



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 07:41 AM UTC

PDB ID : 5EL6 / pdb_00005el6
Title : Structure of T. thermophilus 70S ribosome complex with mRNA and tRNA^{Lys} in the A-site with a U-U mismatch in the first position and antibiotic paromomycin
Authors : Rozov, A.; Demeshkina, N.; Khusainov, I.; Yusupov, M.; Yusupova, G.
Deposited on : 2015-11-04
Resolution : 3.10 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

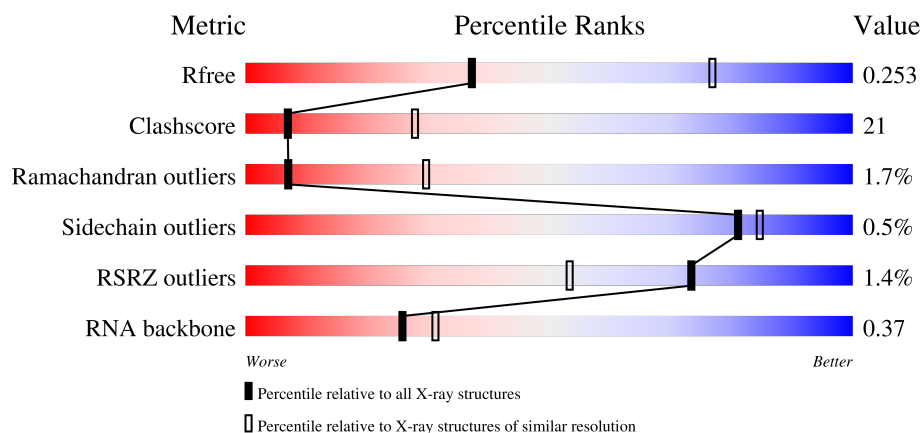
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

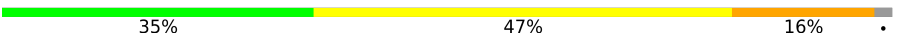
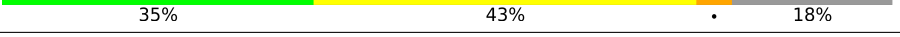
The reported resolution of this entry is 3.10 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1456 (3.10-3.10)
Clashscore	190562	1539 (3.10-3.10)
Ramachandran outliers	187476	1467 (3.10-3.10)
Sidechain outliers	187428	1467 (3.10-3.10)
RSRZ outliers	180081	1456 (3.10-3.10)
RNA backbone	3983	1022 (3.32-2.88)

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

Mol	Chain	Length	Quality of chain
1	13	1522	
1	1G	1522	
2	12	256	

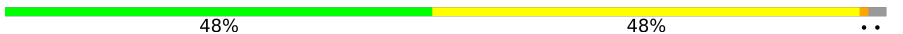
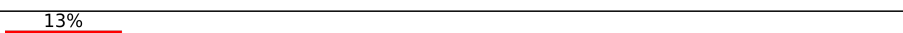
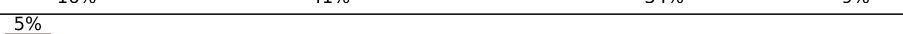
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
2	1E	256	
3	22	239	
3	2E	239	
4	32	209	
4	3E	209	
5	42	162	
5	4E	162	
6	52	101	
6	5E	101	
7	62	156	
7	6E	156	
8	72	138	
8	7E	138	
9	82	128	
9	8E	128	
10	1A	105	
10	1I	105	
11	2A	129	
11	2I	129	
12	3A	132	
12	3I	132	
13	4A	126	
13	4I	126	
14	5A	61	
14	5I	61	

