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BQ	92	LYS
38	BQ	94	LEU
38	BQ	101	ASP
38	BQ	102	LYS
38	BQ	108	LEU
39	BR	12	HIS
39	BR	13	ARG
39	BR	18	GLN
39	BR	20	VAL
39	BR	39	LEU
39	BR	40	MET
39	BR	62	GLU
39	BR	79	ARG
39	BR	83	TYR
39	BR	89	HIS
39	BR	91	GLN
39	BR	93	PHE
40	BS	6	LYS
40	BS	8	ARG
40	BS	13	SER
40	BS	28	LYS
40	BS	60	HIS
40	BS	67	ASP
40	BS	90	LYS
40	BS	94	ASP
40	BS	95	ARG
40	BS	110	ARG
41	BT	1	MET
41	BT	3	ARG
41	BT	4	GLU
41	BT	6	ARG
41	BT	8	LEU
41	BT	10	VAL
41	BT	15	HIS
41	BT	24	MET
41	BT	26	LYS
41	BT	30	ILE
41	BT	31	VAL
41	BT	50	LEU
41	BT	61	LEU
41	BT	68	LYS
41	BT	69	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
41	BT	79	ASP
41	BT	85	VAL
41	BT	94	ASP
42	BU	3	LYS
42	BU	13	LEU
42	BU	25	LYS
42	BU	43	LYS
42	BU	52	ASN
42	BU	61	GLU
42	BU	64	ILE
42	BU	68	ASN
42	BU	71	ILE
42	BU	72	PHE
42	BU	81	ARG
42	BU	85	ARG
42	BU	87	GLU
42	BU	90	LYS
42	BU	93	ARG
42	BU	95	PHE
42	BU	98	ASN
43	BW	2	HIS
43	BW	10	ARG
43	BW	18	LYS
43	BW	23	LYS
43	BW	40	ARG
43	BW	52	CYS
43	BW	54	ARG
43	BW	65	LYS
43	BW	69	GLU
43	BW	71	LYS
43	BW	75	ASN
43	BW	81	ILE
44	BX	1	MET
44	BX	2	LYS
44	BX	8	GLU
44	BX	12	GLU
44	BX	14	LEU
44	BX	15	ASN
44	BX	17	GLU
44	BX	18	LEU
44	BX	22	LEU
44	BX	24	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
44	BX	31	GLN
44	BX	38	GLN
44	BX	42	LEU
44	BX	43	LEU
44	BX	45	GLN
44	BX	50	VAL
44	BX	53	VAL
45	BY	6	ILE
45	BY	7	THR
45	BY	8	GLN
45	BY	9	THR
45	BY	10	ARG
45	BY	15	ARG
45	BY	16	LEU
45	BY	17	PRO
45	BY	31	ILE
45	BY	37	ARG
45	BY	39	ASP
46	BZ	6	HIS
46	BZ	8	LYS
46	BZ	11	GLU
46	BZ	13	THR
46	BZ	18	CYS
46	BZ	25	ARG
46	BZ	32	LEU
46	BZ	33	ASN
46	BZ	35	ASP
46	BZ	40	CYS
46	BZ	41	HIS
46	BZ	44	PHE
46	BZ	49	ARG
46	BZ	58	ASP
46	BZ	65	ASN
46	BZ	70	LYS
47	B0	3	GLN
47	B0	4	GLN
47	B0	5	ASN
47	B0	6	LYS
47	B0	8	THR
47	B0	16	ARG
47	B0	25	THR
47	B0	27	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
47	B0	29	VAL
47	B0	32	THR
47	B0	52	LYS
48	B1	6	GLU
48	B1	7	LYS
48	B1	9	LYS
48	B1	20	TYR
48	B1	24	LYS
48	B1	32	LYS
48	B1	33	LEU
48	B1	34	GLU
48	B1	44	GLN
48	B1	46	VAL
48	B1	49	LYS
48	B1	52	LYS
48	B1	53	ILE
49	B2	12	ARG
49	B2	18	PHE
49	B2	19	ARG
49	B2	21	ARG
49	B2	25	LYS
49	B2	28	ARG
49	B2	29	GLN
49	B2	33	ARG
49	B2	46	LYS
50	B3	4	LYS
50	B3	6	VAL
50	B3	12	ARG
50	B3	21	PHE
50	B3	25	HIS
50	B3	28	LEU
50	B3	29	ARG
50	B3	37	THR
50	B3	41	ARG
50	B3	44	ARG
51	B4	2	LYS
51	B4	12	ARG
51	B4	18	LYS
51	B4	19	ARG
51	B4	20	ASP
51	B4	32	LYS
51	B4	33	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
51	B4	35	GLN
51	B4	37	GLN
52	BI	63	ASP
52	BI	96	LYS
2	CC	2	GLN
2	CC	13	ILE
2	CC	19	SER
2	CC	25	THR
2	CC	28	PHE
2	CC	30	ASP
2	CC	40	GLN
2	CC	46	LEU
2	CC	87	ARG
2	CC	88	LYS
2	CC	96	VAL
2	CC	128	MET
2	CC	129	PHE
2	CC	134	LYS
2	CC	143	LEU
2	CC	164	THR
2	CC	165	GLU
2	CC	166	TRP
2	CC	168	ARG
2	CC	206	ILE
3	CD	2	ARG
3	CD	14	GLU
3	CD	25	ARG
3	CD	28	ASP
3	CD	30	LYS
3	CD	39	GLN
3	CD	46	ARG
3	CD	47	LEU
3	CD	49	ASP
3	CD	55	ARG
3	CD	58	GLN
3	CD	69	ARG
3	CD	71	PHE
3	CD	77	GLU
3	CD	84	ASN
3	CD	92	LEU
3	CD	93	LEU
3	CD	100	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	CD	106	PHE
3	CD	125	ASN
3	CD	127	ARG
3	CD	130	ASN
3	CD	146	GLU
3	CD	147	LYS
3	CD	154	VAL
3	CD	160	LEU
3	CD	170	LEU
3	CD	186	GLU
3	CD	199	ILE
4	CE	9	GLU
4	CE	11	GLN
4	CE	23	THR
4	CE	25	LYS
4	CE	30	PHE
4	CE	45	VAL
4	CE	55	VAL
4	CE	61	LYS
4	CE	72	ASN
4	CE	89	THR
4	CE	92	ARG
4	CE	95	MET
4	CE	104	ILE
4	CE	120	HIS
4	CE	133	ILE
4	CE	141	ASP
4	CE	144	GLU
4	CE	146	MET
4	CE	151	MET
5	CF	2	ARG
5	CF	3	HIS
5	CF	6	ILE
5	CF	13	ASP
5	CF	39	LEU
5	CF	54	LEU
5	CF	55	HIS
5	CF	59	TYR
5	CF	76	THR
5	CF	86	ARG
5	CF	91	ARG
6	CG	2	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
6	CG	8	GLN
6	CG	12	LEU
6	CG	46	LEU
6	CG	75	LYS
6	CG	78	ARG
6	CG	84	TYR
6	CG	89	GLU
6	CG	98	LEU
6	CG	108	ARG
6	CG	115	MET
6	CG	117	LEU
6	CG	128	GLU
6	CG	153	TYR
7	CH	8	ASP
7	CH	37	ASN
7	CH	55	LYS
7	CH	57	GLU
7	CH	68	LYS
7	CH	72	GLU
7	CH	82	LEU
7	CH	88	LYS
7	CH	107	LYS
7	CH	123	GLU
7	CH	124	ILE
8	CI	19	PHE
8	CI	26	LYS
8	CI	27	ILE
8	CI	31	GLN
8	CI	37	TYR
8	CI	45	MET
8	CI	60	LEU
8	CI	61	ASP
8	CI	62	LEU
8	CI	83	THR
8	CI	87	MET
8	CI	109	GLN
8	CI	122	ARG
8	CI	126	PHE
9	CJ	32	THR
9	CJ	37	ARG
9	CJ	47	GLU
9	CJ	71	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
9	CJ	77	VAL
9	CJ	78	GLU
9	CJ	92	LEU
9	CJ	99	GLN
10	CK	28	ASN
10	CK	31	VAL
10	CK	34	THR
10	CK	75	GLU
10	CK	76	TYR
10	CK	78	ILE
10	CK	84	MET
10	CK	94	SER
10	CK	97	ARG
10	CK	109	ILE
10	CK	118	ASN
11	CL	8	ARG
11	CL	14	LYS
11	CL	17	LYS
11	CL	26	CYS
11	CL	28	GLN
11	CL	34	THR
11	CL	40	THR
11	CL	49	ARG
11	CL	61	GLU
11	CL	69	GLU
11	CL	75	GLU
11	CL	88	ASP
11	CL	93	ARG
11	CL	107	LYS
11	CL	111	GLN
11	CL	120	ARG
11	CL	122	LYS
12	CM	2	ARG
12	CM	15	VAL
12	CM	40	GLU
12	CM	47	LEU
12	CM	49	GLU
12	CM	56	ARG
12	CM	67	ASP
12	CM	97	ARG
12	CM	102	LYS
12	CM	109	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
12	CM	112	ARG
13	CN	5	MET
13	CN	19	TYR
13	CN	72	PHE
13	CN	82	LYS
13	CN	89	ARG
13	CN	95	LEU
14	CO	4	THR
14	CO	39	GLN
14	CO	50	HIS
14	CO	56	LEU
14	CO	59	VAL
14	CO	63	ARG
14	CO	69	LEU
14	CO	78	THR
14	CO	83	ARG
15	CP	5	ARG
15	CP	14	ARG
15	CP	28	ARG
15	CP	32	PHE
15	CP	40	ASN
15	CP	50	THR
15	CP	57	ILE
15	CP	67	ILE
16	CQ	5	ARG
16	CQ	29	LYS
16	CQ	39	ARG
16	CQ	60	ILE
16	CQ	66	LEU
16	CQ	73	THR
16	CQ	80	LYS
17	CR	23	LYS
17	CR	25	ILE
17	CR	38	ILE
17	CR	42	ARG
17	CR	47	ARG
17	CR	51	GLN
18	CS	5	LYS
18	CS	12	LEU
18	CS	13	HIS
18	CS	20	LYS
18	CS	26	ASP

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
18	CS	27	LYS
18	CS	28	LYS
18	CS	36	ARG
18	CS	47	THR
18	CS	52	ASN
18	CS	63	ASP
18	CS	64	GLU
18	CS	73	PHE
19	CT	9	ARG
19	CT	29	THR
19	CT	35	TYR
19	CT	51	ASN
19	CT	53	MET
19	CT	63	LYS
19	CT	69	ASN
19	CT	70	LYS
19	CT	73	ARG
19	CT	77	ASN
20	CB	8	MET
20	CB	15	PHE
20	CB	22	TRP
20	CB	23	ASN
20	CB	35	ASN
20	CB	36	LYS
20	CB	37	VAL
20	CB	46	VAL
20	CB	53	LEU
20	CB	57	ASN
20	CB	62	ARG
20	CB	84	LEU
20	CB	94	ARG
20	CB	95	TRP
20	CB	116	LEU
20	CB	121	GLN
20	CB	127	LYS
20	CB	139	GLU
20	CB	143	LEU
20	CB	145	ASN
20	CB	176	ASN
20	CB	188	THR
20	CB	191	ASP
20	CB	202	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
20	CB	207	ARG
20	CB	213	LEU
20	CB	222	GLU
21	CU	7	GLU
21	CU	8	ASN
21	CU	17	ARG
21	CU	18	PHE
21	CU	20	ARG
21	CU	24	LYS
21	CU	33	ARG
21	CU	35	GLU
21	CU	36	PHE
21	CU	37	TYR
21	CU	38	GLU
21	CU	42	THR
21	CU	48	LYS
24	DV	18	ARG
24	DV	48	MET
24	DV	51	GLN
24	DV	69	GLU
24	DV	70	ILE
24	DV	86	LEU
25	DC	12	ARG
25	DC	28	PRO
25	DC	29	PHE
25	DC	32	LEU
25	DC	33	LEU
25	DC	34	GLU
25	DC	38	LYS
25	DC	42	ARG
25	DC	47	ARG
25	DC	49	THR
25	DC	51	ARG
25	DC	57	HIS
25	DC	58	LYS
25	DC	61	TYR
25	DC	62	ARG
25	DC	69	ASN
25	DC	70	LYS
25	DC	85	ASN
25	DC	102	TYR
25	DC	104	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	DC	107	LYS
25	DC	109	LEU
25	DC	110	LYS
25	DC	125	PRO
25	DC	127	ASN
25	DC	129	LEU
25	DC	133	ASN
25	DC	141	HIS
25	DC	145	MET
25	DC	152	GLN
25	DC	155	ARG
25	DC	164	VAL
25	DC	171	VAL
25	DC	172	THR
25	DC	180	MET
25	DC	194	VAL
25	DC	201	LEU
25	DC	203	VAL
25	DC	206	LYS
25	DC	211	ARG
25	DC	231	HIS
25	DC	235	GLU
25	DC	237	ARG
25	DC	246	PRO
25	DC	250	GLN
25	DC	251	THR
25	DC	254	LYS
25	DC	259	ASN
25	DC	265	PHE
26	DD	1	MET
26	DD	4	LEU
26	DD	9	VAL
26	DD	14	ILE
26	DD	15	PHE
26	DD	27	ILE
26	DD	33	ARG
26	DD	34	VAL
26	DD	36	GLN
26	DD	40	LEU
26	DD	45	TYR
26	DD	59	ARG
26	DD	60	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	DD	77	ARG
26	DD	79	LEU
26	DD	82	PHE
26	DD	92	VAL
26	DD	101	PHE
26	DD	104	VAL
26	DD	106	LYS
26	DD	114	LYS
26	DD	118	PHE
26	DD	121	THR
26	DD	124	ARG
26	DD	126	ASN
26	DD	127	PHE
26	DD	128	ARG
26	DD	133	THR
26	DD	138	LEU
26	DD	139	SER
26	DD	142	VAL
26	DD	151	THR
26	DD	152	PRO
26	DD	176	ASP
26	DD	185	ASN
26	DD	188	LEU
26	DD	202	ILE
26	DD	208	LYS
27	DE	1	MET
27	DE	19	PHE
27	DE	24	ASN
27	DE	43	THR
27	DE	49	ARG
27	DE	84	THR
27	DE	99	LYS
27	DE	100	MET
27	DE	106	LYS
27	DE	109	LEU
27	DE	115	GLN
27	DE	117	ARG
27	DE	132	LYS
27	DE	133	LEU
27	DE	134	LEU
27	DE	137	LYS
27	DE	138	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	DE	143	LEU
27	DE	147	LEU
27	DE	148	ILE
27	DE	157	LEU
27	DE	158	PHE
27	DE	164	LEU
27	DE	167	VAL
27	DE	173	THR
27	DE	184	ASP
27	DE	185	LYS
27	DE	188	MET
28	DF	16	MET
28	DF	19	PHE
28	DF	32	LYS
28	DF	45	ASP
28	DF	56	LEU
28	DF	59	ILE
28	DF	76	PHE
28	DF	86	CYS
28	DF	90	LEU
28	DF	93	GLU
28	DF	105	ILE
28	DF	107	VAL
28	DF	132	ARG
28	DF	133	GLU
28	DF	135	ILE
28	DF	141	ASP
28	DF	143	ASP
28	DF	149	ARG
28	DF	161	SER
28	DF	174	PHE
28	DF	176	PHE
28	DF	177	ARG
29	DG	2	ARG
29	DG	15	ASP
29	DG	16	VAL
29	DG	17	LYS
29	DG	29	ASN
29	DG	31	GLU
29	DG	35	THR
29	DG	43	LYS
29	DG	71	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
29	DG	72	ASN
29	DG	84	LYS
29	DG	85	LYS
29	DG	86	LEU
29	DG	94	ARG
29	DG	104	LEU
29	DG	113	ASP
29	DG	116	LEU
29	DG	121	THR
29	DG	151	ARG
29	DG	152	ARG
29	DG	154	GLU
29	DG	171	LYS
29	DG	174	LYS
30	DH	4	ILE
30	DH	7	ASP
30	DH	8	LYS
30	DH	11	ASN
30	DH	30	LEU
30	DH	38	PRO
30	DH	45	GLU
30	DH	50	ARG
30	DH	53	GLU
30	DH	57	LYS
30	DH	68	ARG
30	DH	70	GLU
30	DH	75	LEU
30	DH	96	THR
30	DH	97	ARG
30	DH	101	ASP
30	DH	112	LYS
30	DH	119	ASN
30	DH	124	THR
30	DH	129	GLU
30	DH	137	GLU
30	DH	141	LYS
31	DJ	1	MET
31	DJ	7	LYS
31	DJ	15	TRP
31	DJ	25	LEU
31	DJ	27	ARG
31	DJ	28	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	DJ	31	GLU
31	DJ	35	ARG
31	DJ	36	LEU
31	DJ	41	LYS
31	DJ	47	HIS
31	DJ	61	LYS
31	DJ	67	ASN
31	DJ	69	ARG
31	DJ	85	LYS
31	DJ	89	PHE
31	DJ	91	GLU
31	DJ	95	ARG
31	DJ	109	LEU
31	DJ	118	MET
31	DJ	121	LYS
31	DJ	140	LEU
32	DK	2	ILE
32	DK	8	LEU
32	DK	10	VAL
32	DK	30	ARG
32	DK	32	TYR
32	DK	37	ASP
32	DK	58	LEU
32	DK	65	THR
32	DK	79	PHE
32	DK	98	ARG
32	DK	104	THR
32	DK	105	ARG
32	DK	120	PRO
33	DL	4	ASN
33	DL	14	LYS
33	DL	19	LEU
33	DL	21	ARG
33	DL	25	SER
33	DL	38	GLN
33	DL	39	LYS
33	DL	46	VAL
33	DL	48	ARG
33	DL	54	GLN
33	DL	55	MET
33	DL	60	ARG
33	DL	69	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
33	DL	77	ILE
33	DL	92	LEU
33	DL	96	LYS
33	DL	104	GLN
33	DL	106	GLU
33	DL	107	PHE
33	DL	115	GLU
33	DL	119	PRO
33	DL	125	LEU
33	DL	128	THR
33	DL	135	ILE
33	DL	136	GLU
34	DM	1	MET
34	DM	5	LYS
34	DM	6	ARG
34	DM	9	PHE
34	DM	14	LYS
34	DM	16	ARG
34	DM	18	ARG
34	DM	22	GLN
34	DM	26	VAL
34	DM	28	PHE
34	DM	33	LEU
34	DM	38	ARG
34	DM	42	THR
34	DM	54	THR
34	DM	71	LYS
34	DM	72	PRO
34	DM	76	LYS
34	DM	80	VAL
34	DM	81	ARG
34	DM	84	LYS
34	DM	88	ASN
34	DM	90	GLU
34	DM	91	TYR
34	DM	96	ILE
34	DM	97	GLN
34	DM	100	LYS
34	DM	105	MET
34	DM	106	ASP
34	DM	111	GLU
34	DM	115	GLU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	DM	118	LYS
34	DM	123	LYS
34	DM	124	LEU
34	DM	127	LYS
35	DN	4	ARG
35	DN	5	LYS
35	DN	12	ARG
35	DN	18	GLN
35	DN	36	THR
35	DN	42	LYS
35	DN	49	GLU
35	DN	70	THR
35	DN	71	ARG
35	DN	79	LEU
35	DN	81	ASN
35	DN	87	PHE
35	DN	94	TYR
35	DN	96	ARG
35	DN	117	ASP
35	DN	121	LYS
36	DO	12	THR
36	DO	18	LEU
36	DO	21	LEU
36	DO	27	VAL
36	DO	30	ARG
36	DO	40	ILE
36	DO	64	TYR
36	DO	65	THR
36	DO	84	GLU
36	DO	87	ILE
36	DO	97	PHE
36	DO	98	GLN
36	DO	100	HIS
36	DO	116	GLN
37	DP	5	LYS
37	DP	8	GLU
37	DP	10	GLU
37	DP	18	SER
37	DP	19	PHE
37	DP	23	ASP
37	DP	24	THR
37	DP	27	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
37	DP	50	ARG
37	DP	52	ARG
37	DP	54	LEU
37	DP	60	VAL
37	DP	61	ARG
37	DP	71	ARG
37	DP	73	PHE
37	DP	76	HIS
37	DP	80	VAL
37	DP	81	ASP
37	DP	84	SER
37	DP	87	ARG
37	DP	100	ARG
37	DP	101	GLU
37	DP	108	ARG
37	DP	109	ILE
37	DP	111	GLU
37	DP	112	ARG
37	DP	113	LEU
38	DQ	4	LYS
38	DQ	13	HIS
38	DQ	17	LEU
38	DQ	35	PHE
38	DQ	36	GLN
38	DQ	39	ILE
38	DQ	40	LYS
38	DQ	52	ARG
38	DQ	53	LYS
38	DQ	58	GLN
38	DQ	63	ARG
38	DQ	70	GLN
38	DQ	78	PHE
38	DQ	84	LYS
38	DQ	90	ASP
38	DQ	91	ARG
38	DQ	93	ILE
38	DQ	100	PHE
38	DQ	103	VAL
39	DR	4	VAL
39	DR	6	GLN
39	DR	7	SER
39	DR	14	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	DR	18	GLN
39	DR	22	LEU
39	DR	23	GLU
39	DR	26	ASP
39	DR	32	THR
39	DR	43	ASN
39	DR	62	GLU
39	DR	75	VAL
39	DR	84	ARG
39	DR	85	LYS
39	DR	91	GLN
39	DR	99	THR
39	DR	102	SER
40	DS	7	HIS
40	DS	11	ARG
40	DS	23	LEU
40	DS	24	ILE
40	DS	25	ARG
40	DS	27	LYS
40	DS	42	LYS
40	DS	46	LEU
40	DS	73	LYS
40	DS	82	MET
40	DS	83	LYS
40	DS	85	ILE
40	DS	107	VAL
41	DT	5	GLU
41	DT	6	ARG
41	DT	11	LEU
41	DT	18	GLU
41	DT	22	THR
41	DT	24	MET
41	DT	33	LYS
41	DT	51	PHE
41	DT	64	LYS
41	DT	66	LYS
41	DT	73	ARG
41	DT	76	ARG
41	DT	88	LYS
42	DU	4	ILE
42	DU	8	ASP
42	DU	13	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
42	DU	27	VAL
42	DU	28	LEU
42	DU	40	LEU
42	DU	52	ASN
42	DU	57	ILE
42	DU	60	LYS
42	DU	65	GLN
42	DU	71	ILE
42	DU	73	ASN
42	DU	85	ARG
42	DU	88	ASP
42	DU	90	LYS
42	DU	92	VAL
42	DU	94	PHE
42	DU	96	LYS
43	DW	2	HIS
43	DW	3	LYS
43	DW	10	ARG
43	DW	13	ARG
43	DW	18	LYS
43	DW	19	ARG
43	DW	20	LEU
43	DW	25	PHE
43	DW	37	VAL
43	DW	40	ARG
43	DW	75	ASN
44	DX	8	GLU
44	DX	17	GLU
44	DX	18	LEU
44	DX	25	GLN
44	DX	28	LEU
44	DX	30	MET
44	DX	31	GLN
44	DX	36	GLN
44	DX	39	GLN
44	DX	47	ARG
45	DY	5	LYS
45	DY	10	ARG
45	DY	13	ILE
45	DY	23	LEU
45	DY	26	LEU
45	DY	35	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
45	DY	37	ARG
45	DY	40	THR
45	DY	43	ILE
45	DY	44	ARG
45	DY	53	MET
45	DY	57	GLU
46	DZ	10	GLU
46	DZ	20	ASN
46	DZ	24	ILE
46	DZ	28	VAL
46	DZ	31	ASP
46	DZ	34	LEU
46	DZ	50	ASP
46	DZ	64	PHE
47	D0	2	VAL
47	D0	5	ASN
47	D0	12	ARG
47	D0	15	ARG
47	D0	19	ASP
47	D0	21	LEU
47	D0	22	THR
47	D0	51	ARG
47	D0	53	VAL
48	D1	8	ILE
48	D1	18	HIS
48	D1	19	PHE
48	D1	22	THR
48	D1	24	LYS
48	D1	26	LYS
48	D1	27	ARG
48	D1	35	LEU
48	D1	44	GLN
48	D1	49	LYS
49	D2	10	LEU
49	D2	18	PHE
49	D2	19	ARG
49	D2	25	LYS
49	D2	28	ARG
49	D2	34	ARG
49	D2	39	ARG
49	D2	44	VAL
49	D2	46	LYS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
50	D3	6	VAL
50	D3	7	ARG
50	D3	24	LYS
50	D3	29	ARG
50	D3	32	LEU
50	D3	34	LYS
50	D3	35	LYS
50	D3	51	LYS
50	D3	53	ASP
50	D3	54	LEU
50	D3	61	LEU
50	D3	63	TYR
51	D4	1	MET
51	D4	2	LYS
51	D4	9	LYS
51	D4	17	VAL
51	D4	18	LYS
51	D4	19	ARG
51	D4	20	ASP
51	D4	23	ILE
51	D4	24	ARG
51	D4	26	ILE
51	D4	30	GLU
51	D4	31	PRO
51	D4	32	LYS
51	D4	35	GLN
51	D4	36	ARG
52	DI	2	LYS
52	DI	54	ILE
52	DI	99	LYS
52	DI	121	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (329) such sidechains are listed below:

Mol	Chain	Res	Type
2	AC	2	GLN
2	AC	5	HIS
2	AC	40	GLN
2	AC	122	GLN
2	AC	139	ASN
2	AC	184	ASN
3	AD	73	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	AD	84	ASN
3	AD	88	ASN
3	AD	135	GLN
3	AD	195	ASN
4	AE	69	ASN
4	AE	72	ASN
4	AE	96	GLN
4	AE	120	HIS
4	AE	121	ASN
4	AE	131	ASN
5	AF	14	GLN
5	AF	17	GLN
5	AF	46	GLN
5	AF	58	HIS
6	AG	67	ASN
6	AG	85	GLN
6	AG	121	ASN
6	AG	147	ASN
7	AH	3	GLN
8	AI	4	GLN
8	AI	24	ASN
8	AI	30	ASN
8	AI	31	GLN
8	AI	36	GLN
8	AI	49	GLN
8	AI	109	GLN
9	AJ	15	HIS
9	AJ	20	GLN
9	AJ	99	GLN
10	AK	37	GLN
10	AK	118	ASN
11	AL	28	GLN
11	AL	58	ASN
11	AL	72	ASN
13	AN	59	GLN
13	AN	61	ASN
13	AN	65	GLN
14	AO	27	GLN
14	AO	34	GLN
14	AO	36	ASN
14	AO	39	GLN
15	AP	9	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	AP	18	GLN
15	AP	29	ASN
15	AP	63	GLN
17	AR	53	GLN
18	AS	55	GLN
19	AT	12	GLN
19	AT	20	ASN
19	AT	54	GLN
19	AT	60	GLN
20	AB	17	HIS
20	AB	23	ASN
20	AB	35	ASN
20	AB	41	ASN
20	AB	108	GLN
20	AB	119	GLN
20	AB	121	GLN
20	AB	145	ASN
20	AB	167	HIS
20	AB	202	ASN
24	BV	49	ASN
24	BV	51	GLN
24	BV	80	HIS
24	BV	88	HIS
25	BC	14	HIS
25	BC	36	ASN
25	BC	52	HIS
25	BC	127	ASN
25	BC	133	ASN
25	BC	162	GLN
25	BC	225	ASN
25	BC	238	ASN
25	BC	250	GLN
26	BD	32	ASN
26	BD	134	HIS
26	BD	148	GLN
26	BD	150	GLN
26	BD	164	GLN
26	BD	167	ASN
26	BD	173	GLN
26	BD	185	ASN
27	BE	156	ASN
27	BE	195	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	BF	26	GLN
28	BF	36	ASN
28	BF	126	ASN
29	BG	19	ASN
29	BG	21	GLN
29	BG	29	ASN
29	BG	37	ASN
29	BG	63	GLN
29	BG	138	GLN
30	BH	2	GLN
30	BH	11	ASN
30	BH	43	ASN
30	BH	73	ASN
31	BJ	80	HIS
31	BJ	131	ASN
31	BJ	135	GLN
31	BJ	136	GLN
32	BK	3	GLN
32	BK	5	GLN
33	BL	38	GLN
33	BL	99	ASN
34	BM	17	ASN
34	BM	45	GLN
34	BM	97	GLN
35	BN	9	GLN
35	BN	73	ASN
35	BN	81	ASN
35	BN	107	ASN
36	BO	19	GLN
36	BO	38	GLN
36	BO	67	ASN
36	BO	98	GLN
36	BO	104	GLN
37	BP	2	ASN
37	BP	6	GLN
37	BP	11	GLN
37	BP	40	GLN
37	BP	114	ASN
38	BQ	36	GLN
38	BQ	43	GLN
38	BQ	51	GLN
38	BQ	55	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
38	BQ	58	GLN
38	BQ	71	ASN
38	BQ	80	ASN
39	BR	11	GLN
40	BS	7	HIS
40	BS	9	HIS
40	BS	57	ASN
40	BS	61	ASN
41	BT	28	ASN
41	BT	48	GLN
41	BT	91	GLN
42	BU	39	ASN
42	BU	65	GLN
42	BU	68	ASN
43	BW	49	ASN
43	BW	56	HIS
44	BX	38	GLN
44	BX	41	HIS
44	BX	45	GLN
45	BY	8	GLN
45	BY	19	HIS
46	BZ	41	HIS
46	BZ	65	ASN
47	B0	3	GLN
47	B0	4	GLN
47	B0	5	ASN
48	B1	25	ASN
48	B1	45	HIS
50	B3	23	HIS
51	B4	13	ASN
51	B4	35	GLN
52	BI	11	GLN
52	BI	29	GLN
52	BI	93	ASN
2	CC	2	GLN
2	CC	31	ASN
2	CC	68	HIS
2	CC	184	ASN
2	CC	189	HIS
3	CD	39	GLN
3	CD	53	GLN
3	CD	58	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	CD	99	ASN
3	CD	115	GLN
3	CD	119	HIS
3	CD	130	ASN
3	CD	151	GLN
3	CD	163	GLN
3	CD	195	ASN
4	CE	42	ASN
4	CE	72	ASN
4	CE	131	ASN
4	CE	145	ASN
5	CF	17	GLN
5	CF	46	GLN
5	CF	63	ASN
6	CG	8	GLN
6	CG	27	ASN
6	CG	67	ASN
6	CG	121	ASN
7	CH	3	GLN
7	CH	37	ASN
7	CH	75	GLN
7	CH	117	GLN
8	CI	74	GLN
8	CI	80	HIS
8	CI	109	GLN
8	CI	125	GLN
9	CJ	99	GLN
10	CK	28	ASN
10	CK	37	GLN
10	CK	63	GLN
10	CK	108	ASN
10	CK	118	ASN
11	CL	28	GLN
11	CL	45	ASN
11	CL	58	ASN
11	CL	71	HIS
12	CM	7	ASN
13	CN	34	ASN
13	CN	59	GLN
13	CN	61	ASN
14	CO	36	ASN
15	CP	26	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
15	CP	40	ASN
15	CP	63	GLN
16	CQ	8	GLN
17	CR	51	GLN
17	CR	53	GLN
18	CS	42	ASN
18	CS	52	ASN
18	CS	55	GLN
19	CT	2	ASN
19	CT	69	ASN
19	CT	83	ASN
20	CB	23	ASN
20	CB	50	ASN
20	CB	57	ASN
20	CB	108	GLN
20	CB	119	GLN
20	CB	121	GLN
20	CB	145	ASN
20	CB	202	ASN
24	DV	51	GLN
24	DV	78	GLN
24	DV	87	GLN
25	DC	45	ASN
25	DC	59	GLN
25	DC	116	GLN
25	DC	127	ASN
25	DC	133	ASN
25	DC	141	HIS
25	DC	162	GLN
25	DC	196	ASN
25	DC	199	HIS
25	DC	225	ASN
25	DC	238	ASN
26	DD	32	ASN
26	DD	36	GLN
26	DD	94	GLN
26	DD	164	GLN
26	DD	173	GLN
27	DE	24	ASN
27	DE	30	GLN
27	DE	94	GLN
27	DE	115	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
28	DF	36	ASN
28	DF	62	GLN
28	DF	80	GLN
28	DF	134	GLN
29	DG	29	ASN
29	DG	37	ASN
29	DG	87	GLN
29	DG	100	ASN
29	DG	138	GLN
30	DH	20	ASN
30	DH	43	ASN
30	DH	133	GLN
31	DJ	40	HIS
31	DJ	86	GLN
31	DJ	135	GLN
32	DK	3	GLN
33	DL	38	GLN
33	DL	104	GLN
34	DM	3	GLN
34	DM	17	ASN
34	DM	45	GLN
34	DM	88	ASN
34	DM	97	GLN
35	DN	3	HIS
35	DN	9	GLN
35	DN	11	ASN
35	DN	16	HIS
35	DN	18	GLN
35	DN	73	ASN
35	DN	107	ASN
36	DO	19	GLN
36	DO	67	ASN
36	DO	104	GLN
37	DP	9	GLN
37	DP	11	GLN
37	DP	55	HIS
37	DP	74	GLN
38	DQ	43	GLN
38	DQ	51	GLN
38	DQ	58	GLN
38	DQ	71	ASN
38	DQ	80	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
39	DR	6	GLN
39	DR	43	ASN
39	DR	86	GLN
40	DS	15	GLN
40	DS	31	GLN
40	DS	40	ASN
40	DS	57	ASN
41	DT	48	GLN
42	DU	53	GLN
42	DU	65	GLN
42	DU	68	ASN
43	DW	2	HIS
43	DW	39	GLN
43	DW	45	HIS
43	DW	56	HIS
44	DX	31	GLN
44	DX	45	GLN
44	DX	58	ASN
45	DY	48	ASN
46	DZ	6	HIS
46	DZ	65	ASN
47	D0	4	GLN
48	D1	44	GLN
48	D1	45	HIS
49	D2	29	GLN
52	DI	5	GLN
52	DI	33	ASN
52	DI	93	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1529/1542 (99%)	255 (16%)	24 (1%)
1	CA	1529/1542 (99%)	232 (15%)	24 (1%)
22	BA	116/120 (96%)	23 (19%)	0
22	DA	116/120 (96%)	22 (18%)	0
23	BB	2837/2904 (97%)	424 (14%)	13 (0%)
23	DB	2837/2904 (97%)	438 (15%)	18 (0%)
All	All	8964/9132 (98%)	1394 (15%)	79 (0%)

All (1394) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	A
1	AA	9	G
1	AA	14	U
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	52	C
1	AA	55	A
1	AA	61	G
1	AA	66	A
1	AA	71	A
1	AA	72	A
1	AA	75	G
1	AA	78	A
1	AA	83	C
1	AA	85	U
1	AA	86	G
1	AA	87	C
1	AA	88	U
1	AA	89	U
1	AA	95	C
1	AA	108	G
1	AA	121	U
1	AA	122	G
1	AA	131	A
1	AA	151	A
1	AA	182	A
1	AA	197	A
1	AA	209	U
1	AA	210	C
1	AA	226	G
1	AA	239	U
1	AA	240	G
1	AA	243	A
1	AA	244	U
1	AA	245	U
1	AA	247	G
1	AA	250	A
1	AA	251	G
1	AA	257	G
1	AA	258	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	266	G
1	AA	267	C
1	AA	280	C
1	AA	289	G
1	AA	316	C
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	345	C
1	AA	351	G
1	AA	352	C
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	373	A
1	AA	381	C
1	AA	382	A
1	AA	397	A
1	AA	398	U
1	AA	406	G
1	AA	408	A
1	AA	409	U
1	AA	411	A
1	AA	412	A
1	AA	414	A
1	AA	415	A
1	AA	421	U
1	AA	422	C
1	AA	424	G
1	AA	429	U
1	AA	430	A
1	AA	435	A
1	AA	438	U
1	AA	461	A
1	AA	462	G
1	AA	463	U
1	AA	464	U
1	AA	465	A
1	AA	466	A
1	AA	467	U
1	AA	468	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	469	C
1	AA	479	U
1	AA	481	G
1	AA	484	G
1	AA	485	U
1	AA	493	A
1	AA	518	C
1	AA	522	C
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	547	A
1	AA	559	A
1	AA	562	U
1	AA	564	C
1	AA	572	A
1	AA	573	A
1	AA	576	C
1	AA	577	G
1	AA	639	G
1	AA	650	G
1	AA	653	U
1	AA	665	A
1	AA	687	A
1	AA	700	G
1	AA	721	G
1	AA	724	G
1	AA	731	G
1	AA	733	G
1	AA	747	A
1	AA	748	G
1	AA	755	G
1	AA	777	A
1	AA	781	A
1	AA	782	A
1	AA	793	U
1	AA	794	A
1	AA	812	G
1	AA	815	A
1	AA	817	C
1	AA	818	G
1	AA	819	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	828	U
1	AA	829	G
1	AA	841	C
1	AA	842	U
1	AA	843	U
1	AA	844	G
1	AA	845	A
1	AA	846	G
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	931	C
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	976	G
1	AA	977	A
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1002	G
1	AA	1004	A
1	AA	1009	U
1	AA	1022	A
1	AA	1026	G
1	AA	1030	U
1	AA	1031	C
1	AA	1034	G
1	AA	1035	A
1	AA	1045	C
1	AA	1049	U
1	AA	1050	G
1	AA	1051	C
1	AA	1054	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1065	U
1	AA	1066	C
1	AA	1070	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1108	G
1	AA	1111	A
1	AA	1112	C
1	AA	1126	U
1	AA	1130	A
1	AA	1136	C
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1159	U
1	AA	1168	U
1	AA	1179	A
1	AA	1181	G
1	AA	1183	U
1	AA	1196	A
1	AA	1197	A
1	AA	1201	A
1	AA	1202	U
1	AA	1209	C
1	AA	1212	U
1	AA	1213	A
1	AA	1214	C
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1228	C
1	AA	1240	U
1	AA	1241	G
1	AA	1253	G
1	AA	1256	A
1	AA	1258	G
1	AA	1261	A
1	AA	1278	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1279	G
1	AA	1280	A
1	AA	1281	C
1	AA	1285	A
1	AA	1286	U
1	AA	1298	U
1	AA	1300	G
1	AA	1301	U
1	AA	1305	G
1	AA	1316	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1336	C
1	AA	1346	A
1	AA	1347	G
1	AA	1353	G
1	AA	1362	A
1	AA	1363	A
1	AA	1364	U
1	AA	1378	C
1	AA	1379	G
1	AA	1380	U
1	AA	1381	U
1	AA	1398	A
1	AA	1404	C
1	AA	1409	C
1	AA	1419	G
1	AA	1432	G
1	AA	1446	A
1	AA	1452	C
1	AA	1493	A
1	AA	1499	A
1	AA	1503	A
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	C
1	AA	1529	G
1	AA	1530	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	1533	C
1	AA	1534	A
22	BA	11	C
22	BA	12	C
22	BA	13	G
22	BA	14	U
22	BA	15	A
22	BA	16	G
22	BA	25	U
22	BA	26	C
22	BA	28	C
22	BA	29	A
22	BA	30	C
22	BA	35	C
22	BA	42	C
22	BA	44	G
22	BA	45	A
22	BA	56	G
22	BA	66	A
22	BA	67	G
22	BA	84	G
22	BA	90	C
22	BA	99	A
22	BA	108	A
22	BA	109	A
23	BB	2	G
23	BB	4	U
23	BB	13	A
23	BB	14	A
23	BB	34	U
23	BB	35	G
23	BB	46	G
23	BB	49	A
23	BB	63	A
23	BB	64	A
23	BB	71	A
23	BB	74	A
23	BB	75	G
23	BB	84	A
23	BB	85	G
23	BB	91	A
23	BB	92	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	96	C
23	BB	100	U
23	BB	101	A
23	BB	102	U
23	BB	103	A
23	BB	104	A
23	BB	118	A
23	BB	119	A
23	BB	120	U
23	BB	125	A
23	BB	126	A
23	BB	140	C
23	BB	142	A
23	BB	144	A
23	BB	160	A
23	BB	162	U
23	BB	163	C
23	BB	181	A
23	BB	186	G
23	BB	196	A
23	BB	199	A
23	BB	209	C
23	BB	216	A
23	BB	221	A
23	BB	222	A
23	BB	230	G
23	BB	241	A
23	BB	248	G
23	BB	252	G
23	BB	255	A
23	BB	265	A
23	BB	266	G
23	BB	271	G
23	BB	277	G
23	BB	278	A
23	BB	279	A
23	BB	281	C
23	BB	311	A
23	BB	323	C
23	BB	329	G
23	BB	330	A
23	BB	353	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	355	U
23	BB	362	A
23	BB	371	A
23	BB	372	G
23	BB	386	G
23	BB	387	U
23	BB	395	U
23	BB	396	G
23	BB	397	U
23	BB	411	G
23	BB	412	A
23	BB	423	A
23	BB	424	G
23	BB	435	C
23	BB	444	C
23	BB	455	C
23	BB	457	A
23	BB	479	A
23	BB	480	A
23	BB	481	G
23	BB	490	C
23	BB	491	G
23	BB	498	G
23	BB	504	A
23	BB	505	A
23	BB	508	A
23	BB	509	C
23	BB	512	G
23	BB	518	G
23	BB	527	C
23	BB	531	C
23	BB	532	A
23	BB	533	G
23	BB	544	C
23	BB	545	U
23	BB	546	U
23	BB	547	A
23	BB	555	G
23	BB	563	A
23	BB	572	A
23	BB	573	U
23	BB	575	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	588	U
23	BB	603	A
23	BB	613	A
23	BB	614	A
23	BB	615	U
23	BB	616	A
23	BB	627	A
23	BB	637	A
23	BB	645	C
23	BB	646	U
23	BB	654	A
23	BB	655	A
23	BB	671	C
23	BB	686	U
23	BB	717	C
23	BB	719	C
23	BB	722	A
23	BB	730	A
23	BB	747	U
23	BB	757	G
23	BB	765	C
23	BB	775	G
23	BB	782	A
23	BB	784	G
23	BB	785	G
23	BB	805	G
23	BB	812	C
23	BB	819	A
23	BB	827	U
23	BB	828	U
23	BB	846	U
23	BB	847	U
23	BB	859	G
23	BB	872	U
23	BB	876	C
23	BB	877	A
23	BB	878	A
23	BB	899	A
23	BB	910	A
23	BB	912	C
23	BB	932	U
23	BB	933	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	934	U
23	BB	941	A
23	BB	946	C
23	BB	955	U
23	BB	961	C
23	BB	973	A
23	BB	974	G
23	BB	983	A
23	BB	985	C
23	BB	991	C
23	BB	993	G
23	BB	995	C
23	BB	996	A
23	BB	1005	C
23	BB	1012	U
23	BB	1013	C
23	BB	1022	G
23	BB	1025	G
23	BB	1026	G
23	BB	1033	U
23	BB	1046	A
23	BB	1047	G
23	BB	1062	G
23	BB	1070	A
23	BB	1088	A
23	BB	1090	A
23	BB	1112	G
23	BB	1122	G
23	BB	1126	A
23	BB	1132	U
23	BB	1133	A
23	BB	1134	A
23	BB	1135	C
23	BB	1136	G
23	BB	1139	G
23	BB	1142	A
23	BB	1157	G
23	BB	1173	U
23	BB	1174	U
23	BB	1175	A
23	BB	1195	G
23	BB	1205	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	1206	G
23	BB	1211	C
23	BB	1212	G
23	BB	1218	G
23	BB	1237	A
23	BB	1247	A
23	BB	1248	G
23	BB	1251	C
23	BB	1253	A
23	BB	1256	G
23	BB	1266	G
23	BB	1271	G
23	BB	1272	A
23	BB	1275	A
23	BB	1276	A
23	BB	1301	A
23	BB	1302	A
23	BB	1312	U
23	BB	1325	U
23	BB	1337	G
23	BB	1341	G
23	BB	1345	C
23	BB	1352	U
23	BB	1365	A
23	BB	1379	U
23	BB	1383	A
23	BB	1384	A
23	BB	1396	U
23	BB	1397	U
23	BB	1416	G
23	BB	1417	C
23	BB	1419	A
23	BB	1420	A
23	BB	1427	A
23	BB	1428	C
23	BB	1434	A
23	BB	1451	C
23	BB	1453	A
23	BB	1454	C
23	BB	1459	G
23	BB	1460	U
23	BB	1461	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	1476	U
23	BB	1477	A
23	BB	1478	G
23	BB	1482	G
23	BB	1490	A
23	BB	1493	C
23	BB	1494	A
23	BB	1504	A
23	BB	1508	A
23	BB	1509	A
23	BB	1510	G
23	BB	1524	G
23	BB	1532	A
23	BB	1535	A
23	BB	1537	G
23	BB	1538	G
23	BB	1540	G
23	BB	1552	A
23	BB	1558	C
23	BB	1559	U
23	BB	1567	G
23	BB	1569	A
23	BB	1578	U
23	BB	1585	C
23	BB	1608	A
23	BB	1610	A
23	BB	1634	A
23	BB	1635	A
23	BB	1640	A
23	BB	1647	U
23	BB	1648	U
23	BB	1649	G
23	BB	1674	G
23	BB	1700	A
23	BB	1701	A
23	BB	1706	C
23	BB	1707	G
23	BB	1713	A
23	BB	1715	G
23	BB	1716	U
23	BB	1722	A
23	BB	1723	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	1729	U
23	BB	1730	C
23	BB	1731	G
23	BB	1733	G
23	BB	1738	G
23	BB	1758	U
23	BB	1764	C
23	BB	1773	A
23	BB	1781	U
23	BB	1800	C
23	BB	1816	C
23	BB	1829	A
23	BB	1833	C
23	BB	1870	C
23	BB	1873	G
23	BB	1876	A
23	BB	1884	G
23	BB	1906	G
23	BB	1914	C
23	BB	1927	A
23	BB	1929	G
23	BB	1930	G
23	BB	1937	A
23	BB	1938	A
23	BB	1939	U
23	BB	1940	U
23	BB	1955	U
23	BB	1966	A
23	BB	1967	C
23	BB	1970	A
23	BB	1971	U
23	BB	1972	G
23	BB	1991	U
23	BB	1993	U
23	BB	1997	C
23	BB	2022	U
23	BB	2023	C
23	BB	2031	A
23	BB	2033	A
23	BB	2043	C
23	BB	2055	C
23	BB	2056	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	2060	A
23	BB	2061	G
23	BB	2062	A
23	BB	2069	G
23	BB	2072	C
23	BB	2102	G
23	BB	2104	C
23	BB	2105	U
23	BB	2137	U
23	BB	2140	G
23	BB	2144	G
23	BB	2145	C
23	BB	2147	A
23	BB	2149	U
23	BB	2154	A
23	BB	2181	U
23	BB	2183	A
23	BB	2187	U
23	BB	2192	U
23	BB	2198	A
23	BB	2204	G
23	BB	2212	A
23	BB	2225	A
23	BB	2238	G
23	BB	2239	G
23	BB	2259	U
23	BB	2266	A
23	BB	2273	A
23	BB	2276	G
23	BB	2278	A
23	BB	2283	C
23	BB	2286	G
23	BB	2287	A
23	BB	2297	A
23	BB	2304	G
23	BB	2305	U
23	BB	2307	G
23	BB	2318	G
23	BB	2319	G
23	BB	2320	U
23	BB	2321	U
23	BB	2322	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	2325	G
23	BB	2333	A
23	BB	2334	U
23	BB	2336	A
23	BB	2337	G
23	BB	2347	C
23	BB	2383	G
23	BB	2385	C
23	BB	2402	U
23	BB	2403	C
23	BB	2406	A
23	BB	2423	U
23	BB	2426	A
23	BB	2429	G
23	BB	2430	A
23	BB	2434	A
23	BB	2441	U
23	BB	2448	A
23	BB	2472	G
23	BB	2476	A
23	BB	2491	U
23	BB	2492	U
23	BB	2502	G
23	BB	2505	G
23	BB	2506	U
23	BB	2518	A
23	BB	2529	G
23	BB	2535	G
23	BB	2554	U
23	BB	2566	A
23	BB	2567	G
23	BB	2573	C
23	BB	2585	U
23	BB	2586	U
23	BB	2597	G
23	BB	2602	A
23	BB	2609	U
23	BB	2613	U
23	BB	2621	G
23	BB	2629	U
23	BB	2654	A
23	BB	2682	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	2689	U
23	BB	2690	U
23	BB	2714	G
23	BB	2725	A
23	BB	2726	A
23	BB	2744	G
23	BB	2748	A
23	BB	2751	G
23	BB	2752	C
23	BB	2757	A
23	BB	2765	A
23	BB	2778	A
23	BB	2791	G
23	BB	2796	U
23	BB	2797	U
23	BB	2800	A
23	BB	2801	G
23	BB	2808	G
23	BB	2820	A
23	BB	2821	A
23	BB	2836	U
23	BB	2850	A
23	BB	2866	U
23	BB	2867	G
23	BB	2872	A
23	BB	2873	A
23	BB	2883	A
23	BB	2894	G
23	BB	2903	U
1	CA	7	A
1	CA	9	G
1	CA	14	U
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	52	C
1	CA	55	A
1	CA	61	G
1	CA	71	A
1	CA	72	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	83	C
1	CA	87	C
1	CA	92	U
1	CA	93	U
1	CA	94	G
1	CA	108	G
1	CA	121	U
1	CA	122	G
1	CA	131	A
1	CA	151	A
1	CA	182	A
1	CA	197	A
1	CA	209	U
1	CA	210	C
1	CA	226	G
1	CA	239	U
1	CA	240	G
1	CA	243	A
1	CA	244	U
1	CA	245	U
1	CA	247	G
1	CA	250	A
1	CA	251	G
1	CA	257	G
1	CA	258	G
1	CA	266	G
1	CA	267	C
1	CA	280	C
1	CA	289	G
1	CA	328	C
1	CA	329	A
1	CA	330	C
1	CA	332	G
1	CA	345	C
1	CA	351	G
1	CA	352	C
1	CA	354	G
1	CA	367	U
1	CA	372	C
1	CA	373	A
1	CA	381	C
1	CA	382	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	397	A
1	CA	398	U
1	CA	406	G
1	CA	408	A
1	CA	409	U
1	CA	411	A
1	CA	412	A
1	CA	414	A
1	CA	415	A
1	CA	421	U
1	CA	422	C
1	CA	424	G
1	CA	429	U
1	CA	430	A
1	CA	435	A
1	CA	438	U
1	CA	461	A
1	CA	462	G
1	CA	463	U
1	CA	464	U
1	CA	465	A
1	CA	466	A
1	CA	467	U
1	CA	468	A
1	CA	469	C
1	CA	479	U
1	CA	481	G
1	CA	484	G
1	CA	485	U
1	CA	493	A
1	CA	518	C
1	CA	522	C
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	547	A
1	CA	559	A
1	CA	562	U
1	CA	564	C
1	CA	572	A
1	CA	573	A
1	CA	576	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	577	G
1	CA	639	G
1	CA	650	G
1	CA	653	U
1	CA	665	A
1	CA	687	A
1	CA	700	G
1	CA	721	G
1	CA	724	G
1	CA	731	G
1	CA	733	G
1	CA	747	A
1	CA	748	G
1	CA	755	G
1	CA	777	A
1	CA	781	A
1	CA	782	A
1	CA	793	U
1	CA	794	A
1	CA	812	G
1	CA	815	A
1	CA	817	C
1	CA	818	G
1	CA	819	A
1	CA	828	U
1	CA	829	G
1	CA	841	C
1	CA	842	U
1	CA	843	U
1	CA	844	G
1	CA	845	A
1	CA	846	G
1	CA	907	A
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	945	G
1	CA	961	U
1	CA	969	A
1	CA	974	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	976	G
1	CA	977	A
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1004	A
1	CA	1009	U
1	CA	1010	U
1	CA	1020	G
1	CA	1022	A
1	CA	1023	U
1	CA	1025	U
1	CA	1031	C
1	CA	1033	G
1	CA	1034	G
1	CA	1036	A
1	CA	1044	A
1	CA	1050	G
1	CA	1053	G
1	CA	1054	C
1	CA	1065	U
1	CA	1066	C
1	CA	1091	U
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1118	U
1	CA	1129	C
1	CA	1130	A
1	CA	1135	U
1	CA	1136	C
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1140	C
1	CA	1144	G
1	CA	1159	U
1	CA	1160	G
1	CA	1168	U
1	CA	1178	G
1	CA	1184	G
1	CA	1196	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	1197	A
1	CA	1201	A
1	CA	1202	U
1	CA	1211	U
1	CA	1212	U
1	CA	1213	A
1	CA	1214	C
1	CA	1225	A
1	CA	1226	C
1	CA	1227	A
1	CA	1241	G
1	CA	1256	A
1	CA	1257	A
1	CA	1258	G
1	CA	1280	A
1	CA	1281	C
1	CA	1282	C
1	CA	1285	A
1	CA	1298	U
1	CA	1300	G
1	CA	1301	U
1	CA	1302	C
1	CA	1303	C
1	CA	1305	G
1	CA	1317	C
1	CA	1318	A
1	CA	1320	C
1	CA	1331	G
1	CA	1362	A
1	CA	1380	U
1	CA	1397	C
1	CA	1398	A
1	CA	1400	C
1	CA	1401	G
1	CA	1419	G
1	CA	1426	G
1	CA	1432	G
1	CA	1446	A
1	CA	1452	C
1	CA	1493	A
1	CA	1497	G
1	CA	1503	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	CA	1505	G
1	CA	1506	U
1	CA	1507	A
1	CA	1517	G
1	CA	1520	C
1	CA	1529	G
1	CA	1530	G
1	CA	1533	C
1	CA	1534	A
22	DA	13	G
22	DA	15	A
22	DA	16	G
22	DA	18	G
22	DA	25	U
22	DA	26	C
22	DA	27	C
22	DA	28	C
22	DA	29	A
22	DA	42	C
22	DA	44	G
22	DA	52	A
22	DA	53	A
22	DA	56	G
22	DA	57	A
22	DA	66	A
22	DA	67	G
22	DA	89	U
22	DA	90	C
22	DA	91	C
22	DA	99	A
22	DA	109	A
23	DB	12	U
23	DB	27	G
23	DB	35	G
23	DB	46	G
23	DB	49	A
23	DB	51	G
23	DB	52	A
23	DB	63	A
23	DB	64	A
23	DB	71	A
23	DB	74	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	75	G
23	DB	91	A
23	DB	98	G
23	DB	99	U
23	DB	100	U
23	DB	101	A
23	DB	102	U
23	DB	103	A
23	DB	118	A
23	DB	119	A
23	DB	120	U
23	DB	124	G
23	DB	125	A
23	DB	126	A
23	DB	128	C
23	DB	139	U
23	DB	141	G
23	DB	144	A
23	DB	160	A
23	DB	162	U
23	DB	163	C
23	DB	180	G
23	DB	181	A
23	DB	196	A
23	DB	216	A
23	DB	221	A
23	DB	222	A
23	DB	223	A
23	DB	230	G
23	DB	233	A
23	DB	248	G
23	DB	250	G
23	DB	252	G
23	DB	255	A
23	DB	265	A
23	DB	266	G
23	DB	267	C
23	DB	271	G
23	DB	277	G
23	DB	278	A
23	DB	289	G
23	DB	299	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	301	G
23	DB	302	C
23	DB	311	A
23	DB	312	G
23	DB	323	C
23	DB	329	G
23	DB	330	A
23	DB	333	G
23	DB	346	A
23	DB	353	C
23	DB	354	A
23	DB	361	G
23	DB	363	G
23	DB	365	U
23	DB	371	A
23	DB	372	G
23	DB	386	G
23	DB	387	U
23	DB	396	G
23	DB	403	U
23	DB	404	A
23	DB	405	U
23	DB	406	G
23	DB	411	G
23	DB	412	A
23	DB	424	G
23	DB	444	C
23	DB	448	U
23	DB	449	A
23	DB	455	C
23	DB	456	C
23	DB	457	A
23	DB	458	G
23	DB	475	C
23	DB	479	A
23	DB	480	A
23	DB	481	G
23	DB	491	G
23	DB	504	A
23	DB	505	A
23	DB	506	G
23	DB	508	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	509	C
23	DB	512	G
23	DB	527	C
23	DB	530	G
23	DB	531	C
23	DB	532	A
23	DB	533	G
23	DB	544	C
23	DB	545	U
23	DB	546	U
23	DB	547	A
23	DB	548	G
23	DB	549	G
23	DB	550	C
23	DB	563	A
23	DB	572	A
23	DB	573	U
23	DB	575	A
23	DB	588	U
23	DB	603	A
23	DB	613	A
23	DB	614	A
23	DB	615	U
23	DB	616	A
23	DB	627	A
23	DB	637	A
23	DB	645	C
23	DB	646	U
23	DB	654	A
23	DB	655	A
23	DB	671	C
23	DB	686	U
23	DB	704	G
23	DB	718	A
23	DB	719	C
23	DB	727	A
23	DB	730	A
23	DB	747	U
23	DB	757	G
23	DB	765	C
23	DB	775	G
23	DB	782	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	784	G
23	DB	785	G
23	DB	805	G
23	DB	812	C
23	DB	819	A
23	DB	827	U
23	DB	828	U
23	DB	844	A
23	DB	846	U
23	DB	847	U
23	DB	859	G
23	DB	869	G
23	DB	877	A
23	DB	899	A
23	DB	910	A
23	DB	912	C
23	DB	919	U
23	DB	931	U
23	DB	932	U
23	DB	933	A
23	DB	941	A
23	DB	946	C
23	DB	955	U
23	DB	961	C
23	DB	973	A
23	DB	974	G
23	DB	982	C
23	DB	983	A
23	DB	991	C
23	DB	995	C
23	DB	1012	U
23	DB	1013	C
23	DB	1022	G
23	DB	1025	G
23	DB	1033	U
23	DB	1046	A
23	DB	1047	G
23	DB	1070	A
23	DB	1088	A
23	DB	1090	A
23	DB	1098	A
23	DB	1112	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	1116	G
23	DB	1130	U
23	DB	1132	U
23	DB	1133	A
23	DB	1134	A
23	DB	1136	G
23	DB	1142	A
23	DB	1176	U
23	DB	1179	G
23	DB	1195	G
23	DB	1205	A
23	DB	1206	G
23	DB	1210	G
23	DB	1211	C
23	DB	1212	G
23	DB	1225	G
23	DB	1237	A
23	DB	1241	A
23	DB	1242	U
23	DB	1247	A
23	DB	1248	G
23	DB	1249	U
23	DB	1250	G
23	DB	1251	C
23	DB	1252	G
23	DB	1253	A
23	DB	1256	G
23	DB	1266	G
23	DB	1271	G
23	DB	1272	A
23	DB	1275	A
23	DB	1276	A
23	DB	1301	A
23	DB	1302	A
23	DB	1312	U
23	DB	1325	U
23	DB	1337	G
23	DB	1341	G
23	DB	1345	C
23	DB	1352	U
23	DB	1365	A
23	DB	1379	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	1383	A
23	DB	1384	A
23	DB	1396	U
23	DB	1397	U
23	DB	1416	G
23	DB	1417	C
23	DB	1419	A
23	DB	1420	A
23	DB	1427	A
23	DB	1428	C
23	DB	1434	A
23	DB	1451	C
23	DB	1453	A
23	DB	1454	C
23	DB	1455	G
23	DB	1459	G
23	DB	1460	U
23	DB	1461	C
23	DB	1476	U
23	DB	1477	A
23	DB	1478	G
23	DB	1482	G
23	DB	1490	A
23	DB	1493	C
23	DB	1494	A
23	DB	1504	A
23	DB	1508	A
23	DB	1509	A
23	DB	1510	G
23	DB	1524	G
23	DB	1532	A
23	DB	1535	A
23	DB	1537	G
23	DB	1538	G
23	DB	1540	G
23	DB	1552	A
23	DB	1558	C
23	DB	1559	U
23	DB	1567	G
23	DB	1569	A
23	DB	1578	U
23	DB	1585	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	1608	A
23	DB	1610	A
23	DB	1613	G
23	DB	1634	A
23	DB	1635	A
23	DB	1640	A
23	DB	1647	U
23	DB	1648	U
23	DB	1649	G
23	DB	1674	G
23	DB	1700	A
23	DB	1706	C
23	DB	1707	G
23	DB	1713	A
23	DB	1715	G
23	DB	1716	U
23	DB	1723	G
23	DB	1729	U
23	DB	1730	C
23	DB	1731	G
23	DB	1733	G
23	DB	1738	G
23	DB	1758	U
23	DB	1764	C
23	DB	1773	A
23	DB	1781	U
23	DB	1786	A
23	DB	1800	C
23	DB	1816	C
23	DB	1829	A
23	DB	1833	C
23	DB	1870	C
23	DB	1873	G
23	DB	1876	A
23	DB	1884	G
23	DB	1906	G
23	DB	1913	A
23	DB	1914	C
23	DB	1927	A
23	DB	1929	G
23	DB	1930	G
23	DB	1937	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	1938	A
23	DB	1939	U
23	DB	1940	U
23	DB	1955	U
23	DB	1966	A
23	DB	1967	C
23	DB	1970	A
23	DB	1971	U
23	DB	1972	G
23	DB	1991	U
23	DB	1993	U
23	DB	1997	C
23	DB	2022	U
23	DB	2023	C
23	DB	2031	A
23	DB	2033	A
23	DB	2043	C
23	DB	2055	C
23	DB	2056	G
23	DB	2060	A
23	DB	2061	G
23	DB	2062	A
23	DB	2069	G
23	DB	2076	U
23	DB	2077	A
23	DB	2092	U
23	DB	2094	A
23	DB	2096	C
23	DB	2100	G
23	DB	2104	C
23	DB	2106	U
23	DB	2107	G
23	DB	2109	U
23	DB	2134	A
23	DB	2135	A
23	DB	2138	G
23	DB	2143	C
23	DB	2145	C
23	DB	2147	A
23	DB	2156	G
23	DB	2157	G
23	DB	2181	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	2183	A
23	DB	2190	G
23	DB	2199	A
23	DB	2204	G
23	DB	2210	U
23	DB	2212	A
23	DB	2225	A
23	DB	2239	G
23	DB	2253	G
23	DB	2268	A
23	DB	2283	C
23	DB	2287	A
23	DB	2288	A
23	DB	2297	A
23	DB	2305	U
23	DB	2307	G
23	DB	2308	G
23	DB	2309	A
23	DB	2310	C
23	DB	2319	G
23	DB	2321	U
23	DB	2322	A
23	DB	2325	G
23	DB	2333	A
23	DB	2334	U
23	DB	2336	A
23	DB	2337	G
23	DB	2347	C
23	DB	2383	G
23	DB	2385	C
23	DB	2402	U
23	DB	2403	C
23	DB	2406	A
23	DB	2423	U
23	DB	2426	A
23	DB	2429	G
23	DB	2430	A
23	DB	2434	A
23	DB	2441	U
23	DB	2448	A
23	DB	2472	G
23	DB	2476	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	2491	U
23	DB	2492	U
23	DB	2502	G
23	DB	2505	G
23	DB	2506	U
23	DB	2518	A
23	DB	2529	G
23	DB	2535	G
23	DB	2554	U
23	DB	2566	A
23	DB	2567	G
23	DB	2573	C
23	DB	2585	U
23	DB	2586	U
23	DB	2597	G
23	DB	2602	A
23	DB	2609	U
23	DB	2610	C
23	DB	2613	U
23	DB	2621	G
23	DB	2629	U
23	DB	2654	A
23	DB	2682	A
23	DB	2689	U
23	DB	2690	U
23	DB	2714	G
23	DB	2725	A
23	DB	2726	A
23	DB	2744	G
23	DB	2757	A
23	DB	2765	A
23	DB	2778	A
23	DB	2791	G
23	DB	2796	U
23	DB	2797	U
23	DB	2800	A
23	DB	2801	G
23	DB	2808	G
23	DB	2820	A
23	DB	2821	A
23	DB	2836	U
23	DB	2850	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	2866	U
23	DB	2867	G
23	DB	2872	A
23	DB	2873	A
23	DB	2883	A
23	DB	2894	G
23	DB	2903	U