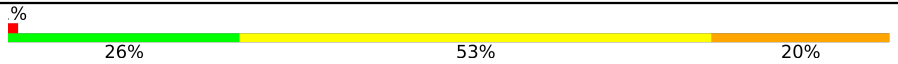
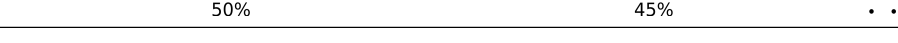
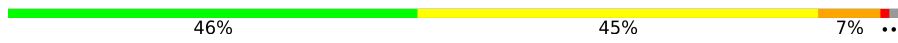
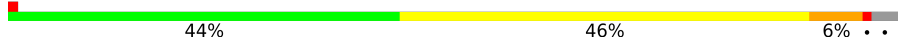
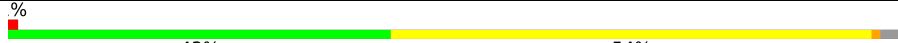
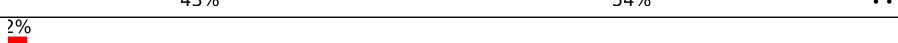
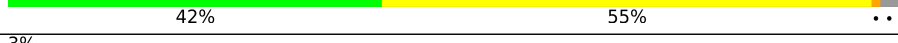
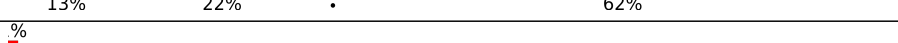
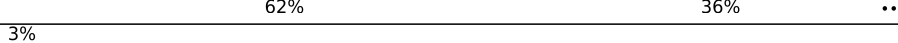
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
15	6A	89	
15	6I	89	
16	7A	88	
16	7I	88	
17	8A	105	
17	8I	105	
18	9A	88	
18	9I	88	
19	AA	93	
19	AI	93	
20	BA	106	
20	BI	106	
21	1B	27	
21	1F	27	
22	1K	76	
22	1L	76	
23	2K	77	
23	2L	77	
24	3K	76	
24	3L	76	
25	4K	27	
25	4L	27	
26	14	2912	
26	1H	2912	
27	16	122	

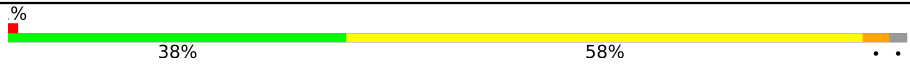
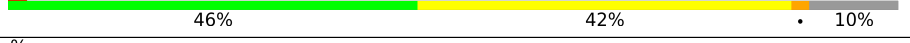
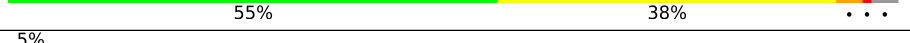
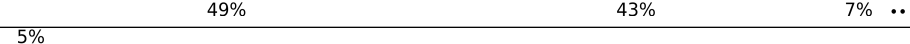
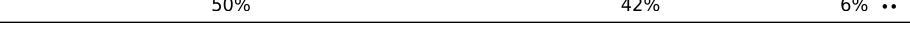
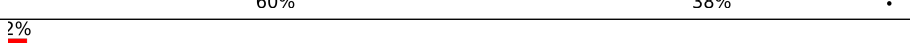
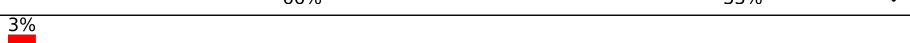
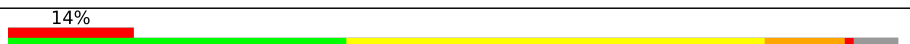
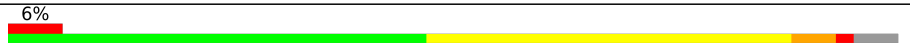
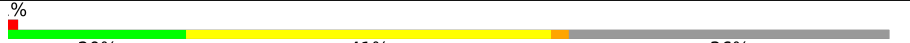
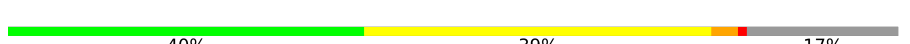
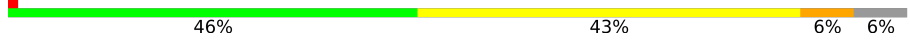
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
27	1J	122	
28	71	229	
28	79	229	
29	11	276	
29	19	276	
30	21	206	
30	29	206	
31	31	210	
31	39	210	
32	41	182	
32	49	182	
33	51	180	
33	59	180	
34	61	148	
34	69	148	
35	15	140	
35	58	140	
36	25	122	
36	68	122	
37	35	150	
37	78	150	
38	45	141	
38	88	141	
39	55	118	
39	98	118	