All (79) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	51	A
1	AA	60	A
1	AA	243	A
1	AA	279	A
1	AA	328	C
1	AA	366	A
1	AA	372	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	576	C
1	AA	913	A
1	AA	960	U
1	AA	975	A
1	AA	1049	U
1	AA	1065	U
1	AA	1101	A
1	AA	1181	G
1	AA	1201	A
1	AA	1226	C
1	AA	1286	U
1	AA	1300	G
1	AA	1397	C
1	AA	1528	U
23	BB	63	A
23	BB	102	U
23	BB	162	U
23	BB	670	A
23	BB	1205	A
23	BB	1210	G
23	BB	1236	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	BB	1250	G
23	BB	1913	A
23	BB	2282	G
23	BB	2336	A
23	BB	2425	A
23	BB	2756	U
1	CA	51	A
1	CA	60	A
1	CA	243	A
1	CA	279	A
1	CA	328	C
1	CA	366	A
1	CA	372	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	960	U
1	CA	975	A
1	CA	1030	U
1	CA	1049	U
1	CA	1064	G
1	CA	1065	U
1	CA	1135	U
1	CA	1201	A
1	CA	1226	C
1	CA	1300	G
1	CA	1301	U
1	CA	1302	C
1	CA	1397	C
1	CA	1451	U
23	DB	63	A
23	DB	125	A
23	DB	162	U
23	DB	199	A
23	DB	301	G
23	DB	544	C
23	DB	670	A
23	DB	982	C
23	DB	1205	A
23	DB	1210	G
23	DB	1211	C
23	DB	2076	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	DB	2198	A
23	DB	2282	G
23	DB	2286	G
23	DB	2336	A
23	DB	2425	A
23	DB	2756	U

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 345 ligands modelled in this entry, 343 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
53	KSG	AA	1601	-	24,27,27	2.46	3 (12%)	29,40,40	1.05	2 (6%)
53	KSG	CA	1601	-	24,27,27	2.32	4 (16%)	29,40,40	0.93	1 (3%)

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
53	KSG	AA	1601	-	-	1/8/52/52	0/2/2/2
53	KSG	CA	1601	-	-	1/8/52/52	0/2/2/2

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	AA	1601	KSG	C14-C13	-9.89	1.49	1.53
53	CA	1601	KSG	C14-C13	-8.47	1.49	1.53
53	AA	1601	KSG	O7-C1	2.21	1.47	1.41
53	CA	1601	KSG	O1-C1	2.43	1.48	1.41
53	CA	1601	KSG	C1-C12	2.52	1.57	1.52
53	CA	1601	KSG	O7-C1	2.57	1.48	1.41
53	AA	1601	KSG	C1-C12	2.57	1.57	1.52

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
53	AA	1601	KSG	C1-O1-C2	-2.12	112.46	118.01
53	CA	1601	KSG	C6-C7-C2	2.12	114.26	109.60
53	AA	1601	KSG	C4-C3-C2	2.31	114.68	109.60

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
53	AA	1601	KSG	C2-O1-C1-C12
53	CA	1601	KSG	C2-O1-C1-C12

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
53	AA	1601	KSG	3	0
53	CA	1601	KSG	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1530/1542 (99%)	0.27	26 (1%) 73 66	15, 73, 149, 180	0
1	CA	1530/1542 (99%)	0.04	16 (1%) 84 78	7, 52, 134, 180	0
2	AC	206/233 (88%)	0.87	27 (13%) 5 5	7, 68, 138, 180	0
2	CC	206/233 (88%)	0.54	12 (5%) 26 23	6, 74, 126, 169	0
3	AD	205/206 (99%)	1.10	46 (22%) 1 1	27, 79, 147, 180	0
3	CD	205/206 (99%)	0.31	2 (0%) 84 78	5, 55, 113, 165	0
4	AE	150/167 (89%)	0.65	9 (6%) 25 22	15, 62, 120, 162	0
4	CE	150/167 (89%)	0.60	8 (5%) 30 26	6, 55, 112, 180	0
5	AF	100/135 (74%)	0.62	7 (7%) 19 18	18, 72, 133, 166	0
5	CF	100/135 (74%)	0.90	14 (14%) 4 4	12, 71, 132, 165	0
6	AG	150/179 (83%)	0.84	27 (18%) 2 2	22, 89, 143, 180	0
6	CG	152/179 (84%)	0.86	21 (13%) 4 5	19, 86, 147, 180	0
7	AH	129/130 (99%)	1.24	27 (20%) 1 1	14, 70, 141, 176	0
7	CH	129/130 (99%)	0.71	19 (14%) 3 4	5, 54, 114, 160	0
8	AI	127/130 (97%)	1.16	29 (22%) 1 1	18, 90, 146, 180	0
8	CI	127/130 (97%)	1.21	31 (24%) 1 1	23, 92, 156, 180	0
9	AJ	98/103 (95%)	1.28	28 (28%) 1 1	20, 82, 157, 180	0
9	CJ	98/103 (95%)	0.70	6 (6%) 25 22	34, 79, 135, 151	0
10	AK	117/129 (90%)	0.59	8 (6%) 20 19	7, 55, 138, 160	0
10	CK	117/129 (90%)	0.46	7 (5%) 25 22	11, 50, 105, 142	0
11	AL	123/124 (99%)	0.74	11 (8%) 12 12	21, 61, 128, 178	0
11	CL	123/124 (99%)	0.87	11 (8%) 12 12	5, 39, 119, 160	0
12	AM	114/118 (96%)	1.13	20 (17%) 2 2	44, 106, 159, 173	0
12	CM	113/118 (95%)	1.32	24 (21%) 1 1	26, 100, 157, 180	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AN	96/101 (95%)	1.83	36 (37%) 0 0	15, 84, 151, 180	0
13	CN	96/101 (95%)	1.15	19 (19%) 1 2	21, 82, 139, 161	0
14	AO	88/89 (98%)	1.02	17 (19%) 2 2	18, 70, 114, 180	0
14	CO	88/89 (98%)	0.57	4 (4%) 37 31	14, 51, 112, 150	0
15	AP	82/82 (100%)	0.93	11 (13%) 4 5	27, 89, 142, 180	0
15	CP	80/82 (97%)	0.98	11 (13%) 4 5	5, 46, 145, 180	0
16	AQ	80/84 (95%)	1.53	21 (26%) 1 1	37, 91, 140, 180	0
16	CQ	81/84 (96%)	0.94	8 (9%) 9 11	12, 57, 119, 154	0
17	AR	55/75 (73%)	1.35	15 (27%) 1 1	18, 69, 147, 164	0
17	CR	55/75 (73%)	1.04	7 (12%) 5 6	13, 53, 126, 175	0
18	AS	79/92 (85%)	2.14	36 (45%) 0 0	59, 112, 174, 180	0
18	CS	80/92 (86%)	2.10	33 (41%) 0 0	48, 109, 172, 180	0
19	AT	85/87 (97%)	1.17	18 (21%) 1 1	36, 94, 142, 170	0
19	CT	85/87 (97%)	1.57	27 (31%) 1 1	17, 55, 118, 179	0
20	AB	218/241 (90%)	0.91	38 (17%) 2 2	28, 92, 142, 180	0
20	CB	218/241 (90%)	0.67	22 (10%) 9 10	27, 96, 157, 180	0
21	AU	51/71 (71%)	1.14	10 (19%) 1 2	26, 94, 153, 174	0
21	CU	51/71 (71%)	1.31	14 (27%) 1 1	29, 82, 163, 180	0
22	BA	117/120 (97%)	0.07	2 (1%) 73 66	39, 67, 125, 171	0
22	DA	117/120 (97%)	0.01	2 (1%) 73 66	34, 73, 116, 180	0
23	BB	2841/2904 (97%)	0.21	43 (1%) 76 70	9, 53, 144, 180	0
23	DB	2841/2904 (97%)	0.15	25 (0%) 85 79	5, 45, 143, 180	0
24	BV	94/94 (100%)	0.74	13 (13%) 4 5	26, 78, 134, 155	0
24	DV	94/94 (100%)	0.55	6 (6%) 23 21	34, 83, 139, 162	0
25	BC	267/273 (97%)	1.25	51 (19%) 2 2	5, 53, 143, 180	0
25	DC	267/273 (97%)	1.15	45 (16%) 2 2	5, 52, 158, 180	0
26	BD	209/209 (100%)	1.49	57 (27%) 1 1	9, 82, 157, 180	0
26	DD	209/209 (100%)	1.29	47 (22%) 1 1	5, 57, 142, 180	0
27	BE	201/201 (100%)	1.39	49 (24%) 1 1	5, 85, 162, 180	0
27	DE	201/201 (100%)	1.41	44 (21%) 1 1	6, 82, 170, 180	0
28	BF	178/179 (99%)	0.96	39 (21%) 1 1	39, 105, 168, 180	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
28	DF	178/179 (99%)	0.81	20 (11%)	7	8	29, 96, 154, 180	0
29	BG	176/177 (99%)	1.35	46 (26%)	1	1	34, 100, 164, 180	0
29	DG	176/177 (99%)	0.94	31 (17%)	2	2	23, 88, 156, 180	0
30	BH	149/149 (100%)	2.44	69 (46%)	0	0	22, 126, 180, 180	0
30	DH	149/149 (100%)	1.58	47 (31%)	1	1	30, 106, 167, 180	0
31	BJ	140/142 (98%)	1.06	28 (20%)	1	2	11, 88, 153, 180	0
31	DJ	140/142 (98%)	0.89	21 (15%)	3	3	7, 66, 148, 176	0
32	BK	121/123 (98%)	0.77	12 (9%)	9	11	13, 60, 118, 152	0
32	DK	121/123 (98%)	0.61	3 (2%)	61	54	5, 36, 92, 134	0
33	BL	144/144 (100%)	2.69	69 (47%)	0	0	15, 86, 167, 180	0
33	DL	144/144 (100%)	2.22	57 (39%)	0	0	5, 81, 156, 180	0
34	BM	136/136 (100%)	1.64	40 (29%)	1	1	13, 71, 175, 180	0
34	DM	136/136 (100%)	1.21	25 (18%)	2	2	11, 70, 164, 180	0
35	BN	127/127 (100%)	1.61	41 (32%)	1	0	17, 78, 169, 180	0
35	DN	127/127 (100%)	1.12	16 (12%)	5	6	5, 48, 159, 180	0
36	BO	117/117 (100%)	1.87	37 (31%)	1	1	26, 91, 167, 180	0
36	DO	117/117 (100%)	1.86	40 (34%)	0	0	5, 91, 172, 180	0
37	BP	114/115 (99%)	1.91	49 (42%)	0	0	18, 98, 172, 180	0
37	DP	114/115 (99%)	1.55	32 (28%)	1	1	7, 65, 166, 180	0
38	BQ	117/118 (99%)	0.56	10 (8%)	13	13	13, 66, 146, 174	0
38	DQ	117/118 (99%)	0.94	18 (15%)	3	3	6, 57, 158, 180	0
39	BR	103/103 (100%)	1.16	23 (22%)	1	1	24, 105, 167, 180	0
39	DR	103/103 (100%)	1.75	36 (34%)	0	0	25, 92, 157, 180	0
40	BS	110/110 (100%)	0.71	8 (7%)	18	17	9, 63, 133, 180	0
40	DS	110/110 (100%)	0.81	9 (8%)	14	14	5, 46, 137, 180	0
41	BT	99/100 (99%)	1.73	40 (40%)	0	0	25, 81, 162, 180	0
41	DT	99/100 (99%)	2.70	57 (57%)	0	0	15, 86, 168, 180	0
42	BU	102/104 (98%)	2.35	40 (39%)	0	0	17, 91, 169, 180	0
42	DU	102/104 (98%)	1.91	34 (33%)	0	0	30, 110, 171, 180	0
43	BW	84/85 (98%)	2.75	39 (46%)	0	0	10, 86, 159, 180	0
43	DW	84/85 (98%)	2.52	36 (42%)	0	0	16, 86, 168, 180	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
44	BX	63/63 (100%)	1.86	19 (30%)	1	1	20, 97, 160, 180	0
44	DX	63/63 (100%)	2.81	26 (41%)	0	0	38, 110, 169, 180	0
45	BY	58/59 (98%)	1.66	17 (29%)	1	1	13, 86, 157, 180	0
45	DY	58/59 (98%)	1.28	12 (20%)	1	1	5, 79, 136, 150	0
46	BZ	70/70 (100%)	0.96	10 (14%)	4	4	19, 66, 145, 180	0
46	DZ	70/70 (100%)	1.49	23 (32%)	0	0	5, 68, 141, 180	0
47	B0	56/57 (98%)	1.48	14 (25%)	1	1	26, 95, 180, 180	0
47	D0	56/57 (98%)	1.68	14 (25%)	1	1	10, 70, 159, 177	0
48	B1	54/55 (98%)	1.50	14 (25%)	1	1	24, 97, 160, 180	0
48	D1	54/55 (98%)	2.85	29 (53%)	0	0	8, 82, 158, 180	0
49	B2	46/46 (100%)	1.42	11 (23%)	1	1	6, 51, 154, 174	0
49	D2	46/46 (100%)	1.19	7 (15%)	3	3	9, 55, 131, 150	0
50	B3	64/65 (98%)	2.07	23 (35%)	0	0	19, 61, 155, 180	0
50	D3	64/65 (98%)	2.05	23 (35%)	0	0	5, 61, 139, 178	0
51	B4	38/38 (100%)	2.87	22 (57%)	0	0	30, 102, 170, 180	0
51	D4	38/38 (100%)	2.80	17 (44%)	0	0	14, 111, 175, 180	0
52	BI	141/142 (99%)	2.63	86 (60%)	0	0	52, 152, 180, 180	0
52	DI	141/142 (99%)	2.83	97 (68%)	0	0	83, 160, 180, 180	0
All	All	20439/21086 (96%)	0.80	2703 (13%)	4	5	5, 67, 155, 180	0