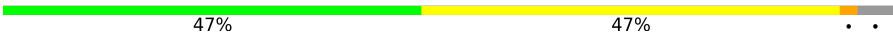
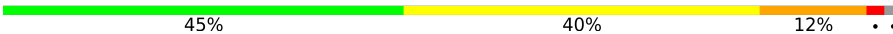
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
40	65	112	
40	A8	112	
41	75	146	
41	B8	146	
42	85	118	
42	C8	118	
43	95	101	
43	D8	101	
44	A5	113	
44	E8	113	
45	B5	96	
45	F8	96	
46	C5	110	
46	G8	110	
47	D5	206	
47	H8	206	
48	E5	85	
48	I8	85	
49	F5	98	
49	J8	98	
50	G5	72	
50	K8	72	
51	H5	60	
51	L8	60	
52	M8	71	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
53	J5	60	
53	N8	60	
54	L5	49	
54	P8	49	
55	M5	65	
55	Q8	65	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	13	1702	-	-	-	X
56	MG	14	3039	-	-	-	X
56	MG	14	3287	-	-	-	X
56	MG	1H	3052	-	-	-	X
56	MG	1H	3291	-	-	-	X
58	SF4	32	301	-	-	X	-
58	SF4	3E	302	-	-	X	-

2 Entry composition

There are 60 unique types of molecules in this entry. The entry contains 294257 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	13	1496	Total	C	N	O	P	0	0	0
			32157	14313	5960	10388	1496			
1	1G	1507	Total	C	N	O	P	0	0	0
			32391	14418	6004	10463	1506			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1E	231	Total	C	N	O	S	0	0	0
			1874	1199	334	336	5			
2	12	210	Total	C	N	O	S	0	0	0
			1721	1100	309	308	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	2E	205	Total	C	N	O	S	0	0	0
			1605	1011	313	280	1			
3	22	196	Total	C	N	O	S	0	0	0
			1541	975	298	267	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	3E	207	Total	C	N	O	S	0	0	0
			1698	1064	338	289	7			
4	32	208	Total	C	N	O	S	0	0	0
			1702	1066	339	290	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	4E	149	Total	C	N	O	S	0	0	0
			1142	722	216	200	4			
5	42	148	Total	C	N	O	S	0	0	0
			1134	718	215	197	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	5E	100	Total	C	N	O	S	0	0	0
			837	528	154	152	3			
6	52	101	Total	C	N	O	S	0	0	0
			842	531	155	153	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	6E	154	Total	C	N	O	S	0	0	0
			1242	770	250	216	6			
7	62	138	Total	C	N	O	S	0	0	0
			1110	689	221	194	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	7E	138	Total	C	N	O	S	0	0	0
			1115	705	215	192	3			
8	72	137	Total	C	N	O	S	0	0	0
			1107	700	214	191	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	8E	126	Total	C	N	O		0	0	0
			1000	634	196	170				
9	82	121	Total	C	N	O		0	0	0
			953	605	186	162				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1I	91	Total	C	N	O	S	0	0	0
			734	459	144	130	1			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	1A	80	Total	C	N	O	0	0	0
			646	403	129	114			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	2I	111	Total	C	N	O	0	0	0
			823	512	154	154			
11	2A	113	Total	C	N	O	0	0	0
			835	520	156	156			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	3I	122	Total	C	N	O	0	0	0
			956	603	193	159			
12	3A	122	Total	C	N	O	0	0	0
			956	603	193	159			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	4I	119	Total	C	N	O	0	0	0
			942	582	194	164			
13	4A	111	Total	C	N	O	0	0	0
			893	552	183	156			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	5I	60	Total	C	N	O	0	0	0
			491	312	104	71			
14	5A	59	Total	C	N	O	0	0	0
			486	309	103	70			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	6I	87	Total	C	N	O	0	0	0
			729	457	146	124			
15	6A	87	Total	C	N	O	0	0	0
			729	457	146	124			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	7I	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			
16	7A	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	8I	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
17	8A	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	9I	68	Total	C	N	O	0	0	0
			549	352	105	92			
18	9A	67	Total	C	N	O	0	0	0
			544	349	104	91			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AI	82	Total	C	N	O	S	0	0	0
			658	419	123	114	2			
19	AA	62	Total	C	N	O	S	0	0	0
			481	306	85	88	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	BI	97	Total	C	N	O	S	0	0	0
			746	461	157	126	2			
20	BA	99	Total	C	N	O	S	0	0	0
			762	470	162	128	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	1F	23	Total	C	N	O	0	0	0
			199	122	48	29			
21	1B	22	Total	C	N	O	0	0	0
			188	116	44	28			