All (2703) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
33	BL	98	ALA	17.5
36	BO	58	ILE	17.1
33	BL	8	PRO	16.2
41	DT	4	GLU	15.3
42	BU	29	SER	15.2
42	BU	1	ALA	14.6
33	DL	11	GLY	14.6
44	DX	31	GLN	14.3
36	BO	59	ALA	13.4
27	DE	171	ASP	13.4
44	DX	36	GLN	13.1
25	BC	5	CYS	13.0
36	DO	59	ALA	13.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	DO	58	ILE	12.9
45	BY	3	THR	12.7
42	DU	1	ALA	12.4
33	BL	7	SER	12.3
42	DU	61	GLU	12.2
43	BW	52	CYS	12.0
48	D1	4	ILE	12.0
36	DO	60	GLU	11.9
33	BL	99	ASN	11.7
42	BU	89	GLY	11.5
43	DW	52	CYS	11.5
37	BP	24	THR	11.1
33	BL	9	ALA	11.1
45	DY	1	ALA	11.1
43	BW	45	HIS	11.1
33	BL	1	MET	11.0
36	BO	69	ASP	10.9
30	BH	93	SER	10.8
43	BW	83	ALA	10.7
25	BC	7	PRO	10.7
44	DX	34	SER	10.6
44	DX	32	ALA	10.6
34	DM	133	LYS	10.3
27	BE	1	MET	10.2
27	BE	2	GLU	10.2
39	DR	44	GLY	10.1
33	DL	1	MET	9.9
30	BH	80	ILE	9.9
33	BL	82	LEU	9.9
37	DP	1	SER	9.9
44	DX	33	ALA	9.8
35	DN	124	ALA	9.7
27	DE	170	ARG	9.7
30	BH	92	GLY	9.6
50	B3	63	TYR	9.6
42	DU	27	VAL	9.6
34	BM	56	ALA	9.5
37	DP	97	TYR	9.3
41	DT	2	ILE	9.3
26	DD	70	LYS	9.3
27	DE	3	LEU	9.2
33	DL	99	ASN	9.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	DL	4	ASN	9.2
33	BL	83	ALA	9.2
30	BH	147	VAL	9.2
35	BN	67	PHE	9.2
51	D4	31	PRO	9.1
51	D4	1	MET	9.1
51	B4	23	ILE	9.1
25	DC	7	PRO	9.1
28	DF	74	ALA	9.1
23	BB	1175	A	9.0
30	BH	124	THR	9.0
35	BN	125	ALA	8.9
44	DX	1	MET	8.9
27	DE	169	VAL	8.8
23	BB	139	U	8.7
35	DN	126	ALA	8.7
30	BH	91	PHE	8.7
50	B3	61	LEU	8.7
42	DU	29	SER	8.6
43	DW	58	LEU	8.6
25	BC	166	ARG	8.6
44	DX	37	LEU	8.6
42	BU	88	ASP	8.5
41	DT	70	HIS	8.5
43	DW	83	ALA	8.5
48	D1	5	ARG	8.5
44	BX	1	MET	8.5
44	DX	20	ASN	8.5
33	DL	6	LEU	8.5
44	DX	35	GLY	8.5
35	BN	124	ALA	8.5
33	DL	12	SER	8.4
37	BP	26	GLU	8.4
23	DB	2133	G	8.4
33	DL	55	MET	8.4
26	BD	91	THR	8.4
43	BW	2	HIS	8.4
42	BU	2	ALA	8.3
33	BL	97	ALA	8.3
26	DD	51	THR	8.3
7	AH	1	SER	8.3
50	D3	63	TYR	8.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	BH	94	ILE	8.2
43	BW	78	PHE	8.2
50	B3	60	CYS	8.2
50	B3	64	ALA	8.2
30	DH	20	ASN	8.2
33	BL	77	ILE	8.2
30	BH	85	GLY	8.2
13	CN	35	ALA	8.1
43	BW	79	ILE	8.1
33	DL	7	SER	8.1
48	D1	3	GLY	8.1
29	BG	58	ALA	8.1
48	D1	53	ILE	8.1
26	DD	90	PHE	8.0
27	DE	145	ASP	8.0
51	B4	29	ALA	8.0
33	DL	144	GLU	8.0
48	B1	3	GLY	8.0
35	BN	127	GLU	8.0
47	D0	55	ALA	7.9
50	D3	64	ALA	7.9
33	DL	100	ILE	7.8
26	DD	71	ALA	7.8
30	BH	142	VAL	7.8
43	BW	82	GLU	7.8
34	BM	1	MET	7.8
30	BH	130	VAL	7.8
39	DR	26	ASP	7.8
26	BD	92	VAL	7.8
36	DO	1	MET	7.7
42	BU	30	SER	7.7
43	BW	58	LEU	7.7
34	BM	136	MET	7.7
37	DP	112	ARG	7.7
42	BU	61	GLU	7.6
8	CI	129	ARG	7.6
41	DT	93	LEU	7.5
52	DI	1	ALA	7.5
27	DE	2	GLU	7.5
51	B4	38	GLY	7.5
23	BB	2145	C	7.4
47	D0	56	LYS	7.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
39	DR	43	ASN	7.4
43	DW	35	ILE	7.4
36	BO	57	ALA	7.4
43	DW	5	ALA	7.4
25	BC	21	PRO	7.3
25	DC	8	THR	7.3
43	BW	1	ALA	7.3
41	DT	1	MET	7.3
33	DL	5	THR	7.3
27	BE	144	GLU	7.3
47	D0	33	SER	7.3
42	BU	59	GLU	7.3
34	BM	134	THR	7.3
37	DP	59	THR	7.3
52	DI	98	GLY	7.2
43	BW	4	LYS	7.2
48	D1	2	LYS	7.2
25	DC	5	CYS	7.2
16	AQ	5	ARG	7.2
33	DL	74	THR	7.2
33	BL	5	THR	7.2
26	DD	91	THR	7.2
48	D1	1	ALA	7.2
39	DR	53	PHE	7.1
35	DN	120	GLU	7.1
15	AP	81	ALA	7.1
51	D4	30	GLU	7.1
6	AG	76	SER	7.1
34	DM	10	ARG	7.0
39	DR	78	ARG	7.0
36	BO	6	ALA	7.0
42	DU	60	LYS	7.0
14	AO	88	ARG	7.0
26	BD	134	HIS	7.0
51	B4	1	MET	7.0
34	BM	135	VAL	6.9
48	B1	1	ALA	6.9
23	BB	137	U	6.9
42	BU	28	LEU	6.9
44	BX	63	ALA	6.9
27	BE	201	ALA	6.9
30	BH	81	ALA	6.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	BL	56	PRO	6.8
42	DU	28	LEU	6.8
26	BD	90	PHE	6.8
29	BG	1	SER	6.8
36	BO	7	ARG	6.8
26	BD	135	GLY	6.8
30	BH	148	ALA	6.8
49	B2	15	SER	6.8
33	DL	52	GLY	6.8
34	BM	132	THR	6.8
18	AS	73	PHE	6.8
34	DM	134	THR	6.7
52	BI	1	ALA	6.7
33	BL	28	GLY	6.7
47	D0	44	ALA	6.7
13	AN	60	ARG	6.7
25	BC	6	LYS	6.7
27	BE	114	ARG	6.7
30	BH	86	ASP	6.7
8	AI	34	LEU	6.7
25	DC	268	ARG	6.7
22	DA	88	C	6.7
25	BC	242	HIS	6.7
1	AA	86	G	6.7
41	DT	71	GLY	6.7
12	CM	3	ILE	6.6
43	BW	59	PHE	6.6
23	BB	2308	G	6.6
48	B1	4	ILE	6.6
35	BN	122	ALA	6.6
6	AG	78	ARG	6.6
23	DB	139	U	6.6
43	DW	84	GLU	6.6
30	DH	122	LEU	6.5
18	CS	25	GLY	6.5
23	DB	1175	A	6.5
52	BI	59	THR	6.5
43	DW	68	PHE	6.5
35	BN	126	ALA	6.5
25	BC	268	ARG	6.5
52	DI	137	LEU	6.5
41	DT	99	ALA	6.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
43	DW	1	ALA	6.4
44	DX	46	VAL	6.4
12	CM	47	LEU	6.4
25	DC	6	LYS	6.4
18	AS	40	PHE	6.4
52	BI	58	ILE	6.4
51	D4	33	HIS	6.4
48	D1	54	LYS	6.4
37	DP	26	GLU	6.4
30	BH	79	THR	6.3
33	BL	49	GLY	6.3
43	DW	73	PRO	6.3
44	BX	38	GLN	6.3
52	DI	83	ALA	6.3
23	DB	645	C	6.3
35	DN	119	SER	6.2
46	DZ	58	ASP	6.2
27	DE	19	PHE	6.2
25	BC	8	THR	6.2
49	B2	14	ARG	6.1
44	DX	38	GLN	6.1
18	CS	26	ASP	6.1
36	BO	88	LYS	6.1
35	DN	123	GLU	6.1
29	DG	43	LYS	6.1
35	DN	127	GLU	6.1
33	BL	38	GLN	6.1
19	CT	35	TYR	6.1
17	CR	19	GLU	6.1
37	DP	4	ILE	6.1
25	BC	256	THR	6.1
27	BE	42	GLY	6.0
26	DD	69	ALA	6.0
52	BI	70	THR	6.0
52	DI	97	VAL	6.0
33	BL	6	LEU	6.0
33	DL	92	LEU	6.0
43	DW	2	HIS	5.9
33	DL	143	GLU	5.9
51	D4	37	GLN	5.9
52	BI	4	VAL	5.9
51	B4	22	VAL	5.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
44	DX	39	GLN	5.9
36	DO	64	TYR	5.9
52	BI	2	LYS	5.9
52	BI	6	ALA	5.9
27	DE	23	PHE	5.9
52	BI	115	ASP	5.9
30	BH	128	HIS	5.9
36	DO	57	ALA	5.9
25	DC	3	VAL	5.9
30	BH	122	LEU	5.9
27	BE	145	ASP	5.8
52	BI	47	SER	5.8
26	BD	186	LEU	5.8
37	DP	55	HIS	5.8
34	BM	2	LEU	5.8
27	DE	168	ASP	5.8
12	CM	46	GLU	5.8
50	B3	62	PRO	5.8
37	BP	23	ASP	5.8
52	DI	6	ALA	5.8
36	BO	56	LYS	5.8
43	DW	79	ILE	5.8
18	AS	14	LEU	5.8
40	BS	40	ASN	5.8
29	BG	51	PHE	5.7
18	AS	29	PRO	5.7
20	CB	220	VAL	5.7
42	DU	69	VAL	5.7
12	AM	83	GLY	5.7
38	DQ	96	ASP	5.7
34	BM	92	TRP	5.7
18	CS	2	ARG	5.7
51	D4	23	ILE	5.7
30	DH	19	VAL	5.7
36	DO	61	GLN	5.7
48	B1	2	LYS	5.7
39	DR	42	ALA	5.7
18	AS	2	ARG	5.7
26	DD	55	LYS	5.7
27	BE	5	LEU	5.7
33	BL	10	GLU	5.7
25	BC	267	VAL	5.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
29	BG	42	VAL	5.6
51	B4	28	SER	5.6
27	DE	111	GLU	5.6
25	BC	238	ASN	5.6
8	CI	31	GLN	5.6
47	B0	56	LYS	5.6
18	CS	78	THR	5.6
43	BW	68	PHE	5.6
12	AM	55	LEU	5.6
52	DI	84	GLY	5.6
27	BE	4	VAL	5.6
52	BI	97	VAL	5.6
43	BW	53	GLY	5.6
44	DX	19	LEU	5.6
30	BH	149	GLU	5.6
35	BN	123	GLU	5.6
50	B3	23	HIS	5.5
43	DW	4	LYS	5.5
52	DI	132	ALA	5.5
16	AQ	27	PHE	5.5
43	DW	44	PHE	5.5
44	BX	2	LYS	5.5
18	AS	47	THR	5.5
38	DQ	117	ALA	5.5
51	B4	25	VAL	5.5
3	AD	3	TYR	5.5
23	DB	2402	U	5.5
19	CT	86	ALA	5.5
19	AT	27	MET	5.5
42	BU	91	LYS	5.5
36	DO	24	THR	5.5
33	BL	34	GLY	5.5
40	BS	1	MET	5.5
26	DD	49	GLN	5.5
51	D4	25	VAL	5.5
52	DI	53	PRO	5.4
33	BL	4	ASN	5.4
44	DX	24	GLU	5.4
21	AU	44	ARG	5.4
35	DN	125	ALA	5.4
43	DW	3	LYS	5.4
52	DI	52	LEU	5.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
31	BJ	10	THR	5.4
25	DC	209	ALA	5.4
26	BD	9	VAL	5.4
35	BN	119	SER	5.4
5	AF	52	ASN	5.4
19	CT	67	HIS	5.4
27	DE	165	HIS	5.3
21	CU	41	THR	5.3
45	DY	58	GLU	5.3
20	CB	123	GLY	5.3
26	BD	133	THR	5.3
27	BE	115	GLN	5.3
36	BO	19	GLN	5.3
33	BL	37	GLY	5.3
42	DU	68	ASN	5.3
52	BI	3	LYS	5.3
8	AI	127	SER	5.3
20	CB	124	THR	5.3
43	DW	45	HIS	5.3
49	B2	13	ASN	5.2
47	D0	34	GLY	5.2
6	AG	145	GLU	5.2
36	BO	5	SER	5.2
27	DE	112	LEU	5.2
33	DL	3	LEU	5.2
47	D0	43	THR	5.2
30	BH	133	GLN	5.2
52	DI	111	THR	5.2
23	BB	2799	A	5.2
26	BD	64	GLU	5.2
34	DM	91	TYR	5.2
52	DI	30	GLN	5.2
52	BI	52	LEU	5.2
23	BB	2309	A	5.2
13	AN	46	LYS	5.2
44	DX	47	ARG	5.2
41	BT	6	ARG	5.2
26	DD	92	VAL	5.2
3	AD	146	GLU	5.1
12	AM	79	LEU	5.1
13	AN	30	ILE	5.1
44	BX	27	ASN	5.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	BP	49	ILE	5.1
18	AS	60	PHE	5.1
52	DI	136	GLY	5.1
50	D3	62	PRO	5.1
52	BI	20	SER	5.1
43	DW	67	LYS	5.1
30	BH	116	ARG	5.1
34	BM	3	GLN	5.1
30	BH	146	VAL	5.1
2	AC	98	ALA	5.1
52	BI	53	PRO	5.1
52	DI	21	PRO	5.0
25	BC	258	SER	5.0
39	BR	11	GLN	5.0
41	BT	72	GLN	5.0
41	DT	74	ILE	5.0
48	B1	53	ILE	5.0
52	DI	85	ILE	5.0
25	BC	20	ASN	5.0
27	DE	24	ASN	5.0
35	BN	71	ARG	5.0
33	BL	117	THR	5.0
18	AS	18	VAL	5.0
33	BL	12	SER	5.0
30	BH	127	GLU	5.0
19	CT	51	ASN	5.0
52	BI	21	PRO	5.0
45	BY	57	GLU	5.0
8	CI	128	LYS	5.0
30	BH	20	ASN	5.0
51	B4	24	ARG	5.0
29	DG	42	VAL	5.0
43	DW	37	VAL	5.0
39	DR	12	HIS	5.0
39	BR	52	PRO	4.9
43	BW	81	ILE	4.9
15	AP	82	ALA	4.9
25	DC	247	TRP	4.9
34	BM	103	TYR	4.9
33	BL	78	ARG	4.9
41	DT	69	ARG	4.9
13	AN	20	PHE	4.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
22	BA	88	C	4.9
29	BG	93	TYR	4.9
23	BB	654	A	4.9
45	DY	57	GLU	4.9
1	AA	121	U	4.9
37	BP	20	ARG	4.9
33	BL	76	GLU	4.9
51	D4	38	GLY	4.9
51	B4	35	GLN	4.9
41	DT	98	GLY	4.9
25	BC	4	LYS	4.9
16	AQ	6	THR	4.9
30	BH	84	ALA	4.9
36	DO	23	ALA	4.9
36	DO	89	ASP	4.9
30	DH	149	GLU	4.9
18	AS	48	ILE	4.9
30	BH	132	PHE	4.9
30	BH	90	LEU	4.8
52	DI	25	PRO	4.8
16	AQ	45	VAL	4.8
36	BO	89	ASP	4.8
27	BE	128	ALA	4.8
23	DB	140	C	4.8
31	DJ	43	GLU	4.8
36	DO	35	ILE	4.8
29	BG	176	LYS	4.8
52	DI	5	GLN	4.8
28	BF	31	GLU	4.8
41	DT	5	GLU	4.8
23	BB	2148	G	4.8
25	DC	9	SER	4.8
30	BH	123	ARG	4.8
17	AR	36	GLY	4.8
52	BI	5	GLN	4.8
30	BH	50	ARG	4.8
47	B0	49	ARG	4.8
35	DN	122	ALA	4.8
18	AS	30	LEU	4.8
2	AC	158	GLY	4.8
36	BO	61	GLN	4.8
52	DI	99	LYS	4.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	BT	77	ARG	4.8
35	BN	68	ALA	4.7
31	BJ	98	GLU	4.7
39	DR	33	VAL	4.7
26	BD	17	GLU	4.7
27	BE	129	PRO	4.7
38	DQ	72	GLY	4.7
21	CU	37	TYR	4.7
33	BL	52	GLY	4.7
36	BO	60	GLU	4.7
41	DT	37	ASP	4.7
26	BD	25	THR	4.7
52	DI	9	LYS	4.7
23	BB	1459	G	4.7
30	DH	136	SER	4.7
52	BI	8	VAL	4.7
20	AB	15	PHE	4.7
52	DI	78	LEU	4.7
41	DT	72	GLN	4.7
26	BD	132	ALA	4.7
34	BM	55	ARG	4.7
45	BY	2	LYS	4.7
3	AD	43	ARG	4.7
52	DI	7	TYR	4.7
30	BH	96	THR	4.6
7	AH	110	MET	4.6
37	BP	99	LEU	4.6
52	BI	60	VAL	4.6
42	DU	32	LYS	4.6
47	D0	35	GLU	4.6
16	CQ	6	THR	4.6
50	D3	28	LEU	4.6
37	BP	51	ASN	4.6
33	BL	57	LEU	4.6
36	DO	28	VAL	4.6
42	BU	87	GLU	4.6
50	D3	36	ALA	4.6
51	B4	9	LYS	4.6
51	B4	15	LYS	4.6
7	AH	74	ILE	4.6
42	BU	93	ARG	4.6
51	D4	7	VAL	4.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	BH	82	SER	4.6
52	BI	54	ILE	4.6
43	BW	77	LYS	4.6
26	DD	74	GLU	4.6
33	BL	40	SER	4.6
1	AA	78	A	4.6
43	DW	6	GLY	4.6
26	DD	33	ARG	4.6
29	BG	170	THR	4.6
42	DU	102	ILE	4.6
18	AS	11	ASP	4.5
37	BP	88	ARG	4.5
30	BH	76	GLU	4.5
33	DL	10	GLU	4.5
44	BX	39	GLN	4.5
11	AL	123	ALA	4.5
34	DM	136	MET	4.5
16	AQ	20	ILE	4.5
52	BI	48	ILE	4.5
37	BP	97	TYR	4.5
48	D1	32	LYS	4.5
31	BJ	100	VAL	4.5
29	DG	169	ARG	4.5
52	BI	7	TYR	4.5
23	BB	140	C	4.5
26	BD	149	ASN	4.5
33	BL	39	LYS	4.5
41	BT	95	PHE	4.5
23	DB	1459	G	4.5
25	BC	85	ASN	4.5
44	BX	20	ASN	4.5
34	DM	56	ALA	4.5
30	DH	72	ILE	4.5
28	DF	73	VAL	4.5
31	BJ	44	TYR	4.5
44	BX	37	LEU	4.5
31	BJ	1	MET	4.5
52	BI	116	MET	4.5
42	BU	56	GLY	4.4
30	BH	101	ASP	4.4
37	DP	3	ILE	4.4
43	BW	42	THR	4.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
52	DI	47	SER	4.4
40	BS	93	ALA	4.4
40	DS	109	ASP	4.4
51	D4	16	ILE	4.4
37	DP	19	PHE	4.4
52	BI	79	LEU	4.4
33	DL	49	GLY	4.4
29	DG	51	PHE	4.4
1	AA	1362	A	4.4
3	AD	155	LYS	4.4
27	DE	153	LEU	4.4
47	D0	45	ASP	4.4
6	AG	38	ALA	4.4
30	BH	104	THR	4.4
37	BP	3	ILE	4.4
50	D3	32	LEU	4.4
33	DL	53	GLY	4.4
27	DE	199	MET	4.4
25	BC	43	ASN	4.4
12	AM	95	PRO	4.4
18	AS	46	LEU	4.4
39	DR	34	GLU	4.4
41	DT	47	VAL	4.4
52	DI	82	ALA	4.4
34	DM	135	VAL	4.4
34	DM	1	MET	4.4
7	CH	62	LEU	4.4
27	BE	143	LEU	4.4
2	AC	153	SER	4.4
6	AG	84	TYR	4.4
8	AI	69	GLY	4.3
41	BT	69	ARG	4.3
43	BW	74	LYS	4.3
27	BE	3	LEU	4.3
52	DI	135	MET	4.3
25	BC	218	THR	4.3
27	DE	172	ALA	4.3
30	BH	141	LYS	4.3
35	BN	121	LYS	4.3
39	DR	77	PHE	4.3
7	AH	102	VAL	4.3
29	DG	56	GLY	4.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
50	B3	44	ARG	4.3
20	AB	32	GLY	4.3
52	DI	80	LYS	4.3
25	BC	165	ALA	4.3
16	AQ	36	PHE	4.3
52	DI	12	VAL	4.3
50	D3	33	THR	4.3
20	AB	199	ILE	4.3
33	DL	2	ARG	4.3
25	DC	85	ASN	4.3
42	BU	101	THR	4.3
27	BE	158	PHE	4.3
35	BN	6	SER	4.2
23	BB	1537	G	4.2
44	DX	23	ARG	4.2
52	BI	85	ILE	4.2
48	D1	36	LYS	4.2
47	B0	55	ALA	4.2
1	CA	85	U	4.2
52	DI	81	LYS	4.2
25	BC	247	TRP	4.2
41	DT	27	SER	4.2
47	B0	33	SER	4.2
52	BI	25	PRO	4.2
41	DT	13	ALA	4.2
6	CG	104	VAL	4.2
30	BH	110	VAL	4.2
50	B3	13	PHE	4.2
14	CO	69	LEU	4.2
17	CR	63	TYR	4.2
33	DL	58	TYR	4.2
36	BO	92	PHE	4.2
43	DW	11	ASN	4.2
34	DM	40	ARG	4.2
43	DW	19	ARG	4.2
41	BT	4	GLU	4.2
52	BI	31	GLY	4.2
52	DI	100	ILE	4.2
39	BR	91	GLN	4.2
39	DR	11	GLN	4.2
15	AP	43	ALA	4.2
52	DI	48	ILE	4.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BN	20	MET	4.2
37	BP	87	ARG	4.2
44	BX	3	ALA	4.2
52	BI	11	GLN	4.2
16	AQ	7	LEU	4.2
23	BB	136	G	4.1
29	DG	176	LYS	4.1
15	AP	39	PHE	4.1
38	DQ	46	TYR	4.1
33	BL	2	ARG	4.1
50	D3	7	ARG	4.1
27	BE	48	THR	4.1
7	AH	13	ILE	4.1
18	CS	10	ILE	4.1
18	AS	36	ARG	4.1
23	BB	2147	A	4.1
18	CS	65	MET	4.1
1	AA	466	A	4.1
50	D3	35	LYS	4.1
52	DI	26	ALA	4.1
37	BP	59	THR	4.1
23	DB	2799	A	4.1
52	BI	14	ALA	4.1
44	BX	62	GLY	4.1
29	BG	35	THR	4.1
3	AD	36	ALA	4.1
29	DG	172	GLU	4.1
35	DN	57	THR	4.1
3	AD	154	VAL	4.1
17	AR	38	ILE	4.1
49	B2	18	PHE	4.1
47	B0	45	ASP	4.1
52	DI	89	SER	4.1
39	DR	98	ILE	4.1
30	DH	12	LEU	4.1
39	BR	92	TRP	4.1
43	BW	3	LYS	4.1
30	DH	18	GLN	4.1
41	BT	79	ASP	4.1
1	CA	1362	A	4.1
13	AN	40	ARG	4.1
13	CN	30	ILE	4.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
28	DF	112	ASP	4.0
26	BD	148	GLN	4.0
28	BF	45	ASP	4.0
27	BE	15	SER	4.0
30	BH	131	SER	4.0
26	BD	34	VAL	4.0
44	DX	2	LYS	4.0
29	DG	170	THR	4.0
52	DI	75	ALA	4.0
43	BW	67	LYS	4.0
3	AD	173	ASP	4.0
41	DT	31	VAL	4.0
8	AI	29	ILE	4.0
52	BI	78	LEU	4.0
52	DI	58	ILE	4.0
12	AM	85	TYR	4.0
13	AN	27	LYS	4.0
30	BH	18	GLN	4.0
42	BU	32	LYS	4.0
30	BH	19	VAL	4.0
20	AB	128	LEU	4.0
25	BC	10	PRO	4.0
33	DL	8	PRO	4.0
31	BJ	130	HIS	4.0
50	D3	60	CYS	4.0
14	AO	58	MET	4.0
30	DH	25	TYR	4.0
20	AB	157	PRO	4.0
34	BM	109	PRO	4.0
52	BI	86	LYS	4.0
31	DJ	1	MET	4.0
41	BT	5	GLU	4.0
48	D1	52	LYS	3.9
52	BI	87	SER	3.9
23	BB	645	C	3.9
46	DZ	2	LYS	3.9
52	DI	57	VAL	3.9
14	CO	45	HIS	3.9
20	AB	211	LEU	3.9
18	CS	64	GLU	3.9
6	CG	38	ALA	3.9
35	BN	72	ASP	3.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
23	BB	2153	C	3.9
28	DF	72	SER	3.9
41	BT	32	LEU	3.9
23	BB	546	U	3.9
41	DT	96	VAL	3.9
52	BI	68	PHE	3.9
27	DE	144	GLU	3.9
37	DP	80	VAL	3.9
41	DT	94	ASP	3.9
45	BY	1	ALA	3.9
50	B3	26	ALA	3.9
26	DD	79	LEU	3.9
39	BR	26	ASP	3.9
26	BD	147	GLY	3.9
25	DC	218	THR	3.9
29	DG	39	ALA	3.9
25	DC	257	ARG	3.9
40	BS	103	ILE	3.9
3	AD	28	ASP	3.9
13	CN	34	ASN	3.9
24	BV	91	PHE	3.9
25	DC	210	ALA	3.9
52	DI	37	PHE	3.9
38	DQ	58	GLN	3.9
38	BQ	90	ASP	3.9
48	D1	31	GLU	3.9
33	DL	48	ARG	3.9
33	BL	19	LEU	3.9
16	AQ	9	GLY	3.9
30	DH	112	LYS	3.9
30	DH	50	ARG	3.9
33	BL	62	PRO	3.9
20	AB	31	PHE	3.9
31	DJ	50	THR	3.9
33	BL	53	GLY	3.9
33	DL	140	GLY	3.9
1	CA	121	U	3.9
37	BP	4	ILE	3.9
41	DT	33	LYS	3.9
30	BH	97	ARG	3.9
52	DI	70	THR	3.8
52	BI	95	ASP	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
12	CM	16	ILE	3.8
17	AR	73	HIS	3.8
20	CB	38	HIS	3.8
41	BT	38	ALA	3.8
43	DW	25	PHE	3.8
13	AN	21	ALA	3.8
30	BH	98	ASP	3.8
34	BM	65	ILE	3.8
39	DR	5	PHE	3.8
28	BF	42	ALA	3.8
38	DQ	91	ARG	3.8
13	AN	59	GLN	3.8
42	DU	91	LYS	3.8
1	AA	79	G	3.8
18	AS	31	ARG	3.8
37	DP	75	THR	3.8
52	BI	108	ILE	3.8
28	DF	68	LYS	3.8
29	BG	21	GLN	3.8
48	B1	54	LYS	3.8
13	AN	5	MET	3.8
52	BI	128	ILE	3.8
20	CB	204	ASP	3.8
37	BP	74	GLN	3.8
26	BD	126	ASN	3.8
16	AQ	55	GLY	3.8
6	AG	4	ARG	3.8
39	BR	12	HIS	3.8
52	BI	18	ASN	3.8
30	BH	87	GLU	3.8
42	BU	90	LYS	3.8
35	BN	7	GLY	3.8
35	DN	1	MET	3.8
52	BI	76	ALA	3.8
19	AT	41	GLY	3.8
20	CB	34	ARG	3.8
33	DL	59	ARG	3.8
34	BM	125	PRO	3.8
21	CU	42	THR	3.8
31	DJ	49	ASP	3.8
11	CL	24	GLU	3.8
36	BO	8	ILE	3.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
42	BU	71	ILE	3.8
6	AG	7	GLY	3.8
20	AB	212	TYR	3.8
35	BN	1	MET	3.8
41	DT	91	GLN	3.8
30	BH	126	GLY	3.8
48	D1	48	TYR	3.8
50	B3	12	ARG	3.8
18	CS	40	PHE	3.8
30	DH	38	PRO	3.8
21	CU	35	GLU	3.8
39	BR	41	ILE	3.8
42	BU	14	THR	3.8
1	AA	461	A	3.8
43	BW	35	ILE	3.8
51	D4	34	LYS	3.8
13	AN	45	LEU	3.8
30	DH	21	VAL	3.8
35	BN	14	SER	3.8
36	BO	52	SER	3.8
37	BP	77	SER	3.8
26	DD	64	GLU	3.8
39	DR	90	ARG	3.8
18	CS	73	PHE	3.7
19	AT	34	VAL	3.7
28	DF	24	VAL	3.7
25	DC	242	HIS	3.7
41	DT	80	TRP	3.7
41	DT	53	VAL	3.7
14	AO	16	ARG	3.7
41	BT	25	GLU	3.7
13	AN	50	LEU	3.7
27	DE	48	THR	3.7
50	D3	48	MET	3.7
30	DH	17	ASP	3.7
39	DR	55	ASP	3.7
37	DP	61	ARG	3.7
26	BD	183	GLU	3.7
27	DE	25	GLU	3.7
13	AN	48	GLN	3.7
18	CS	48	ILE	3.7
52	BI	118	GLY	3.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	CD	28	ASP	3.7
36	DO	21	LEU	3.7
52	BI	137	LEU	3.7
26	BD	150	GLN	3.7
39	DR	27	ILE	3.7
36	DO	7	ARG	3.7
42	BU	47	PRO	3.7
28	BF	152	ASP	3.7
29	BG	150	TYR	3.7
52	DI	49	GLU	3.7
51	D4	32	LYS	3.7
29	DG	44	HIS	3.7
15	AP	44	SER	3.7
41	DT	89	GLU	3.7
43	DW	82	GLU	3.7
34	DM	18	ARG	3.7
11	CL	123	ALA	3.7
12	CM	60	ALA	3.7
18	CS	68	HIS	3.7
1	CA	1031	C	3.7
25	BC	224	MET	3.7
42	BU	45	GLN	3.7
52	BI	119	ALA	3.7
52	DI	38	CYS	3.7
25	BC	269	ARG	3.7
39	BR	71	LYS	3.7
36	DO	45	SER	3.7
18	CS	59	VAL	3.7
25	BC	3	VAL	3.7
37	BP	28	LYS	3.7
37	BP	61	ARG	3.7
1	AA	83	C	3.7
43	BW	37	VAL	3.7
33	DL	35	HIS	3.7
30	BH	109	GLU	3.6
52	DI	101	SER	3.6
23	BB	2104	C	3.6
19	CT	38	ILE	3.6
8	CI	39	GLY	3.6
28	BF	116	LEU	3.6
5	CF	96	VAL	3.6
13	CN	98	ALA	3.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
12	CM	59	VAL	3.6
34	BM	126	ILE	3.6
2	AC	151	GLU	3.6
41	DT	54	GLU	3.6
30	DH	116	ARG	3.6
28	BF	131	VAL	3.6
52	BI	125	THR	3.6
23	BB	2146	C	3.6
27	DE	142	ALA	3.6
18	CS	60	PHE	3.6
37	BP	27	VAL	3.6
13	AN	68	ARG	3.6
29	DG	2	ARG	3.6
18	CS	1	PRO	3.6
25	BC	241	LYS	3.6
46	DZ	41	HIS	3.6
31	BJ	120	ARG	3.6
20	AB	68	PHE	3.6
15	CP	47	GLU	3.6
28	BF	112	ASP	3.6
52	BI	49	GLU	3.6
52	DI	79	LEU	3.6
37	BP	18	SER	3.6
23	BB	2154	A	3.6
23	DB	2134	A	3.6
36	DO	107	ALA	3.6
30	DH	139	PHE	3.6
52	BI	10	LEU	3.6
27	BE	113	VAL	3.6
27	BE	41	GLN	3.6
42	BU	68	ASN	3.6
26	BD	178	VAL	3.6
52	DI	4	VAL	3.6
3	AD	108	ALA	3.6
33	BL	35	HIS	3.6
36	BO	3	LYS	3.6
25	DC	269	ARG	3.6
45	BY	41	PRO	3.6
31	BJ	99	ARG	3.5
34	DM	132	THR	3.5
36	BO	43	ASN	3.5
52	DI	125	THR	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
22	BA	52	A	3.5
30	BH	83	LYS	3.5
13	AN	55	SER	3.5
23	BB	1538	G	3.5
27	BE	200	LEU	3.5
30	DH	130	VAL	3.5
1	AA	87	C	3.5
46	BZ	63	ARG	3.5
15	CP	52	LEU	3.5
18	CS	70	LEU	3.5
18	CS	74	ALA	3.5
46	DZ	64	PHE	3.5
43	BW	84	GLU	3.5
2	CC	166	TRP	3.5
26	DD	80	TRP	3.5
25	BC	127	ASN	3.5
47	B0	34	GLY	3.5
28	BF	129	MET	3.5
1	CA	1534	A	3.5
43	BW	8	SER	3.5
52	DI	134	SER	3.5
13	CN	42	ASN	3.5
30	BH	105	ALA	3.5
13	CN	46	LYS	3.5
30	BH	144	VAL	3.5
27	BE	117	ARG	3.5
48	D1	12	SER	3.5
3	AD	175	GLY	3.5
16	CQ	3	LYS	3.5
36	BO	76	LYS	3.5
16	AQ	8	GLN	3.5
18	AS	9	PHE	3.5
14	AO	55	LEU	3.5
16	AQ	29	LYS	3.5
39	BR	37	GLU	3.5
6	AG	8	GLN	3.5
5	CF	94	HIS	3.5
47	B0	41	HIS	3.5
21	CU	34	ARG	3.5
36	BO	87	ILE	3.5
37	BP	92	ARG	3.5
48	D1	43	ARG	3.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
52	BI	139	VAL	3.5
21	AU	41	THR	3.5
49	D2	43	THR	3.5
6	CG	152	HIS	3.5
41	BT	27	SER	3.5
18	AS	59	VAL	3.5
51	B4	7	VAL	3.5
18	AS	43	MET	3.5
43	BW	9	THR	3.5
46	DZ	20	ASN	3.5
6	AG	79	VAL	3.5
9	AJ	34	ALA	3.5
36	DO	37	ALA	3.5
49	B2	46	LYS	3.5
13	AN	23	ARG	3.5
20	CB	126	ASP	3.5
47	D0	25	THR	3.5
48	D1	23	THR	3.5
33	DL	45	GLY	3.5
16	AQ	82	VAL	3.5
34	BM	5	LYS	3.5
45	BY	49	ALA	3.5
20	AB	34	ARG	3.5
52	BI	30	GLN	3.5
17	CR	58	ILE	3.4
29	DG	59	ASP	3.4
12	CM	109	LYS	3.4
41	DT	67	VAL	3.4
35	BN	15	SER	3.4
13	CN	72	PHE	3.4
26	DD	127	PHE	3.4
27	DE	141	MET	3.4
45	BY	38	GLU	3.4
7	AH	33	VAL	3.4
19	AT	30	PHE	3.4
27	BE	60	TRP	3.4
44	BX	26	PHE	3.4
13	CN	73	LEU	3.4
46	BZ	22	MET	3.4
41	DT	68	LYS	3.4
2	CC	154	GLY	3.4
25	DC	28	PRO	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
42	BU	69	VAL	3.4
3	AD	35	GLN	3.4
7	AH	58	LEU	3.4
13	CN	22	LYS	3.4
43	DW	59	PHE	3.4
19	CT	65	LEU	3.4
25	DC	156	SER	3.4
29	DG	1	SER	3.4
36	BO	106	LEU	3.4
41	DT	50	LEU	3.4
8	CI	64	ILE	3.4
23	BB	138	U	3.4
37	BP	75	THR	3.4
25	BC	239	PHE	3.4
7	CH	120	LEU	3.4
29	BG	147	LEU	3.4
36	DO	19	GLN	3.4
12	CM	52	ILE	3.4
26	BD	2	ILE	3.4
41	DT	34	VAL	3.4
28	DF	175	PRO	3.4
18	CS	79	TYR	3.4
8	CI	127	SER	3.4
52	DI	138	VAL	3.4
26	BD	140	HIS	3.4
30	BH	75	LEU	3.4
34	DM	106	ASP	3.4
41	DT	28	ASN	3.4
28	BF	153	ILE	3.4
41	DT	10	VAL	3.4
29	DG	41	GLU	3.4
25	DC	167	ASP	3.4
8	AI	56	MET	3.4
14	AO	72	LYS	3.4
34	DM	128	THR	3.4
28	BF	73	VAL	3.4
15	CP	43	ALA	3.4
37	BP	50	ARG	3.4
40	DS	108	SER	3.4
42	DU	2	ALA	3.4
39	BR	25	LEU	3.4
41	DT	26	LYS	3.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
50	D3	53	ASP	3.4
20	CB	163	ILE	3.4
34	BM	83	GLY	3.4
37	DP	24	THR	3.4
52	DI	110	GLN	3.4
3	AD	4	LEU	3.4
18	AS	58	PRO	3.4
12	AM	78	ARG	3.4
21	CU	8	ASN	3.4
33	DL	93	ASN	3.4
26	DD	68	PHE	3.4
31	BJ	119	PHE	3.4
12	AM	82	LEU	3.4
43	DW	74	LYS	3.4
3	AD	191	SER	3.4
18	AS	13	HIS	3.4
25	DC	258	SER	3.4
40	BS	34	ASP	3.4
33	BL	50	PHE	3.4
37	BP	73	PHE	3.4
42	BU	84	PHE	3.4
29	BG	148	ARG	3.3
52	BI	73	PRO	3.3
30	BH	121	VAL	3.3
4	CE	158	LYS	3.3
9	CJ	102	LEU	3.3
12	AM	88	LEU	3.3
35	BN	66	ALA	3.3
34	BM	10	ARG	3.3
19	CT	53	MET	3.3
32	BK	122	VAL	3.3
33	DL	28	GLY	3.3
43	BW	51	GLY	3.3
6	CG	105	GLU	3.3
13	CN	18	LYS	3.3
33	DL	50	PHE	3.3
41	DT	12	ARG	3.3
7	AH	125	ILE	3.3
11	AL	122	LYS	3.3
33	BL	84	LYS	3.3
37	BP	60	VAL	3.3
25	DC	59	GLN	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
26	DD	100	LEU	3.3
27	BE	153	LEU	3.3
33	DL	67	THR	3.3
33	BL	144	GLU	3.3
31	BJ	131	ASN	3.3
52	DI	128	ILE	3.3
3	AD	197	HIS	3.3
48	D1	38	PHE	3.3
33	BL	27	LEU	3.3
1	CA	1032	G	3.3
23	DB	141	G	3.3
45	DY	2	LYS	3.3
27	BE	22	ASP	3.3
33	BL	91	ASP	3.3
20	AB	195	VAL	3.3
7	AH	2	MET	3.3
52	DI	131	THR	3.3
34	BM	98	PRO	3.3
27	BE	38	GLY	3.3
28	BF	148	VAL	3.3
31	BJ	18	VAL	3.3
43	BW	5	ALA	3.3
6	AG	28	ILE	3.3
33	BL	142	ILE	3.3
34	BM	11	LYS	3.3
34	BM	32	GLY	3.3
46	DZ	47	LYS	3.3
51	B4	30	GLU	3.3
52	DI	139	VAL	3.3
35	BN	102	PHE	3.3
28	BF	151	LEU	3.3
35	BN	2	ARG	3.3
37	DP	37	LYS	3.3
41	BT	26	LYS	3.3
37	BP	55	HIS	3.3
9	AJ	41	PRO	3.3
28	BF	83	PRO	3.3
1	AA	85	U	3.2
26	DD	125	TRP	3.2
50	D3	12	ARG	3.2
42	DU	48	VAL	3.2
26	BD	127	PHE	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
6	AG	77	ARG	3.2
27	BE	188	MET	3.2
27	DE	125	SER	3.2
27	DE	140	ASP	3.2
32	DK	49	ARG	3.2
26	BD	164	GLN	3.2
37	DP	30	TRP	3.2
33	DL	101	ILE	3.2
18	CS	29	PRO	3.2
20	CB	68	PHE	3.2
36	DO	30	ARG	3.2
33	BL	11	GLY	3.2
37	BP	109	ILE	3.2
36	BO	4	LYS	3.2
39	DR	39	LEU	3.2
42	DU	49	PRO	3.2
23	BB	2157	G	3.2
52	BI	35	MET	3.2
13	AN	31	SER	3.2
28	BF	74	ALA	3.2
39	DR	59	ILE	3.2
46	BZ	4	ASP	3.2
45	BY	52	PHE	3.2
34	BM	4	PRO	3.2
25	BC	22	GLU	3.2
27	BE	127	GLU	3.2
26	BD	53	GLY	3.2
26	BD	153	GLY	3.2
27	DE	86	ALA	3.2
33	BL	54	GLN	3.2
38	BQ	48	ASP	3.2
41	DT	55	VAL	3.2
2	CC	153	SER	3.2
52	DI	96	LYS	3.2
4	AE	113	VAL	3.2
36	DO	8	ILE	3.2
45	DY	10	ARG	3.2
50	D3	21	PHE	3.2
45	BY	23	LEU	3.2
52	BI	65	SER	3.2
42	BU	55	GLY	3.2
52	BI	138	VAL	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
17	AR	72	ARG	3.2
11	AL	97	VAL	3.2
36	DO	22	GLY	3.2
52	DI	27	LEU	3.2
7	CH	89	ASP	3.2
45	DY	29	ARG	3.2
20	AB	153	MET	3.2
1	AA	81	A	3.2
19	CT	34	VAL	3.2
23	DB	2147	A	3.2
29	DG	160	GLY	3.2
38	DQ	55	GLN	3.2
38	BQ	111	LYS	3.2
13	CN	17	ASP	3.2
17	AR	21	ASP	3.2
5	AF	88	MET	3.2
17	AR	39	VAL	3.2
8	AI	16	ALA	3.2
27	BE	138	LEU	3.2
42	DU	34	ILE	3.2
8	AI	42	THR	3.2
17	AR	46	THR	3.2
30	BH	115	VAL	3.2
36	DO	86	GLY	3.2
41	DT	57	VAL	3.2
12	CM	18	LEU	3.2
13	CN	45	LEU	3.2
25	BC	212	TRP	3.1
24	DV	56	PHE	3.1
51	B4	20	ASP	3.1
6	CG	29	LEU	3.1
12	CM	55	LEU	3.1
43	DW	18	LYS	3.1
35	BN	8	ARG	3.1
48	D1	27	ARG	3.1
24	BV	59	GLU	3.1
37	BP	62	LYS	3.1
20	AB	100	LEU	3.1
20	CB	39	ILE	3.1
20	CB	56	LEU	3.1
25	BC	57	HIS	3.1
26	DD	59	ARG	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	DT	87	LEU	3.1
23	BB	2139	U	3.1
37	BP	98	TYR	3.1
31	DJ	102	GLU	3.1
41	BT	82	LYS	3.1
28	BF	30	VAL	3.1
36	BO	103	VAL	3.1
19	CT	60	GLN	3.1
48	B1	49	LYS	3.1
29	BG	130	ILE	3.1
29	BG	161	VAL	3.1
43	DW	78	PHE	3.1
40	DS	1	MET	3.1
46	BZ	5	ILE	3.1
25	DC	256	THR	3.1
26	BD	16	THR	3.1
26	DD	140	HIS	3.1
30	BH	100	ALA	3.1
27	DE	155	GLU	3.1
30	DH	76	GLU	3.1
41	DT	36	LYS	3.1
10	AK	49	SER	3.1
19	AT	12	GLN	3.1
49	B2	35	ARG	3.1
31	BJ	89	PHE	3.1
8	AI	64	ILE	3.1
19	AT	66	ILE	3.1
29	BG	92	GLY	3.1
2	CC	165	GLU	3.1
8	CI	8	THR	3.1
31	BJ	3	THR	3.1
31	DJ	10	THR	3.1
35	BN	36	THR	3.1
50	B3	9	ALA	3.1
33	BL	126	ARG	3.1
33	DL	62	PRO	3.1
15	AP	71	VAL	3.1
28	BF	161	SER	3.1
50	D3	19	GLY	3.1
24	BV	34	LYS	3.1
51	D4	18	LYS	3.1
39	DR	92	TRP	3.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AD	6	PRO	3.1
10	AK	128	VAL	3.1
18	CS	50	VAL	3.1
35	BN	48	VAL	3.1
12	AM	32	ILE	3.1
41	BT	7	LEU	3.1
18	CS	43	MET	3.1
27	BE	49	ARG	3.1
38	BQ	50	ARG	3.1
19	CT	74	HIS	3.1
16	AQ	14	ASP	3.1
22	DA	52	A	3.1
34	BM	33	LEU	3.1
39	DR	87	GLN	3.1
48	D1	39	ASP	3.1
52	BI	66	PHE	3.1
3	AD	42	ALA	3.1
28	BF	35	LEU	3.1
1	CA	461	A	3.1
21	AU	3	ILE	3.1
29	BG	120	ILE	3.1
29	BG	155	PRO	3.1
52	DI	116	MET	3.1
19	CT	62	ALA	3.1
28	BF	142	TYR	3.1
25	DC	20	ASN	3.1
28	DF	174	PHE	3.1
31	BJ	47	HIS	3.1
37	DP	40	GLN	3.1
41	BT	10	VAL	3.1
27	DE	22	ASP	3.1
47	B0	51	ARG	3.1
52	DI	104	GLN	3.1
48	D1	16	THR	3.1
23	BB	613	A	3.1
52	BI	112	LYS	3.1
31	BJ	40	HIS	3.1
17	AR	20	ILE	3.1
20	CB	35	ASN	3.1
27	BE	155	GLU	3.0
33	DL	115	GLU	3.0
19	AT	35	TYR	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
27	BE	72	SER	3.0
52	BI	134	SER	3.0
6	AG	6	ILE	3.0
37	BP	22	GLY	3.0
48	D1	8	ILE	3.0
6	CG	66	GLU	3.0
3	AD	145	ARG	3.0
25	BC	209	ALA	3.0
9	AJ	42	LEU	3.0
12	CM	82	LEU	3.0
33	BL	66	PHE	3.0
29	DG	89	VAL	3.0
13	AN	9	GLU	3.0
15	AP	80	LYS	3.0
36	DO	3	LYS	3.0
44	BX	5	GLU	3.0
13	AN	51	PRO	3.0
29	DG	55	ASP	3.0
25	BC	257	ARG	3.0
30	BH	111	ALA	3.0
36	DO	97	PHE	3.0
42	BU	86	PHE	3.0
35	DN	121	LYS	3.0
4	CE	115	GLU	3.0
7	CH	129	ALA	3.0
23	DB	62	U	3.0
33	BL	55	MET	3.0
46	BZ	27	THR	3.0
51	D4	3	VAL	3.0
31	BJ	9	GLU	3.0
33	DL	68	SER	3.0
52	DI	74	PRO	3.0
7	AH	128	VAL	3.0
29	BG	159	LYS	3.0
41	DT	44	LYS	3.0
23	BB	144	A	3.0
16	CQ	26	ARG	3.0
31	DJ	80	HIS	3.0
31	DJ	2	LYS	3.0
42	DU	88	ASP	3.0
47	B0	53	VAL	3.0
40	BS	66	ILE	3.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
14	AO	61	GLN	3.0
25	DC	4	LYS	3.0
30	BH	74	ALA	3.0
30	BH	73	ASN	3.0
36	DO	16	ARG	3.0
43	BW	43	LYS	3.0
41	DT	8	LEU	3.0
1	CA	1042	A	3.0
52	BI	26	ALA	3.0
30	DH	28	ASN	3.0
35	BN	112	TYR	3.0
52	DI	95	ASP	3.0
5	CF	80	PHE	3.0
46	DZ	18	CYS	3.0
19	CT	78	LEU	3.0
35	DN	45	ARG	3.0
25	BC	156	SER	3.0
33	BL	25	SER	3.0
48	B1	12	SER	3.0
52	DI	76	ALA	3.0
23	DB	1205	A	3.0
28	DF	55	ASP	3.0
8	AI	38	PHE	3.0
45	BY	24	LEU	3.0
8	CI	15	ALA	3.0
24	BV	1	MET	3.0
29	BG	91	VAL	3.0
34	BM	124	LEU	3.0
35	BN	19	ALA	3.0
39	DR	45	GLU	3.0
42	BU	44	HIS	3.0
26	BD	14	ILE	3.0
8	AI	124	PRO	2.9
27	DE	110	SER	2.9
2	AC	99	GLN	2.9
8	AI	62	LEU	2.9
12	CM	43	LYS	2.9
26	DD	126	ASN	2.9
30	DH	3	VAL	2.9
41	BT	96	VAL	2.9
50	D3	46	LYS	2.9
52	BI	69	VAL	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	BH	102	ALA	2.9
31	BJ	88	THR	2.9
39	BR	19	THR	2.9
8	CI	40	ARG	2.9
25	BC	202	ARG	2.9
45	DY	37	ARG	2.9
27	DE	55	SER	2.9
41	DT	32	LEU	2.9
52	BI	27	LEU	2.9
7	CH	9	MET	2.9
26	DD	17	GLU	2.9
29	DG	58	ALA	2.9
33	DL	51	GLU	2.9
52	BI	84	GLY	2.9
34	BM	64	TRP	2.9
52	BI	72	THR	2.9
46	BZ	67	PRO	2.9
42	BU	58	VAL	2.9
39	DR	80	ARG	2.9
34	DM	13	HIS	2.9
7	CH	44	PHE	2.9
8	CI	65	THR	2.9
26	BD	52	THR	2.9
46	DZ	13	THR	2.9
49	D2	45	SER	2.9
3	AD	153	ARG	2.9
11	AL	25	ALA	2.9
19	AT	9	ARG	2.9
46	DZ	9	TYR	2.9
18	CS	58	PRO	2.9
29	DG	53	PRO	2.9
52	DI	8	VAL	2.9
6	CG	8	GLN	2.9
33	DL	42	SER	2.9
12	CM	31	ALA	2.9
48	D1	18	HIS	2.9
29	BG	11	PRO	2.9
37	DP	60	VAL	2.9
33	DL	102	GLY	2.9
2	AC	82	ASP	2.9
39	DR	83	TYR	2.9
1	AA	82	G	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	DL	70	LYS	2.9
37	DP	74	GLN	2.9
40	DS	66	ILE	2.9
46	DZ	45	THR	2.9
12	AM	29	SER	2.9
26	DD	75	ALA	2.9
6	CG	20	GLU	2.9
26	BD	28	GLU	2.9
18	AS	65	MET	2.9
20	AB	159	ALA	2.9
26	BD	130	GLN	2.9
28	DF	33	ILE	2.9
29	BG	160	GLY	2.9
30	DH	140	ALA	2.9
23	BB	1074	G	2.9
3	AD	20	LEU	2.9
15	AP	6	LEU	2.9
28	DF	15	LEU	2.9
50	D3	13	PHE	2.9
9	AJ	36	VAL	2.9
30	DH	128	HIS	2.9
37	BP	114	ASN	2.9
46	BZ	33	ASN	2.9
24	BV	63	ILE	2.9
2	AC	159	ALA	2.9
38	DQ	51	GLN	2.9
39	DR	29	THR	2.9
39	DR	79	ARG	2.9
46	DZ	59	ARG	2.9
16	AQ	43	LEU	2.9
50	B3	24	LYS	2.9
52	DI	10	LEU	2.9
7	CH	78	SER	2.9
29	BG	105	SER	2.9
42	DU	99	SER	2.9
26	BD	170	VAL	2.9
27	BE	186	VAL	2.9
50	B3	42	HIS	2.9
23	DB	846	U	2.9
33	BL	103	ILE	2.9
52	BI	100	ILE	2.9
9	CJ	34	ALA	2.9

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
25	DC	10	PRO	2.9
43	DW	39	GLN	2.9
8	CI	18	VAL	2.9
3	AD	120	LYS	2.8
5	AF	51	ILE	2.8
37	DP	63	ILE	2.8
45	BY	13	ILE	2.8
50	D3	44	ARG	2.9
37	DP	65	ASN	2.8
51	D4	13	ASN	2.8
42	BU	40	LEU	2.8
52	DI	35	MET	2.8
42	DU	76	THR	2.8
48	B1	6	GLU	2.8
31	BJ	75	TYR	2.8
19	CT	63	LYS	2.8
42	DU	6	ARG	2.8
39	BR	56	GLY	2.8
41	DT	97	GLY	2.8
20	CB	147	LEU	2.8
34	DM	92	TRP	2.8
41	DT	61	LEU	2.8
52	DI	11	GLN	2.8
52	DI	124	MET	2.8
23	BB	2402	U	2.8
5	CF	86	ARG	2.8
9	CJ	51	VAL	2.8
33	DL	85	VAL	2.8
36	DO	103	VAL	2.8
48	D1	46	VAL	2.8
6	AG	37	THR	2.8
17	AR	63	TYR	2.8
18	CS	62	THR	2.8
23	BB	2138	G	2.8
25	DC	190	THR	2.8
33	DL	141	LYS	2.8
47	D0	22	THR	2.8
51	B4	2	LYS	2.8
13	AN	57	SER	2.8
26	BD	146	ILE	2.8
35	DN	59	SER	2.8
48	B1	18	HIS	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
52	DI	54	ILE	2.8
39	DR	62	GLU	2.8
2	AC	195	ILE	2.8
7	AH	100	ILE	2.8
44	BX	34	SER	2.8
2	AC	179	ALA	2.8
37	BP	94	ALA	2.8
7	AH	17	GLN	2.8
46	DZ	22	MET	2.8
8	AI	128	LYS	2.8
18	AS	17	LYS	2.8
30	DH	43	ASN	2.8
27	BE	17	THR	2.8
13	AN	70	HIS	2.8
27	BE	40	ARG	2.8
31	DJ	86	GLN	2.8
49	B2	37	LYS	2.8
52	DI	29	GLN	2.8
50	B3	57	VAL	2.8
19	CT	52	GLU	2.8
35	BN	16	HIS	2.8
25	BC	114	GLN	2.8
28	DF	30	VAL	2.8
7	AH	5	PRO	2.8
2	AC	9	ILE	2.8
18	AS	42	ASN	2.8
33	DL	107	PHE	2.8
36	DO	92	PHE	2.8
49	B2	28	ARG	2.8
25	BC	154	ALA	2.8
29	BG	164	ALA	2.8
20	CB	69	VAL	2.8
23	BB	1728	C	2.8
45	DY	11	SER	2.8
15	CP	10	GLY	2.8
25	DC	246	PRO	2.8
27	BE	123	LYS	2.8
33	DL	56	PRO	2.8
37	DP	92	ARG	2.8
52	DI	22	PRO	2.8
30	BH	117	LEU	2.8
30	DH	67	ALA	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
52	DI	43	ALA	2.8
18	AS	68	HIS	2.8
41	BT	57	VAL	2.8
26	BD	131	ASP	2.8
3	AD	107	GLY	2.8
7	AH	28	SER	2.8
25	BC	51	ARG	2.8
28	DF	75	GLY	2.8
32	DK	14	SER	2.8
41	BT	65	GLY	2.8
52	BI	91	LYS	2.8
20	AB	95	TRP	2.8
28	BF	7	TYR	2.8
52	BI	55	PRO	2.8
52	DI	56	VAL	2.8
29	BG	157	LYS	2.8
49	B2	41	ARG	2.8
49	B2	43	THR	2.8
52	DI	71	LYS	2.8
20	AB	161	PHE	2.8
36	DO	40	ILE	2.8
1	CA	1033	G	2.8
52	DI	55	PRO	2.8
3	AD	1	ALA	2.8
36	BO	78	VAL	2.8
13	AN	71	GLY	2.8
18	AS	10	ILE	2.8
25	DC	139	THR	2.8
29	BG	59	ASP	2.8
43	BW	80	SER	2.8
48	D1	13	SER	2.8
10	AK	88	PRO	2.8
2	AC	75	VAL	2.8
10	CK	125	LYS	2.8
23	DB	101	A	2.8
14	AO	66	LEU	2.7
20	AB	66	ILE	2.7
34	BM	130	PHE	2.7
50	D3	20	GLY	2.7
27	DE	122	GLU	2.7
12	AM	84	CYS	2.7
15	AP	68	SER	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
34	BM	101	VAL	2.7
34	BM	22	GLN	2.7
46	DZ	48	GLN	2.7
33	BL	3	LEU	2.7
29	BG	113	ASP	2.7
29	DG	38	ASP	2.7
52	DI	67	THR	2.7
20	AB	8	MET	2.7
2	CC	36	PHE	2.7
14	AO	34	GLN	2.7
25	BC	116	GLN	2.7
42	BU	52	ASN	2.7
18	AS	28	LYS	2.7
44	BX	8	GLU	2.7
44	DX	42	LEU	2.7
34	DM	38	ARG	2.7
50	B3	30	HIS	2.7
20	CB	162	VAL	2.7
26	BD	54	ALA	2.7
39	BR	42	ALA	2.7
2	AC	154	GLY	2.7
5	AF	62	MET	2.7
24	BV	4	ILE	2.7
30	DH	29	PHE	2.7
33	BL	102	GLY	2.7
41	DT	95	PHE	2.7
52	BI	28	GLY	2.7
43	BW	11	ASN	2.7
18	CS	13	HIS	2.7
49	D2	16	HIS	2.7
25	DC	160	TYR	2.7
29	BG	101	VAL	2.7
52	BI	32	VAL	2.7
12	AM	114	PRO	2.7
30	BH	140	ALA	2.7
52	DI	117	THR	2.7
19	CT	70	LYS	2.7
41	BT	64	LYS	2.7
42	BU	60	LYS	2.7
52	DI	20	SER	2.7
3	AD	151	GLN	2.7
4	CE	11	GLN	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
11	CL	93	ARG	2.7
18	AS	55	GLN	2.7
29	DG	106	LEU	2.7
44	DX	21	LEU	2.7
1	CA	1043	G	2.7
48	D1	41	VAL	2.7
42	DU	7	ASP	2.7
14	AO	21	THR	2.7
34	BM	66	ARG	2.7
35	BN	70	THR	2.7
1	AA	1317	C	2.7
3	AD	22	SER	2.7
8	AI	92	SER	2.7
13	AN	54	SER	2.7
28	BF	65	LEU	2.7
47	B0	28	SER	2.7
27	BE	136	GLN	2.7
2	AC	18	ASN	2.7
7	AH	71	VAL	2.7
21	AU	37	TYR	2.7
25	DC	44	ASN	2.7
27	DE	184	ASP	2.7
18	CS	39	ILE	2.7
21	AU	35	GLU	2.7
28	BF	56	LEU	2.7
31	DJ	110	PRO	2.7
20	AB	27	LYS	2.7
8	CI	37	TYR	2.7
29	DG	3	VAL	2.7
41	BT	85	VAL	2.7
49	D2	37	LYS	2.7
11	CL	85	ARG	2.7
17	CR	22	TYR	2.7
8	CI	126	PHE	2.7
20	AB	193	ASP	2.7
52	BI	135	MET	2.7
9	AJ	50	THR	2.7
34	DM	60	GLN	2.7
52	BI	127	SER	2.7
52	DI	106	GLN	2.7
9	AJ	62	ARG	2.7
10	CK	128	VAL	2.7