- Molecule 22 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
22	1K	69	Total	C	N	O	P	S	0	0	0
			1477	662	257	488	69	1			
22	1L	73	Total	C	N	O	P	S	0	0	0
			1563	700	271	518	73	1			

- Molecule 23 is a RNA chain called E. coli tRNA^{fMet}.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
23	2K	77	Total	C	N	O	P	S	0	0	0
			1646	735	298	535	77	1			
23	2L	77	Total	C	N	O	P	S	0	0	0
			1646	735	298	535	77	1			

- Molecule 24 is a RNA chain called tRNA^{Lys}.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	3K	76	Total	C	N	O	P	0	0	0
			1611	721	281	534	75			
24	3L	76	Total	C	N	O	P	0	0	0
			1611	721	281	534	75			

- Molecule 25 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	4K	20	Total	C	N	O	P	0	0	0
			439	197	91	131	20			
25	4L	18	Total	C	N	O	P	0	0	0
			395	177	81	119	18			

- Molecule 26 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	1H	2833	Total	C	N	O	P	0	0	0
			61028	27159	11418	19618	2833			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	14	2861	Total	C	N	O	P	0	0	0
			61630	27429	11535	19806	2860			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1H	161	U	UNK	conflict	GB 55771382
1H	654A	A	G	conflict	GB 55771382
1H	654E	C	G	conflict	GB 55771382
1H	654P	G	C	conflict	GB 55771382
1H	654T	A	C	conflict	GB 55771382
1H	1058	U	G	conflict	GB 55771382
1H	1080	A	C	conflict	GB 55771382
14	158	U	UNK	conflict	GB 55771382
14	654A	A	G	conflict	GB 55771382
14	654E	C	G	conflict	GB 55771382
14	654P	G	C	conflict	GB 55771382
14	654T	A	C	conflict	GB 55771382
14	1058	U	G	conflict	GB 55771382
14	1080	A	C	conflict	GB 55771382

- Molecule 27 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	16	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
27	1J	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

- Molecule 28 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	71	133	Total	C	N	O	S	0	0	0
			1033	651	194	187	1			
28	79	57	Total	C	N	O		0	0	0
			456	283	91	82				

- Molecule 29 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	11	273	Total	C	N	O	S	0	0	0
			2120	1338	421	358	3			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	19	274	Total	C	N	O	S	0	0	0
			2125	1341	422	359	3			

- Molecule 30 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	21	203	Total	C	N	O	S	0	0	0
			1558	985	298	269	6			
30	29	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

- Molecule 31 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	31	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			
31	39	204	Total	C	N	O	S	0	0	0
			1602	1022	299	279	2			

- Molecule 32 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	41	179	Total	C	N	O	S	0	0	0
			1457	931	265	257	4			
32	49	179	Total	C	N	O	S	0	0	0
			1458	931	266	257	4			

- Molecule 33 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	51	171	Total	C	N	O	S	0	0	0
			1312	832	246	233	1			
33	59	69	Total	C	N	O		0	0	0
			539	339	109	91				

- Molecule 34 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	61	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
34	69	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			

- Molecule 35 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	58	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			
35	15	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 36 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	68	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			
36	25	122	Total	C	N	O	S	0	0	0
			932	588	171	169	4			

- Molecule 37 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	78	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			
37	35	147	Total	C	N	O	S	0	0	0
			1122	698	229	192	3			

- Molecule 38 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	88	141	Total	C	N	O	S	0	0	0
			1113	709	210	187	7			
38	45	138	Total	C	N	O	S	0	0	0
			1099	702	208	183	6			

- Molecule 39 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	98	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			
39	55	118	Total	C	N	O	S	0	0	0
			967	604	203	159	1			

- Molecule 40 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	A8	111	Total	C	N	O	0	0	0
			881	556	176	149			
40	65	110	Total	C	N	O	0	0	0
			876	553	175	148			

- Molecule 41 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	B8	132	Total	C	N	O	0	0	0
			1101	686	227	188			
41	75	133	Total	C	N	O	S	0	0
			1109	691	228	189	1		