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	BO	9	ARG	2.7
5	AF	6	ILE	2.7
39	DR	60	LYS	2.7
8	CI	42	THR	2.7
38	DQ	87	VAL	2.7
31	DJ	4	PHE	2.7
26	DD	204	LYS	2.7
23	BB	62	U	2.7
41	DT	6	ARG	2.7
1	AA	1441	A	2.7
7	AH	115	ALA	2.7
39	BR	93	PHE	2.7
43	BW	44	PHE	2.7
52	DI	108	ILE	2.7
42	BU	85	ARG	2.7
25	DC	162	GLN	2.7
27	BE	171	ASP	2.7
17	AR	22	TYR	2.6
1	CA	1441	A	2.6
20	AB	156	LEU	2.6
26	BD	56	LYS	2.6
33	DL	109	LYS	2.6
34	BM	31	PHE	2.6
33	BL	135	ILE	2.6
52	BI	51	GLY	2.6
19	AT	28	ARG	2.6
10	CK	108	ASN	2.6
3	AD	44	LYS	2.6
9	AJ	91	ASP	2.6
31	DJ	15	TRP	2.6
41	DT	48	GLN	2.6
42	BU	41	VAL	2.6
8	CI	83	THR	2.6
41	DT	35	ALA	2.6
52	DI	40	ALA	2.6
52	DI	105	LEU	2.6
7	CH	125	ILE	2.6
19	CT	82	ILE	2.6
25	DC	199	HIS	2.6
1	AA	1493	A	2.6
52	DI	16	MET	2.6
14	AO	26	VAL	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
43	DW	63	ASP	2.6
3	AD	196	GLU	2.6
4	AE	35	LEU	2.6
18	AS	79	TYR	2.6
6	AG	144	ALA	2.6
36	DO	65	THR	2.6
46	DZ	6	HIS	2.6
37	DP	110	LYS	2.6
52	DI	69	VAL	2.6
20	AB	35	ASN	2.6
9	AJ	63	ASP	2.6
17	CR	71	ASP	2.6
26	BD	18	ASP	2.6
27	BE	199	MET	2.6
43	BW	57	THR	2.6
18	CS	46	LEU	2.6
38	BQ	35	PHE	2.6
39	BR	43	ASN	2.6
45	DY	8	GLN	2.6
46	DZ	44	PHE	2.6
48	D1	44	GLN	2.6
21	CU	12	ASP	2.6
30	DH	35	LYS	2.6
29	BG	24	THR	2.6
39	DR	89	HIS	2.6
47	B0	25	THR	2.6
7	CH	1	SER	2.6
6	AG	29	LEU	2.6
15	CP	38	PHE	2.6
34	BM	117	PHE	2.6
28	BF	144	LYS	2.6
47	D0	48	TYR	2.6
2	CC	189	HIS	2.6
8	CI	56	MET	2.6
11	CL	95	HIS	2.6
18	CS	61	VAL	2.6
42	BU	66	VAL	2.6
7	CH	123	GLU	2.6
17	AR	19	GLU	2.6
6	AG	80	GLY	2.6
45	BY	8	GLN	2.6
7	CH	127	TYR	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
16	AQ	60	ILE	2.6
18	AS	39	ILE	2.6
52	DI	73	PRO	2.6
38	DQ	32	ARG	2.6
41	DT	73	ARG	2.6
37	BP	42	PHE	2.6
51	D4	8	LYS	2.6
52	DI	41	PHE	2.6
28	DF	67	THR	2.6
31	DJ	88	THR	2.6
9	AJ	76	ILE	2.6
16	AQ	37	ILE	2.6
41	BT	35	ALA	2.6
44	DX	48	ARG	2.6
6	AG	5	VAL	2.6
4	CE	12	GLU	2.6
18	AS	80	ARG	2.6
30	DH	36	ALA	2.6
30	DH	82	SER	2.6
35	DN	25	ALA	2.6
18	AS	41	PRO	2.6
26	DD	42	ASN	2.6
42	DU	20	LYS	2.6
30	BH	60	GLU	2.6
31	BJ	4	PHE	2.6
40	DS	23	LEU	2.6
31	BJ	80	HIS	2.6
6	CG	77	ARG	2.6
37	DP	20	ARG	2.6
8	AI	20	ILE	2.6
6	CG	60	ALA	2.6
34	BM	133	LYS	2.6
38	DQ	112	ALA	2.6
44	DX	40	SER	2.6
29	DG	167	VAL	2.6
7	CH	39	LEU	2.6
9	AJ	27	GLU	2.6
21	CU	28	LEU	2.6
28	BF	37	MET	2.6
50	D3	27	ASN	2.6
23	BB	2140	G	2.6
8	AI	27	ILE	2.6

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
25	BC	59	GLN	2.6
26	DD	36	GLN	2.6
26	DD	197	THR	2.6
28	BF	86	CYS	2.6
26	BD	100	LEU	2.5
48	B1	50	GLU	2.6
26	DD	128	ARG	2.5
28	BF	141	ASP	2.5
26	DD	76	GLY	2.5
13	AN	22	LYS	2.5
31	BJ	87	ALA	2.5
8	AI	47	VAL	2.5
37	BP	85	VAL	2.5
46	BZ	9	TYR	2.5
28	BF	154	THR	2.5
24	BV	61	LEU	2.5
30	BH	70	GLU	2.5
33	BL	64	PHE	2.5
26	BD	116	LYS	2.5
37	DP	36	LYS	2.5
35	BN	3	HIS	2.5
42	DU	11	ILE	2.5
15	AP	19	VAL	2.5
27	BE	192	ALA	2.5
29	DG	161	VAL	2.5
52	BI	123	ALA	2.5
33	DL	47	ARG	2.5
30	DH	75	LEU	2.5
39	DR	85	LYS	2.5
42	DU	89	GLY	2.5
33	BL	73	ILE	2.5
24	BV	82	TYR	2.5
33	BL	75	ALA	2.5
41	BT	84	TYR	2.5
21	AU	4	LYS	2.5
41	BT	36	LYS	2.5
18	AS	75	PRO	2.5
47	D0	28	SER	2.5
49	B2	8	SER	2.5
11	CL	81	ILE	2.5
42	BU	11	ILE	2.5
8	CI	48	ARG	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
9	AJ	64	GLN	2.5
32	BK	78	ARG	2.5
11	CL	37	TYR	2.5
26	DD	26	VAL	2.5
29	BG	3	VAL	2.5
37	BP	46	VAL	2.5
4	CE	130	THR	2.5
25	DC	21	PRO	2.5
6	CG	108	ARG	2.5
7	CH	74	ILE	2.5
13	AN	58	ARG	2.5
19	CT	31	ILE	2.5
27	BE	43	THR	2.5
39	DR	68	ARG	2.5
40	DS	110	ARG	2.5
41	DT	30	ILE	2.5
48	D1	21	THR	2.5
9	AJ	10	LEU	2.5
18	AS	70	LEU	2.5
25	BC	225	ASN	2.5
26	DD	94	GLN	2.5
30	DH	110	VAL	2.5
30	DH	137	GLU	2.5
33	BL	36	LYS	2.5
37	BP	48	ALA	2.5
39	BR	86	GLN	2.5
41	BT	34	VAL	2.5
27	DE	143	LEU	2.5
52	DI	33	ASN	2.5
9	AJ	38	GLY	2.5
7	AH	6	ILE	2.5
40	BS	74	ILE	2.5
36	DO	52	SER	2.5
52	BI	80	LYS	2.5
30	DH	133	GLN	2.5
41	BT	58	VAL	2.5
42	DU	95	PHE	2.5
3	AD	147	LYS	2.5
3	AD	194	ILE	2.5
39	BR	45	GLU	2.5
8	AI	19	PHE	2.5
52	BI	67	THR	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
26	DD	13	ARG	2.5
37	BP	71	ARG	2.5
51	D4	36	ARG	2.5
8	AI	39	GLY	2.5
12	AM	80	MET	2.5
30	DH	13	GLY	2.5
5	CF	51	ILE	2.5
8	CI	20	ILE	2.5
23	DB	1460	U	2.5
28	BF	155	ILE	2.5
24	DV	72	VAL	2.5
26	DD	88	GLU	2.5
46	BZ	10	GLU	2.5
14	CO	24	THR	2.5
28	BF	111	ARG	2.5
38	DQ	43	GLN	2.5
48	D1	20	TYR	2.5
52	BI	45	THR	2.5
2	AC	92	ASP	2.5
31	DJ	40	HIS	2.5
2	AC	181	ILE	2.5
12	AM	74	MET	2.5
20	CB	150	ILE	2.5
37	DP	47	ILE	2.5
19	CT	57	VAL	2.5
29	DG	40	VAL	2.5
39	DR	64	VAL	2.5
52	DI	77	VAL	2.5
1	AA	995	C	2.5
10	AK	87	GLY	2.5
13	AN	53	ASP	2.5
19	AT	19	HIS	2.5
30	DH	113	SER	2.5
12	CM	32	ILE	2.5
46	DZ	5	ILE	2.5
52	BI	34	ILE	2.5
2	AC	45	GLU	2.5
41	DT	3	ARG	2.5
1	AA	205	A	2.5
23	BB	1509	A	2.5
36	BO	36	TYR	2.5
52	BI	38	CYS	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	AA	1533	C	2.5
4	AE	21	SER	2.5
45	BY	19	HIS	2.5
2	CC	56	ILE	2.5
3	AD	34	GLU	2.5
9	AJ	68	ARG	2.5
8	AI	51	LEU	2.5
12	CM	12	LYS	2.5
17	AR	66	LEU	2.5
38	DQ	84	LYS	2.5
51	B4	8	LYS	2.5
15	CP	57	ILE	2.4
25	DC	57	HIS	2.4
30	DH	99	ILE	2.4
42	DU	44	HIS	2.4
9	AJ	74	VAL	2.4
37	BP	95	LYS	2.4
30	BH	36	ALA	2.4
3	AD	5	GLY	2.4
13	AN	65	GLN	2.4
20	AB	123	GLY	2.4
33	BL	24	GLY	2.4
1	CA	84	U	2.4
11	AL	11	ARG	2.4
12	CM	38	ILE	2.4
3	AD	11	SER	2.4
38	BQ	88	GLU	2.4
8	CI	117	LEU	2.4
14	AO	20	ASP	2.4
52	BI	46	ASP	2.4
30	DH	73	ASN	2.4
18	CS	45	GLY	2.4
29	BG	162	ARG	2.4
33	BL	124	GLY	2.4
34	DM	103	TYR	2.4
7	CH	103	VAL	2.4
36	DO	29	HIS	2.4
14	AO	1	SER	2.4
27	BE	125	SER	2.4
30	BH	6	LEU	2.4
52	DI	32	VAL	2.4
42	BU	80	ASP	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
8	CI	16	ALA	2.4
12	CM	4	ALA	2.4
42	DU	52	ASN	2.4
44	DX	63	ALA	2.4
38	BQ	58	GLN	2.4
39	BR	79	ARG	2.4
1	AA	80	A	2.4
27	BE	59	PRO	2.4
50	D3	22	LYS	2.4
7	CH	124	ILE	2.4
26	DD	2	ILE	2.4
43	BW	66	VAL	2.4
52	BI	12	VAL	2.4
27	BE	7	ASP	2.4
28	BF	157	THR	2.4
9	CJ	12	ALA	2.4
11	AL	12	ALA	2.4
19	AT	17	ARG	2.4
46	DZ	8	LYS	2.4
12	AM	38	ILE	2.4
26	DD	48	ILE	2.4
31	DJ	46	PRO	2.4
34	BM	97	GLN	2.4
37	BP	9	GLN	2.4
2	CC	21	TRP	2.4
23	BB	1726	C	2.4
35	BN	98	LEU	2.4
36	BO	21	LEU	2.4
41	BT	80	TRP	2.4
25	BC	126	GLY	2.4
26	BD	166	GLY	2.4
41	BT	71	GLY	2.4
3	AD	27	ILE	2.4
25	BC	243	PRO	2.4
8	CI	46	VAL	2.4
16	AQ	57	VAL	2.4
13	CN	52	ARG	2.4
48	B1	5	ARG	2.4
9	AJ	28	THR	2.4
26	BD	43	ASP	2.4
46	DZ	31	ASP	2.4
52	DI	59	THR	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
13	AN	3	GLN	2.4
52	BI	121	ILE	2.4
26	DD	32	ASN	2.4
41	DT	11	LEU	2.4
42	BU	12	VAL	2.4
42	BU	94	PHE	2.4
6	CG	69	ARG	2.4
45	DY	28	LEU	2.4
7	CH	122	GLY	2.4
12	CM	1	ALA	2.4
52	BI	136	GLY	2.4
30	BH	125	THR	2.4
6	CG	119	LEU	2.4
8	CI	38	PHE	2.4
14	AO	38	LEU	2.4
14	AO	69	LEU	2.4
33	BL	21	ARG	2.4
52	DI	2	LYS	2.4
4	AE	72	ASN	2.4
12	CM	9	PRO	2.4
16	CQ	81	ALA	2.4
27	DE	42	GLY	2.4
41	BT	13	ALA	2.4
52	DI	62	ALA	2.4
5	CF	91	ARG	2.4
10	AK	79	LYS	2.4
12	AM	92	ARG	2.4
16	CQ	8	GLN	2.4
20	AB	122	ASP	2.4
28	DF	137	PHE	2.4
35	BN	9	GLN	2.4
39	DR	86	GLN	2.4
2	AC	23	ALA	2.4
33	BL	86	GLU	2.4
33	DL	20	GLY	2.4
33	DL	34	GLY	2.4
52	BI	9	LYS	2.4
52	DI	17	ALA	2.4
3	AD	122	ILE	2.4
10	CK	126	ARG	2.4
32	BK	77	ILE	2.4
33	DL	18	ARG	2.4

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
35	BN	64	ARG	2.4
18	CS	30	LEU	2.4
26	BD	203	VAL	2.4
35	BN	51	LEU	2.4
44	BX	14	LEU	2.4
3	AD	29	THR	2.4
7	AH	9	MET	2.4
9	CJ	50	THR	2.4
28	BF	64	PRO	2.4
21	AU	23	GLU	2.4
37	BP	30	TRP	2.4
37	BP	43	GLU	2.4
6	AG	46	LEU	2.4
13	AN	15	LEU	2.4
30	DH	94	ILE	2.4
26	DD	203	VAL	2.4
37	BP	72	VAL	2.4
27	BE	132	LYS	2.3
51	B4	19	ARG	2.3
2	AC	136	ALA	2.3
7	AH	114	ALA	2.3
25	DC	178	GLY	2.3
24	BV	56	PHE	2.3
44	DX	41	HIS	2.3
42	DU	33	VAL	2.3
7	CH	75	GLN	2.3
11	AL	110	LYS	2.3
6	AG	82	SER	2.3
8	AI	112	ARG	2.3
43	BW	40	ARG	2.3
44	DX	30	MET	2.3
28	BF	72	SER	2.3
31	DJ	6	ALA	2.3
32	BK	21	CYS	2.3
32	BK	34	GLY	2.3
34	BM	37	GLY	2.3
41	DT	60	THR	2.3
9	AJ	8	ILE	2.3
37	BP	19	PHE	2.3
52	DI	18	ASN	2.3
19	CT	58	ASP	2.3
27	DE	116	ASP	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AD	204	SER	2.3
4	AE	90	GLY	2.3
6	AG	81	GLY	2.3
7	AH	27	PRO	2.3
7	AH	92	PRO	2.3
13	AN	79	SER	2.3
18	AS	32	THR	2.3
29	BG	73	SER	2.3
4	CE	114	LEU	2.3
9	AJ	61	ALA	2.3
24	DV	91	PHE	2.3
47	B0	8	THR	2.3
45	BY	31	ILE	2.3
12	AM	59	VAL	2.3
18	CS	22	VAL	2.3
20	CB	17	HIS	2.3
50	D3	38	LYS	2.3
3	AD	103	ARG	2.3
14	AO	57	ARG	2.3
17	AR	60	ARG	2.3
19	AT	23	ARG	2.3
30	DH	51	ARG	2.3
16	CQ	51	GLU	2.3
30	DH	107	GLY	2.3
6	CG	41	ILE	2.3
8	AI	65	THR	2.3
20	AB	163	ILE	2.3
25	BC	222	THR	2.3
31	DJ	89	PHE	2.3
26	BD	55	LYS	2.3
33	BL	111	ILE	2.3
36	BO	95	SER	2.3
42	DU	30	SER	2.3
8	AI	30	ASN	2.3
13	CN	23	ARG	2.3
21	CU	20	ARG	2.3
31	DJ	13	ARG	2.3
34	BM	67	VAL	2.3
35	BN	69	ARG	2.3
36	BO	28	VAL	2.3
37	BP	45	VAL	2.3
36	BO	99	TYR	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
50	B3	48	MET	2.3
43	DW	51	GLY	2.3
6	CG	64	ALA	2.3
19	CT	66	ILE	2.3
23	BB	2141	G	2.3
24	BV	83	LYS	2.3
30	DH	47	PHE	2.3
37	BP	13	LYS	2.3
39	DR	25	LEU	2.3
30	DH	121	VAL	2.3
33	BL	69	ARG	2.3
39	BR	68	ARG	2.3
44	BX	11	VAL	2.3
52	DI	19	PRO	2.3
18	CS	47	THR	2.3
25	BC	37	SER	2.3
25	BC	250	GLN	2.3
19	AT	18	LYS	2.3
52	BI	130	GLY	2.3
3	AD	10	LEU	2.3
14	CO	2	LEU	2.3
15	AP	67	ILE	2.3
19	AT	65	LEU	2.3
21	CU	6	ARG	2.3
26	BD	46	ARG	2.3
27	DE	138	LEU	2.3
15	CP	36	VAL	2.3
28	DF	44	ALA	2.3
31	DJ	19	ASP	2.3
35	DN	69	ARG	2.3
36	BO	79	ALA	2.3
46	DZ	43	PHE	2.3
18	CS	41	PRO	2.3
34	DM	4	PRO	2.3
12	CM	29	SER	2.3
23	DB	1537	G	2.3
36	DO	53	THR	2.3
45	BY	40	THR	2.3
2	AC	77	GLY	2.3
31	DJ	7	LYS	2.3
36	DO	88	LYS	2.3
19	CT	23	ARG	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
5	CF	95	ALA	2.3
8	CI	63	TYR	2.3
31	BJ	123	LYS	2.3
39	DR	81	LYS	2.3
2	AC	156	LEU	2.3
3	AD	106	PHE	2.3
7	AH	31	LEU	2.3
30	DH	54	LEU	2.3
2	AC	150	VAL	2.3
2	CC	70	ALA	2.3
29	BG	12	ALA	2.3
30	DH	81	ALA	2.3
7	CH	112	ASP	2.3
52	DI	115	ASP	2.3
2	AC	167	TYR	2.3
13	CN	58	ARG	2.3
14	AO	51	SER	2.3
18	AS	56	HIS	2.3
25	DC	166	ARG	2.3
38	DQ	31	TYR	2.3
41	DT	15	HIS	2.3
51	B4	36	ARG	2.3
20	AB	56	LEU	2.3
8	CI	110	VAL	2.3
18	AS	61	VAL	2.3
32	BK	39	ILE	2.3
20	AB	215	ALA	2.3
52	BI	114	ALA	2.3
4	AE	9	GLU	2.3
6	AG	15	PRO	2.3
12	CM	2	ARG	2.3
21	AU	40	PRO	2.3
30	BH	129	GLU	2.3
33	BL	33	ARG	2.3
52	BI	22	PRO	2.3
2	CC	156	LEU	2.3
15	CP	68	SER	2.3
26	BD	112	THR	2.3
26	BD	165	MET	2.3
30	DH	131	SER	2.3
36	BO	116	GLN	2.3
52	BI	98	GLY	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
3	AD	60	VAL	2.3
6	AG	90	VAL	2.3
26	BD	27	ILE	2.3
7	AH	101	ALA	2.3
24	BV	94	ALA	2.3
52	DI	103	ALA	2.3
8	AI	123	ARG	2.3
52	DI	64	ARG	2.3
4	AE	10	LEU	2.3
19	CT	30	PHE	2.3
26	DD	72	GLY	2.3
36	BO	29	HIS	2.3
39	DR	6	GLN	2.3
41	BT	51	PHE	2.3
24	BV	30	ILE	2.3
29	BG	33	THR	2.3
33	BL	72	ALA	2.2
35	BN	73	ASN	2.2
35	BN	120	GLU	2.2
38	DQ	88	GLU	2.2
1	AA	880	C	2.2
26	DD	103	ASP	2.2
25	BC	204	LEU	2.2
36	BO	18	LEU	2.2
27	DE	119	ILE	2.2
45	DY	53	MET	2.2
26	BD	13	ARG	2.2
28	BF	117	SER	2.2
31	BJ	133	ALA	2.2
36	DO	5	SER	2.2
38	BQ	49	ARG	2.2
40	BS	92	ARG	2.2
43	DW	40	ARG	2.2
45	BY	29	ARG	2.2
41	DT	56	GLU	2.2
46	DZ	11	GLU	2.2
11	CL	68	GLY	2.2
35	BN	79	LEU	2.2
43	BW	63	ASP	2.2
46	BZ	32	LEU	2.2
4	CE	63	MET	2.2
33	BL	104	GLN	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
36	DO	13	ARG	2.2
2	CC	200	TRP	2.2
23	BB	846	U	2.2
26	BD	145	SER	2.2
34	DM	47	GLU	2.2
37	BP	35	SER	2.2
47	D0	10	SER	2.2
1	CA	412	A	2.2
12	CM	110	GLY	2.2
29	BG	106	LEU	2.2
47	B0	46	GLY	2.2
12	AM	99	GLN	2.2
25	BC	211	ARG	2.2
25	BC	266	ILE	2.2
32	DK	71	ARG	2.2
42	BU	82	VAL	2.2
3	AD	121	ALA	2.2
6	AG	102	TRP	2.2
9	AJ	30	LYS	2.2
20	AB	109	SER	2.2
30	DH	96	THR	2.2
20	CB	160	LEU	2.2
34	DM	37	GLY	2.2
32	BK	84	CYS	2.2
2	AC	133	MET	2.2
5	CF	62	MET	2.2
10	CK	17	ASP	2.2
43	BW	36	ILE	2.2
23	BB	2152	G	2.2
8	CI	118	ARG	2.2
21	CU	44	ARG	2.2
32	BK	104	THR	2.2
35	BN	21	PHE	2.2
41	DT	77	ARG	2.2
43	DW	80	SER	2.2
52	BI	37	PHE	2.2
25	DC	224	MET	2.2
27	DE	175	ILE	2.2
37	BP	2	ASN	2.2
40	DS	4	ILE	2.2
42	DU	41	VAL	2.2
2	AC	180	ASP	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
6	AG	85	GLN	2.2
6	CG	24	LYS	2.2
11	AL	24	GLU	2.2
27	DE	90	GLN	2.2
30	DH	41	LYS	2.2
33	DL	54	GLN	2.2
42	DU	47	PRO	2.2
49	D2	22	MET	2.2
36	DO	20	GLU	2.2
41	BT	33	LYS	2.2
19	CT	10	ALA	2.2
23	DB	2602	A	2.2
25	DC	261	ARG	2.2
45	BY	10	ARG	2.2
9	AJ	73	LEU	2.2
15	CP	54	LEU	2.2
26	BD	93	GLY	2.2
26	BD	198	GLY	2.2
33	BL	112	LEU	2.2
41	BT	90	GLY	2.2
16	AQ	58	VAL	2.2
20	AB	39	ILE	2.2
29	BG	50	THR	2.2
29	DG	57	TYR	2.2
31	BJ	73	VAL	2.2
33	BL	58	TYR	2.2
7	AH	37	ASN	2.2
23	BB	1174	U	2.2
33	BL	116	VAL	2.2
11	CL	90	PRO	2.2
21	AU	10	PRO	2.2
51	B4	31	PRO	2.2
30	BH	59	ALA	2.2
43	BW	62	ALA	2.2
27	BE	165	HIS	2.2
45	DY	33	HIS	2.2
8	CI	9	GLY	2.2
35	DN	98	LEU	2.2
1	AA	845	A	2.2
2	AC	152	VAL	2.2
7	AH	45	ILE	2.2
35	BN	47	VAL	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
41	DT	43	ILE	2.2
3	AD	104	MET	2.2
5	CF	92	THR	2.2
29	BG	41	GLU	2.2
20	CB	159	ALA	2.2
26	DD	152	PRO	2.2
38	DQ	19	GLN	2.2
35	BN	25	ALA	2.2
39	BR	90	ARG	2.2
46	DZ	49	ARG	2.2
48	D1	51	ALA	2.2
50	B3	45	PRO	2.2
29	BG	38	ASP	2.2
9	AJ	71	LEU	2.2
14	AO	65	LEU	2.2
24	DV	61	LEU	2.2
50	D3	56	LEU	2.2
25	DC	187	CYS	2.2
25	DC	171	VAL	2.2
42	DU	92	VAL	2.2
48	D1	28	THR	2.2
11	CL	19	ASN	2.2
27	BE	86	ALA	2.2
36	BO	70	ALA	2.2
41	BT	83	ALA	2.2
23	DB	2833	U	2.2
6	CG	112	ASP	2.2
6	AG	73	GLU	2.2
13	AN	29	ILE	2.2
39	BR	51	VAL	2.2
41	BT	30	ILE	2.2
50	B3	3	ILE	2.2
52	DI	34	ILE	2.2
20	CB	33	ALA	2.2
13	AN	34	ASN	2.2
15	CP	15	PRO	2.2
17	AR	64	LEU	2.2
27	DE	95	LYS	2.2
27	DE	201	ALA	2.2
34	DM	102	LEU	2.2
28	BF	75	GLY	2.2
10	AK	73	VAL	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
24	BV	72	VAL	2.2
25	DC	136	VAL	2.2
37	DP	87	ARG	2.2
3	AD	82	LYS	2.2
11	CL	12	ALA	2.2
16	CQ	29	LYS	2.2
20	AB	200	PRO	2.2
29	DG	36	LEU	2.2
32	BK	79	PHE	2.2
52	BI	109	ALA	2.2
31	BJ	82	GLY	2.2
8	CI	54	VAL	2.2
9	AJ	37	ARG	2.2
29	BG	114	HIS	2.2
2	AC	160	GLU	2.1
13	AN	33	VAL	2.2
32	BK	35	VAL	2.2
34	BM	131	VAL	2.2
43	BW	56	HIS	2.2
23	DB	100	U	2.1
50	B3	6	VAL	2.2
52	BI	120	ASP	2.2
30	BH	114	GLU	2.1
5	CF	59	TYR	2.1
31	BJ	85	LYS	2.1
38	BQ	36	GLN	2.1
40	DS	46	LEU	2.1
44	BX	6	LEU	2.1
50	B3	10	ALA	2.1
4	CE	118	GLY	2.1
25	BC	251	THR	2.1
37	DP	88	ARG	2.1
6	CG	42	VAL	2.1
11	AL	118	VAL	2.1
20	AB	41	ASN	2.1
24	DV	4	ILE	2.1
25	DC	238	ASN	2.1
26	BD	5	VAL	2.1
26	DD	43	ASP	2.1
28	DF	84	ILE	2.1
32	BK	89	ASN	2.1
29	DG	46	ASP	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
43	DW	36	ILE	2.1
46	DZ	35	ASP	2.1
19	AT	50	PHE	2.1
27	DE	87	ALA	2.1
28	BF	57	ALA	2.1
41	BT	11	LEU	2.1
44	BX	33	ALA	2.1
44	BX	36	GLN	2.1
46	DZ	60	PHE	2.1
29	BG	13	GLY	2.1
49	D2	19	ARG	2.1
50	B3	29	ARG	2.1
6	CG	79	VAL	2.1
7	AH	73	SER	2.1
52	DI	118	GLY	2.1
8	AI	66	VAL	2.1
10	CK	116	PRO	2.1
9	AJ	56	HIS	2.1
19	CT	3	ILE	2.1
33	DL	142	ILE	2.1
42	DU	35	VAL	2.1
1	AA	842	U	2.1
3	AD	177	MET	2.1
4	AE	110	MET	2.1
8	CI	49	GLN	2.1
26	BD	49	GLN	2.1
28	BF	149	ARG	2.1
1	AA	74	A	2.1
26	DD	81	GLU	2.1
41	BT	66	LYS	2.1
41	DT	14	PRO	2.1
9	AJ	44	THR	2.1
17	CR	21	ASP	2.1
7	AH	60	LEU	2.1
20	CB	125	PHE	2.1
33	DL	69	ARG	2.1
35	BN	10	LEU	2.1
6	CG	7	GLY	2.1
23	BB	1176	U	2.1
43	BW	41	GLY	2.1
8	AI	71	ILE	2.1
30	DH	144	VAL	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
33	DL	105	ILE	2.1
42	DU	10	VAL	2.1
50	B3	58	ILE	2.1
52	BI	56	VAL	2.1
23	BB	1057	A	2.1
31	BJ	125	TYR	2.1
44	DX	29	ARG	2.1
6	AG	14	ASP	2.1
25	BC	29	PHE	2.1
38	DQ	59	LEU	2.1
11	AL	43	LYS	2.1
52	DI	28	GLY	2.1
8	AI	18	VAL	2.1
9	AJ	25	ILE	2.1
23	BB	2180	U	2.1
26	DD	9	VAL	2.1
28	BF	103	ILE	2.1
33	DL	135	ILE	2.1
10	AK	92	ARG	2.1
20	AB	94	ARG	2.1
5	CF	4	TYR	2.1
5	CF	88	MET	2.1
18	CS	63	ASP	2.1
26	BD	129	THR	2.1
33	DL	30	THR	2.1
47	D0	52	LYS	2.1
51	B4	18	LYS	2.1
27	DE	163	ASN	2.1
33	BL	22	GLY	2.1
52	DI	113	ALA	2.1
3	AD	52	VAL	2.1
13	CN	44	VAL	2.1
16	AQ	62	GLU	2.1
27	DE	41	GLN	2.1
27	DE	198	GLU	2.1
29	BG	127	GLN	2.1
42	BU	27	VAL	2.1
30	BH	68	ARG	2.1
8	CI	114	LYS	2.1
17	CR	66	LEU	2.1
19	CT	15	LYS	2.1
52	BI	71	LYS	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	DP	111	GLU	2.1
38	BQ	117	ALA	2.1
1	AA	1241	G	2.1
8	CI	98	ARG	2.1
12	AM	70	ARG	2.1
21	CU	33	ARG	2.1
23	DB	1068	G	2.1
37	DP	109	ILE	2.1
1	CA	999	C	2.1
5	CF	74	LEU	2.1
17	AR	50	TYR	2.1
20	AB	24	PRO	2.1
20	AB	28	PRO	2.1
21	AU	36	PHE	2.1
23	DB	2790	U	2.1
37	DP	96	LEU	2.1
13	AN	88	MET	2.1
36	DO	34	HIS	2.1
5	AF	41	ASP	2.1
6	AG	86	VAL	2.1
9	AJ	47	GLU	2.1
13	AN	32	ASP	2.1
13	CN	12	ARG	2.1
21	CU	46	ARG	2.1
26	BD	87	GLY	2.1
44	DX	62	GLY	2.1
29	DG	128	THR	2.1
34	BM	93	VAL	2.1
12	AM	3	ILE	2.1
34	BM	63	ILE	2.1
1	CA	466	A	2.1
1	CA	975	A	2.1
16	CQ	27	PHE	2.1
23	DB	1098	A	2.1
32	BK	8	LEU	2.1
33	DL	57	LEU	2.1
25	BC	52	HIS	2.1
3	AD	129	VAL	2.1
26	BD	139	SER	2.1
26	DD	54	ALA	2.1
33	BL	106	GLU	2.1
29	BG	22	VAL	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
30	BH	103	VAL	2.1
34	BM	89	VAL	2.1
37	BP	91	VAL	2.1
50	B3	11	LYS	2.1
51	B4	17	VAL	2.1
6	CG	11	ILE	2.1
19	AT	69	ASN	2.1
25	DC	103	ILE	2.1
25	DC	114	GLN	2.1
52	DI	39	LYS	2.1
30	BH	11	ASN	2.1
10	CK	81	LEU	2.1
33	BL	59	ARG	2.1
3	AD	178	GLU	2.1
16	AQ	75	VAL	2.1
20	AB	17	HIS	2.1
20	AB	198	VAL	2.1
20	CB	52	ALA	2.1
27	BE	122	GLU	2.1
28	DF	163	GLU	2.1
40	DS	59	GLU	2.1
19	AT	38	ILE	2.1
23	BB	653	U	2.1
28	BF	145	VAL	2.1
34	DM	131	VAL	2.1
31	BJ	86	GLN	2.1
13	AN	42	ASN	2.1
18	CS	11	ASP	2.1
26	DD	136	ASN	2.1
41	BT	61	LEU	2.1
36	DO	9	ARG	2.1
51	B4	12	ARG	2.1
3	CD	37	PRO	2.1
29	DG	52	GLY	2.1
12	CM	15	VAL	2.1
13	AN	24	ALA	2.1
26	DD	134	HIS	2.0
8	AI	49	GLN	2.0
9	CJ	35	GLN	2.0
41	BT	21	SER	2.0
48	B1	44	GLN	2.0
5	AF	63	ASN	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
26	DD	52	THR	2.0
27	BE	88	ARG	2.0
29	BG	15	ASP	2.0
25	DC	259	ASN	2.0
30	BH	12	LEU	2.0
42	BU	7	ASP	2.0
43	DW	10	ARG	2.0
8	CI	5	TYR	2.0
36	DO	36	TYR	2.0
5	CF	9	MET	2.0
43	DW	53	GLY	2.0
19	CT	71	ALA	2.0
19	CT	19	HIS	2.0
2	AC	130	ARG	2.0
12	CM	79	LEU	2.0
29	BG	85	LYS	2.0
1	AA	729	A	2.0
10	AK	95	THR	2.0
16	AQ	33	TYR	2.0
37	DP	98	TYR	2.0
52	DI	88	GLY	2.0
29	BG	167	VAL	2.0
21	CU	3	ILE	2.0
28	DF	43	ILE	2.0
36	DO	51	ALA	2.0
41	BT	41	ALA	2.0
47	B0	37	HIS	2.0
15	CP	6	LEU	2.0
25	BC	109	LEU	2.0
30	BH	139	PHE	2.0
33	BL	29	LYS	2.0
42	DU	3	LYS	2.0
8	AI	8	THR	2.0
20	AB	46	VAL	2.0
28	BF	89	THR	2.0
34	BM	57	VAL	2.0
52	BI	117	THR	2.0
1	AA	1492	A	2.0
23	DB	63	A	2.0
33	DL	73	ILE	2.0
34	DM	63	ILE	2.0
36	BO	113	ALA	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
39	BR	98	ILE	2.0
49	D2	28	ARG	2.0
7	CH	32	LYS	2.0
39	DR	24	LYS	2.0
26	BD	89	GLU	2.0
4	AE	157	GLY	2.0
27	DE	151	GLY	2.0
2	CC	167	TYR	2.0
13	CN	5	MET	2.0
19	AT	8	LYS	2.0
23	BB	1458	U	2.0
23	DB	1458	U	2.0
24	DV	52	ALA	2.0
25	DC	36	ASN	2.0
31	DJ	64	VAL	2.0
48	B1	20	TYR	2.0
34	DM	11	LYS	2.0
37	DP	28	LYS	2.0
41	BT	99	ALA	2.0
28	BF	80	GLN	2.0
43	BW	69	GLU	2.0
20	AB	16	GLY	2.0
11	AL	9	LYS	2.0
13	CN	97	LYS	2.0
29	BG	8	VAL	2.0
29	DG	13	GLY	2.0
43	DW	30	VAL	2.0
43	DW	76	ARG	2.0
52	DI	15	GLY	2.0
27	BE	176	ASP	2.0
36	BO	91	SER	2.0
37	BP	84	SER	2.0
39	BR	102	SER	2.0
9	AJ	29	ALA	2.0
28	DF	155	ILE	2.0
29	BG	23	ILE	2.0
30	BH	145	ASN	2.0
37	BP	47	ILE	2.0
38	DQ	41	ALA	2.0
41	DT	83	ALA	2.0
8	AI	126	PHE	2.0
9	AJ	52	LEU	2.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
18	AS	12	LEU	2.0
33	DL	79	LEU	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th 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	LLDF	B-factors(Å ²)	Q<0.9
54	MG	DB	3082	1/1	0.82	0.29	6.31	61,61,61,61	0
54	MG	BB	3086	1/1	0.95	0.29	5.28	94,94,94,94	0
53	KSG	CA	1601	26/26	0.83	0.33	3.77	53,53,53,53	0
53	KSG	AA	1601	26/26	0.83	0.30	2.61	53,53,53,53	0
54	MG	BB	3100	1/1	0.73	0.22	2.09	37,37,37,37	1
54	MG	DB	3025	1/1	0.91	0.26	1.72	20,20,20,20	0
54	MG	BB	3078	1/1	0.95	0.28	1.33	49,49,49,49	0
54	MG	AA	1631	1/1	0.68	0.26	1.07	143,143,143,143	0
54	MG	DB	3086	1/1	0.94	0.24	0.94	25,25,25,25	0
54	MG	DB	3094	1/1	0.89	0.21	0.64	33,33,33,33	0
54	MG	BB	3110	1/1	0.92	0.22	0.58	79,79,79,79	0
54	MG	DN	201	1/1	0.94	0.26	0.13	38,38,38,38	0
54	MG	DB	3067	1/1	0.91	0.28	-0.22	11,11,11,11	0
54	MG	BB	3081	1/1	0.81	0.21	-0.24	34,34,34,34	0
54	MG	BB	3012	1/1	0.97	0.19	-0.37	75,75,75,75	0
54	MG	DB	3085	1/1	0.86	0.21	-0.48	64,64,64,64	0
54	MG	AA	1608	1/1	0.66	0.19	-0.49	57,57,57,57	0
54	MG	AA	1616	1/1	0.71	0.20	-0.58	86,86,86,86	0
54	MG	BB	3034	1/1	0.67	0.23	-0.62	42,42,42,42	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	BB	3018	1/1	0.75	0.22	-0.75	42,42,42,42	0
54	MG	BB	3073	1/1	0.92	0.21	-0.79	55,55,55,55	0
54	MG	BB	3048	1/1	0.84	0.14	-0.83	39,39,39,39	0
54	MG	DB	3109	1/1	0.92	0.19	-0.86	57,57,57,57	0
54	MG	DB	3050	1/1	0.92	0.20	-0.87	42,42,42,42	0
54	MG	DB	3056	1/1	0.90	0.12	-0.88	67,67,67,67	0
54	MG	BB	3005	1/1	0.85	0.15	-1.07	13,13,13,13	0
54	MG	DB	3062	1/1	0.80	0.12	-1.08	24,24,24,24	0
54	MG	BB	3062	1/1	0.92	0.21	-1.11	34,34,34,34	0
54	MG	AA	1602	1/1	0.83	0.19	-1.18	34,34,34,34	0
54	MG	DB	3055	1/1	0.93	0.20	-1.19	20,20,20,20	0
54	MG	AA	1653	1/1	0.92	0.15	-1.21	30,30,30,30	0
54	MG	DB	3012	1/1	0.91	0.17	-1.24	6,6,6,6	0
54	MG	DB	3003	1/1	0.87	0.13	-1.27	8,8,8,8	0
54	MG	CA	1615	1/1	0.95	0.14	-1.36	54,54,54,54	0
54	MG	BB	3092	1/1	0.94	0.16	-1.43	56,56,56,56	0
54	MG	BB	3088	1/1	0.90	0.16	-1.45	25,25,25,25	0
54	MG	AA	1610	1/1	0.98	0.15	-1.48	10,10,10,10	0
54	MG	DB	3029	1/1	0.85	0.19	-1.52	22,22,22,22	0
54	MG	DB	3024	1/1	0.85	0.12	-1.52	27,27,27,27	0
54	MG	BB	3098	1/1	0.94	0.15	-1.62	49,49,49,49	0
54	MG	DB	3076	1/1	0.89	0.15	-1.67	69,69,69,69	0
54	MG	DB	3027	1/1	0.88	0.15	-1.75	37,37,37,37	0
54	MG	DB	3046	1/1	0.95	0.18	-1.76	18,18,18,18	0
54	MG	CA	1640	1/1	0.80	0.12	-1.85	139,139,139,139	0
54	MG	DB	3001	1/1	0.93	0.17	-1.89	5,5,5,5	0
54	MG	CA	1642	1/1	0.91	0.13	-1.93	70,70,70,70	0
54	MG	BB	3029	1/1	0.97	0.10	-1.97	7,7,7,7	0
54	MG	CA	1613	1/1	0.94	0.10	-2.14	63,63,63,63	0
54	MG	DB	3108	1/1	0.75	0.12	-2.15	24,24,24,24	0
54	MG	DB	3092	1/1	0.95	0.06	-2.25	16,16,16,16	0
54	MG	CA	1617	1/1	0.92	0.07	-2.29	45,45,45,45	0
54	MG	BB	3065	1/1	0.84	0.14	-2.31	47,47,47,47	0
54	MG	BB	3096	1/1	0.90	0.12	-2.36	39,39,39,39	0
54	MG	BB	3040	1/1	0.95	0.14	-2.44	18,18,18,18	0
54	MG	BB	3103	1/1	0.96	0.14	-2.50	11,11,11,11	0
54	MG	BB	3087	1/1	0.92	0.10	-2.53	53,53,53,53	0
54	MG	BB	3021	1/1	0.82	0.17	-2.64	24,24,24,24	0
54	MG	BB	3094	1/1	0.83	0.14	-2.84	16,16,16,16	0
54	MG	DB	3014	1/1	0.94	0.14	-2.85	28,28,28,28	0
54	MG	BB	3051	1/1	0.86	0.10	-2.87	74,74,74,74	0
54	MG	DB	3010	1/1	0.93	0.08	-2.87	8,8,8,8	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	AA	1661	1/1	0.79	0.05	-2.90	83,83,83,83	0
54	MG	DB	3022	1/1	0.93	0.07	-2.92	5,5,5,5	0
54	MG	CA	1602	1/1	0.90	0.12	-2.93	8,8,8,8	0
54	MG	AA	1604	1/1	0.89	0.11	-2.98	25,25,25,25	0
54	MG	DB	3034	1/1	0.92	0.11	-3.01	84,84,84,84	0
54	MG	BB	3023	1/1	0.93	0.10	-3.04	27,27,27,27	0
54	MG	BB	3056	1/1	0.93	0.14	-3.04	37,37,37,37	0
54	MG	DB	3072	1/1	0.97	0.10	-3.12	5,5,5,5	0
54	MG	BB	3090	1/1	0.89	0.11	-3.14	65,65,65,65	0
54	MG	DB	3097	1/1	0.96	0.13	-3.16	19,19,19,19	0
54	MG	CA	1647	1/1	0.91	0.12	-3.26	40,40,40,40	0
54	MG	AA	1654	1/1	0.80	0.11	-3.34	81,81,81,81	0
54	MG	DB	3090	1/1	0.95	0.15	-3.38	106,106,106,106	0
54	MG	DB	3077	1/1	0.97	0.13	-3.54	41,41,41,41	0
54	MG	CA	1634	1/1	0.94	0.09	-3.55	46,46,46,46	0
54	MG	AA	1638	1/1	0.95	0.11	-3.56	88,88,88,88	0
54	MG	CA	1606	1/1	0.94	0.08	-3.56	30,30,30,30	0
54	MG	BB	3037	1/1	0.95	0.10	-3.58	21,21,21,21	0
54	MG	DB	3068	1/1	0.95	0.12	-3.80	49,49,49,49	0
54	MG	BB	3085	1/1	0.93	0.11	-3.80	67,67,67,67	0
54	MG	AA	1643	1/1	0.97	0.07	-3.80	116,116,116,116	0
54	MG	CA	1618	1/1	0.98	0.08	-3.87	26,26,26,26	0
54	MG	CA	1658	1/1	0.90	0.07	-3.90	18,18,18,18	0
54	MG	DB	3106	1/1	0.89	0.12	-4.07	7,7,7,7	0
54	MG	DB	3083	1/1	0.92	0.13	-4.28	18,18,18,18	0
54	MG	BB	3026	1/1	0.91	0.12	-4.30	25,25,25,25	0
54	MG	BB	3011	1/1	0.97	0.12	-4.40	9,9,9,9	0
54	MG	AA	1651	1/1	0.92	0.05	-4.46	64,64,64,64	0
54	MG	BB	3052	1/1	0.90	0.09	-4.47	27,27,27,27	0
54	MG	DB	3009	1/1	0.91	0.11	-4.50	10,10,10,10	0
54	MG	BB	3083	1/1	0.88	0.14	-4.55	25,25,25,25	0
54	MG	DB	3096	1/1	0.99	0.17	-4.66	31,31,31,31	0
54	MG	DB	3101	1/1	0.95	0.13	-4.78	30,30,30,30	0
54	MG	BB	3035	1/1	0.96	0.12	-4.84	25,25,25,25	0
54	MG	BB	3013	1/1	0.91	0.09	-4.84	36,36,36,36	0
54	MG	CA	1635	1/1	0.93	0.11	-4.88	91,91,91,91	0
54	MG	CA	1657	1/1	0.92	0.13	-4.93	51,51,51,51	0
54	MG	BB	3019	1/1	0.93	0.14	-4.94	22,22,22,22	0
54	MG	AA	1611	1/1	0.95	0.06	-5.02	57,57,57,57	0
54	MG	DB	3087	1/1	0.96	0.12	-5.05	40,40,40,40	0
54	MG	DB	3007	1/1	0.82	0.14	-5.11	15,15,15,15	0
54	MG	DB	3026	1/1	0.88	0.14	-5.12	30,30,30,30	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	BB	3079	1/1	0.94	0.06	-5.43	32,32,32,32	0
54	MG	DB	3075	1/1	0.81	0.14	-5.59	42,42,42,42	0
54	MG	BB	3108	1/1	0.90	0.13	-5.83	22,22,22,22	0
54	MG	BB	3069	1/1	0.96	0.08	-6.08	8,8,8,8	0
54	MG	CA	1648	1/1	0.96	0.06	-6.19	39,39,39,39	0
54	MG	CA	1619	1/1	0.96	0.07	-6.23	9,9,9,9	0
54	MG	BB	3061	1/1	0.94	0.06	-6.51	33,33,33,33	0
54	MG	DB	3002	1/1	0.91	0.13	-6.55	20,20,20,20	0
54	MG	BB	3002	1/1	0.98	0.09	-6.63	9,9,9,9	0
54	MG	DB	3054	1/1	0.97	0.10	-6.69	32,32,32,32	0
54	MG	CA	1645	1/1	0.96	0.07	-7.12	28,28,28,28	0
54	MG	DB	3078	1/1	0.97	0.08	-10.26	5,5,5,5	0
54	MG	BB	3001	1/1	0.85	0.11	-11.21	28,28,28,28	0
54	MG	BB	3004	1/1	0.92	0.08	-	39,39,39,39	0
54	MG	BB	3017	1/1	0.89	0.10	-	54,54,54,54	0
54	MG	DB	3060	1/1	0.83	0.10	-	105,105,105,105	0
54	MG	DB	3035	1/1	0.83	0.16	-	24,24,24,24	0
54	MG	AA	1620	1/1	0.74	0.29	-	116,116,116,116	0
54	MG	DB	3103	1/1	0.82	0.17	-	61,61,61,61	0
54	MG	BB	3076	1/1	0.85	0.12	-	43,43,43,43	0
54	MG	AA	1659	1/1	0.97	0.20	-	157,157,157,157	0
54	MG	CA	1659	1/1	0.91	0.25	-	88,88,88,88	0
54	MG	AA	1625	1/1	0.86	0.40	-	81,81,81,81	0
54	MG	AA	1614	1/1	0.73	0.15	-	67,67,67,67	0
54	MG	CA	1620	1/1	0.96	0.14	-	32,32,32,32	0
54	MG	AA	1627	1/1	0.75	0.33	-	17,17,17,17	1
54	MG	BB	3032	1/1	0.92	0.14	-	31,31,31,31	0
54	MG	DB	3043	1/1	0.94	0.07	-	7,7,7,7	0
54	MG	CA	1637	1/1	0.84	0.15	-	107,107,107,107	0
54	MG	BB	3022	1/1	0.96	0.14	-	55,55,55,55	0
54	MG	AA	1605	1/1	0.92	0.12	-	30,30,30,30	0
54	MG	DB	3005	1/1	0.98	0.09	-	6,6,6,6	0
54	MG	AA	1628	1/1	0.71	0.16	-	63,63,63,63	0
54	MG	DB	3053	1/1	0.88	0.10	-	37,37,37,37	0
54	MG	AA	1609	1/1	0.49	0.20	-	119,119,119,119	0
54	MG	AA	1607	1/1	0.81	0.08	-	82,82,82,82	0
54	MG	BB	3093	1/1	0.92	0.17	-	5,5,5,5	1
54	MG	CA	1646	1/1	0.95	0.05	-	94,94,94,94	0
54	MG	DB	3061	1/1	0.89	0.11	-	48,48,48,48	0
54	MG	DB	3015	1/1	0.87	0.15	-	69,69,69,69	0
54	MG	DB	3006	1/1	0.98	0.08	-	16,16,16,16	0
54	MG	CA	1610	1/1	0.97	0.16	-	61,61,61,61	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	AA	1615	1/1	0.30	0.19	-	72,72,72,72	0
54	MG	BB	3084	1/1	0.80	0.11	-	19,19,19,19	0
54	MG	DB	3051	1/1	0.94	0.15	-	57,57,57,57	0
54	MG	AA	1650	1/1	0.44	0.23	-	133,133,133,133	0
54	MG	BB	3014	1/1	0.84	0.17	-	33,33,33,33	0
54	MG	DB	3069	1/1	0.93	0.09	-	50,50,50,50	0
54	MG	AA	1649	1/1	0.85	0.10	-	102,102,102,102	0
54	MG	AA	1660	1/1	0.80	0.10	-	95,95,95,95	0
54	MG	CA	1607	1/1	0.88	0.13	-	126,126,126,126	0
54	MG	CA	1643	1/1	0.95	0.10	-	62,62,62,62	0
54	MG	BB	3024	1/1	0.90	0.17	-	22,22,22,22	0
54	MG	CA	1625	1/1	0.96	0.14	-	24,24,24,24	0
54	MG	CA	1644	1/1	0.82	0.12	-	59,59,59,59	0
54	MG	DB	3020	1/1	0.94	0.24	-	41,41,41,41	0
54	MG	AA	1613	1/1	0.80	0.20	-	108,108,108,108	0
54	MG	CA	1652	1/1	0.94	0.13	-	20,20,20,20	0
54	MG	BB	3007	1/1	0.88	0.14	-	57,57,57,57	0
54	MG	AA	1655	1/1	0.80	0.10	-	67,67,67,67	0
54	MG	DB	3098	1/1	0.88	0.11	-	9,9,9,9	0
54	MG	DB	3032	1/1	0.87	0.11	-	29,29,29,29	0
54	MG	DB	3059	1/1	0.73	0.15	-	75,75,75,75	0
54	MG	BB	3063	1/1	0.87	0.17	-	27,27,27,27	0
54	MG	DB	3042	1/1	0.90	0.16	-	5,5,5,5	0
54	MG	DB	3028	1/1	0.83	0.18	-	29,29,29,29	0
54	MG	BB	3071	1/1	0.91	0.19	-	38,38,38,38	0
54	MG	AA	1640	1/1	0.82	0.10	-	42,42,42,42	0
54	MG	BB	3030	1/1	0.93	0.08	-	45,45,45,45	0
54	MG	CA	1660	1/1	0.96	0.21	-	27,27,27,27	0
54	MG	DB	3021	1/1	0.93	0.12	-	25,25,25,25	0
54	MG	CA	1611	1/1	0.96	0.04	-	43,43,43,43	0
54	MG	BB	3045	1/1	0.97	0.05	-	40,40,40,40	0
54	MG	DB	3066	1/1	0.93	0.15	-	12,12,12,12	0
54	MG	AA	1618	1/1	0.92	0.12	-	102,102,102,102	0
54	MG	BB	3031	1/1	0.86	0.18	-	46,46,46,46	0
54	MG	BB	3080	1/1	0.91	0.09	-	42,42,42,42	0
54	MG	CA	1636	1/1	0.92	0.14	-	13,13,13,13	0
54	MG	AA	1630	1/1	0.95	0.10	-	20,20,20,20	0
54	MG	BB	3060	1/1	0.82	0.16	-	81,81,81,81	0
54	MG	CA	1631	1/1	0.58	0.25	-	21,21,21,21	1
54	MG	BB	3049	1/1	0.89	0.15	-	12,12,12,12	0
54	MG	CA	1654	1/1	0.97	0.19	-	32,32,32,32	0
54	MG	DB	3037	1/1	0.94	0.10	-	8,8,8,8	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	BB	3059	1/1	0.90	0.10	-	16,16,16,16	0
54	MG	AA	1621	1/1	0.73	0.14	-	96,96,96,96	0
54	MG	DB	3099	1/1	0.96	0.17	-	11,11,11,11	0
54	MG	BB	3082	1/1	0.64	0.39	-	63,63,63,63	0
54	MG	CA	1629	1/1	0.62	0.61	-	62,62,62,62	1
54	MG	AA	1633	1/1	0.82	0.15	-	92,92,92,92	0
54	MG	BB	3020	1/1	0.96	0.07	-	38,38,38,38	0
54	MG	CA	1626	1/1	0.95	0.11	-	17,17,17,17	0
54	MG	BB	3016	1/1	0.92	0.18	-	19,19,19,19	0
54	MG	CA	1653	1/1	0.95	0.07	-	48,48,48,48	0
54	MG	BB	3010	1/1	0.89	0.16	-	74,74,74,74	0
54	MG	DB	3052	1/1	0.78	0.25	-	42,42,42,42	0
54	MG	DB	3079	1/1	0.93	0.14	-	7,7,7,7	0
54	MG	AA	1657	1/1	0.81	0.27	-	83,83,83,83	0
54	MG	AA	1622	1/1	0.96	0.06	-	16,16,16,16	0
54	MG	AA	1612	1/1	0.80	0.12	-	52,52,52,52	0
54	MG	DB	3019	1/1	0.99	0.03	-	8,8,8,8	0
54	MG	CA	1656	1/1	0.97	0.10	-	60,60,60,60	0
54	MG	CA	1603	1/1	0.94	0.12	-	32,32,32,32	0
54	MG	DB	3045	1/1	0.95	0.07	-	45,45,45,45	0
54	MG	DB	3033	1/1	0.77	0.26	-	88,88,88,88	0
54	MG	CA	1633	1/1	0.96	0.10	-	50,50,50,50	0
54	MG	DB	3071	1/1	0.72	0.13	-	27,27,27,27	0
54	MG	DB	3089	1/1	0.97	0.28	-	28,28,28,28	0
54	MG	BB	3106	1/1	0.92	0.25	-	62,62,62,62	0
54	MG	CA	1605	1/1	0.96	0.09	-	37,37,37,37	0
54	MG	DB	3039	1/1	0.93	0.11	-	5,5,5,5	0
54	MG	BB	3075	1/1	0.91	0.25	-	35,35,35,35	0
54	MG	DB	3084	1/1	0.97	0.17	-	18,18,18,18	0
54	MG	CA	1616	1/1	0.59	0.26	-	153,153,153,153	0
54	MG	BB	3003	1/1	0.94	0.11	-	23,23,23,23	0
54	MG	AA	1635	1/1	0.97	0.07	-	75,75,75,75	0
54	MG	CA	1638	1/1	0.88	0.21	-	60,60,60,60	0
54	MG	BB	3097	1/1	0.72	0.13	-	96,96,96,96	0
54	MG	BB	3041	1/1	0.81	0.18	-	47,47,47,47	0
54	MG	DB	3100	1/1	0.94	0.14	-	6,6,6,6	0
54	MG	AA	1606	1/1	0.91	0.06	-	28,28,28,28	0
54	MG	BB	3008	1/1	0.74	0.16	-	82,82,82,82	0
54	MG	BB	3095	1/1	0.98	0.06	-	48,48,48,48	0
54	MG	DB	3104	1/1	0.94	0.19	-	44,44,44,44	0
54	MG	CA	1628	1/1	0.85	0.34	-	38,38,38,38	1
54	MG	CA	1604	1/1	0.95	0.15	-	49,49,49,49	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	CA	1621	1/1	0.92	0.09	-	46,46,46,46	0
54	MG	BB	3058	1/1	0.97	0.12	-	33,33,33,33	0
54	MG	DB	3017	1/1	0.74	0.23	-	22,22,22,22	0
54	MG	BB	3089	1/1	0.93	0.23	-	82,82,82,82	0
54	MG	AA	1636	1/1	0.94	0.14	-	83,83,83,83	0
54	MG	BB	3074	1/1	0.87	0.12	-	7,7,7,7	0
54	MG	DB	3095	1/1	0.91	0.09	-	44,44,44,44	0
54	MG	AA	1644	1/1	0.95	0.17	-	81,81,81,81	0
54	MG	BB	3099	1/1	0.89	0.13	-	58,58,58,58	0
54	MG	BB	3064	1/1	0.88	0.16	-	71,71,71,71	0
54	MG	AA	1647	1/1	0.87	0.60	-	84,84,84,84	0
54	MG	CA	1632	1/1	0.94	0.12	-	34,34,34,34	0
54	MG	AA	1656	1/1	0.86	0.14	-	100,100,100,100	0
54	MG	AA	1642	1/1	0.83	0.15	-	107,107,107,107	0
54	MG	AA	1617	1/1	0.87	0.13	-	65,65,65,65	0
54	MG	CA	1627	1/1	0.85	0.19	-	114,114,114,114	0
54	MG	BB	3036	1/1	0.89	0.10	-	29,29,29,29	0
54	MG	CA	1624	1/1	0.32	0.29	-	162,162,162,162	0
54	MG	CA	1630	1/1	0.86	0.09	-	49,49,49,49	0
54	MG	BB	3091	1/1	0.89	0.16	-	42,42,42,42	0
54	MG	BB	3015	1/1	0.97	0.10	-	23,23,23,23	0
54	MG	DB	3018	1/1	0.92	0.12	-	39,39,39,39	0
54	MG	AA	1624	1/1	0.88	0.12	-	25,25,25,25	1
54	MG	AA	1658	1/1	0.80	0.12	-	113,113,113,113	0
54	MG	BB	3033	1/1	0.75	0.25	-	113,113,113,113	0
54	MG	DB	3038	1/1	0.94	0.08	-	33,33,33,33	0
54	MG	DB	3031	1/1	0.97	0.10	-	40,40,40,40	0
54	MG	AA	1652	1/1	0.88	0.14	-	105,105,105,105	0
54	MG	BB	3006	1/1	0.95	0.08	-	20,20,20,20	0
54	MG	DB	3011	1/1	0.94	0.17	-	23,23,23,23	0
54	MG	CA	1609	1/1	0.78	0.19	-	132,132,132,132	0
54	MG	BB	3039	1/1	0.91	0.13	-	26,26,26,26	0
54	MG	DB	3080	1/1	0.89	0.12	-	34,34,34,34	0
54	MG	BB	3101	1/1	0.89	0.10	-	14,14,14,14	0
54	MG	DB	3036	1/1	0.94	0.17	-	25,25,25,25	0
54	MG	DB	3081	1/1	0.91	0.15	-	110,110,110,110	0
54	MG	DB	3065	1/1	0.95	0.16	-	25,25,25,25	0
54	MG	DB	3093	1/1	0.86	0.76	-	48,48,48,48	1
54	MG	BB	3046	1/1	0.82	0.17	-	63,63,63,63	0
54	MG	AA	1639	1/1	0.46	0.19	-	141,141,141,141	0
54	MG	AA	1603	1/1	0.80	0.14	-	74,74,74,74	0
54	MG	DB	3057	1/1	0.81	0.20	-	56,56,56,56	1

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	DB	3040	1/1	0.85	0.20	-	28,28,28,28	0
54	MG	BB	3047	1/1	0.69	0.29	-	128,128,128,128	0
54	MG	BB	3067	1/1	0.85	0.16	-	56,56,56,56	0
54	MG	DB	3088	1/1	0.96	0.21	-	51,51,51,51	0
54	MG	DB	3070	1/1	0.94	0.07	-	60,60,60,60	0
54	MG	BB	3077	1/1	0.74	0.16	-	37,37,37,37	0
54	MG	BB	3043	1/1	0.88	0.24	-	63,63,63,63	0
54	MG	DB	3049	1/1	0.78	0.10	-	79,79,79,79	0
54	MG	BB	3038	1/1	0.91	0.13	-	82,82,82,82	0
54	MG	CA	1649	1/1	0.94	0.31	-	86,86,86,86	0
54	MG	CA	1623	1/1	0.50	0.14	-	77,77,77,77	0
54	MG	BB	3050	1/1	0.95	0.13	-	20,20,20,20	0
54	MG	DB	3073	1/1	0.94	0.11	-	44,44,44,44	0
54	MG	CA	1662	1/1	0.97	0.11	-	38,38,38,38	0
54	MG	BB	3044	1/1	0.95	0.07	-	39,39,39,39	0
54	MG	BB	3107	1/1	0.82	0.13	-	37,37,37,37	0
54	MG	BB	3057	1/1	0.86	0.18	-	19,19,19,19	0
54	MG	CA	1608	1/1	0.87	0.06	-	31,31,31,31	0
54	MG	AA	1629	1/1	0.96	0.10	-	62,62,62,62	0
54	MG	BB	3028	1/1	0.80	0.22	-	66,66,66,66	0
54	MG	DB	3048	1/1	0.95	0.07	-	7,7,7,7	0
54	MG	CA	1655	1/1	0.95	0.05	-	26,26,26,26	0
54	MG	DB	3102	1/1	0.95	0.10	-	13,13,13,13	0
54	MG	BB	3053	1/1	0.87	0.12	-	36,36,36,36	0
54	MG	BB	3070	1/1	0.98	0.09	-	55,55,55,55	0
54	MG	AA	1648	1/1	0.97	0.12	-	31,31,31,31	0
54	MG	AA	1634	1/1	0.90	0.19	-	73,73,73,73	0
54	MG	DB	3023	1/1	0.78	0.08	-	44,44,44,44	0
54	MG	DB	3016	1/1	0.80	0.14	-	25,25,25,25	0
54	MG	BB	3072	1/1	0.88	0.12	-	26,26,26,26	0
54	MG	AA	1632	1/1	0.93	0.07	-	44,44,44,44	0
54	MG	CA	1641	1/1	0.94	0.08	-	40,40,40,40	0
54	MG	AA	1619	1/1	0.74	0.13	-	33,33,33,33	0
54	MG	DB	3041	1/1	0.97	0.13	-	29,29,29,29	0
54	MG	CA	1650	1/1	0.94	0.08	-	67,67,67,67	0
54	MG	BB	3054	1/1	0.92	0.11	-	77,77,77,77	0
54	MG	CA	1622	1/1	0.63	0.34	-	132,132,132,132	0
54	MG	BB	3042	1/1	0.88	0.07	-	74,74,74,74	0
54	MG	DB	3091	1/1	0.97	0.16	-	39,39,39,39	0
54	MG	BB	3009	1/1	0.95	0.08	-	35,35,35,35	0
54	MG	DB	3063	1/1	0.98	0.11	-	42,42,42,42	0
54	MG	DB	3044	1/1	0.80	0.09	-	58,58,58,58	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
54	MG	DB	3058	1/1	0.85	0.20	-	132,132,132,132	0
54	MG	CA	1651	1/1	0.84	0.16	-	122,122,122,122	0
54	MG	AA	1641	1/1	0.95	0.09	-	72,72,72,72	0
54	MG	DB	3105	1/1	0.94	0.08	-	24,24,24,24	0
54	MG	CA	1639	1/1	0.93	0.04	-	41,41,41,41	0
54	MG	DB	3008	1/1	0.96	0.18	-	39,39,39,39	0
54	MG	AA	1646	1/1	0.92	0.15	-	103,103,103,103	0
54	MG	DB	3047	1/1	0.89	0.09	-	29,29,29,29	0
54	MG	BB	3025	1/1	0.97	0.16	-	67,67,67,67	0
54	MG	DB	3064	1/1	0.77	0.27	-	66,66,66,66	1
54	MG	AA	1623	1/1	0.88	0.32	-	143,143,143,143	0
54	MG	AA	1626	1/1	0.61	0.43	-	82,82,82,82	1
54	MG	BB	3104	1/1	0.88	0.13	-	33,33,33,33	0
54	MG	CA	1663	1/1	0.92	0.15	-	20,20,20,20	0
54	MG	BB	3055	1/1	0.95	0.12	-	19,19,19,19	0
54	MG	AA	1645	1/1	0.89	0.16	-	97,97,97,97	0
54	MG	CA	1661	1/1	0.89	0.29	-	67,67,67,67	0
54	MG	DB	3013	1/1	0.67	0.20	-	32,32,32,32	0
54	MG	BB	3068	1/1	0.92	0.12	-	39,39,39,39	0
54	MG	DB	3074	1/1	0.97	0.13	-	12,12,12,12	0
54	MG	AA	1637	1/1	0.67	0.62	-	115,115,115,115	0
54	MG	CA	1614	1/1	0.93	0.13	-	97,97,97,97	0
54	MG	BB	3027	1/1	0.93	0.07	-	29,29,29,29	0
54	MG	BB	3105	1/1	0.87	0.15	-	33,33,33,33	0
54	MG	BB	3102	1/1	0.91	0.11	-	34,34,34,34	0
54	MG	DB	3004	1/1	0.94	0.15	-	38,38,38,38	0
54	MG	DB	3107	1/1	0.85	0.13	-	19,19,19,19	0
54	MG	DE	301	1/1	0.80	0.16	-	69,69,69,69	0
54	MG	CA	1612	1/1	0.87	0.10	-	71,71,71,71	0
54	MG	BB	3066	1/1	0.88	0.13	-	42,42,42,42	0
54	MG	DB	3030	1/1	0.92	0.17	-	11,11,11,11	0
54	MG	BB	3109	1/1	0.90	0.15	-	33,33,33,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.