- Molecule 42 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
42	C8	115	Total	C	N	O	S	0	0
			950	603	199	147	1		
42	85	116	Total	C	N	O	S	0	0
			959	608	201	149	1		

- Molecule 43 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	D8	100	Total	C	N	O	S	0	0
			774	499	141	133	1		
43	95	100	Total	C	N	O	S	0	0
			774	499	141	133	1		

- Molecule 44 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	E8	112	Total	C	N	O	S	0	0
			890	560	175	153	2		
44	A5	111	Total	C	N	O	S	0	0
			886	558	174	152	2		

- Molecule 45 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	F8	95	Total	C	N	O	S	0	0
			743	482	134	126	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	B5	94	Total	C	N	O	0	0	0
			735	477	133	125			

- Molecule 46 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	G8	105	Total	C	N	O	S	0	0	0
			796	513	150	128	5			
46	C5	105	Total	C	N	O	S	0	0	0
			799	513	153	128	5			

- Molecule 47 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	H8	171	Total	C	N	O	S	0	0	0
			1373	876	247	247	3			
47	D5	132	Total	C	N	O	S	0	0	0
			1074	691	193	188	2			

- Molecule 48 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	I8	76	Total	C	N	O	S	0	0	0
			606	376	128	101	1			
48	E5	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			

- Molecule 49 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	J8	94	Total	C	N	O	S	0	0	0
			737	463	146	127	1			
49	F5	94	Total	C	N	O	S	0	0	0
			737	463	146	127	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	K8	68	Total	C	N	O	S	0	0	0
			568	352	115	100	1			
50	G5	68	Total	C	N	O	S	0	0	0
			568	352	115	100	1			

- Molecule 51 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	L8	58	Total	C	N	O	0	0	0
			459	293	89	77			
51	H5	58	Total	C	N	O	0	0	0
			459	293	89	77			

- Molecule 52 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M8	47	Total	C	N	O	S	0	0	0
			366	234	61	66	5			

- Molecule 53 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	N8	48	Total	C	N	O	S	0	0	0
			369	229	75	60	5			
53	J5	56	Total	C	N	O	S	0	0	0
			434	272	87	70	5			

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	P8	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			
54	L5	47	Total	C	N	O	S	0	0	0
			401	246	99	54	2			

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	Q8	64	Total	C	N	O	S	0	0	0
			516	331	102	81	2			
55	M5	64	Total	C	N	O	S	0	0	0
			516	331	102	81	2			

- Molecule 56 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	13	131	Total	Mg	0	0
			131	131		

Continued on next page...

Continued from previous page...

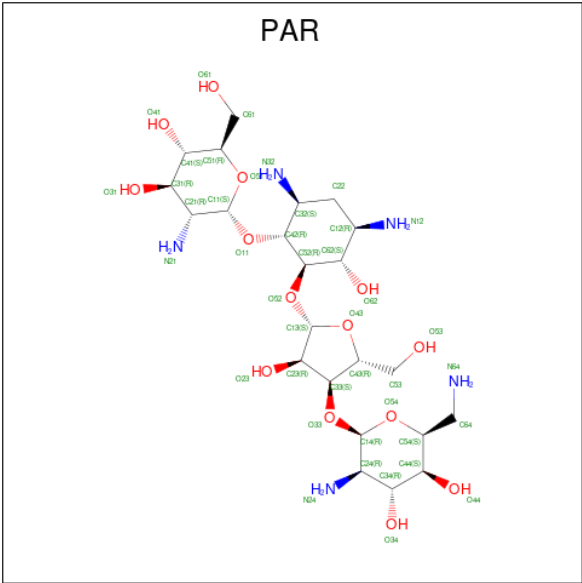
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	3E	1	Total 1	Mg 1	0	0
56	5E	1	Total 1	Mg 1	0	0
56	3I	1	Total 1	Mg 1	0	0
56	5I	1	Total 1	Mg 1	0	0
56	1K	1	Total 1	Mg 1	0	0
56	2K	3	Total 3	Mg 3	0	0
56	3K	1	Total 1	Mg 1	0	0
56	4K	1	Total 1	Mg 1	0	0
56	1H	429	Total 429	Mg 429	0	0
56	16	11	Total 11	Mg 11	0	0
56	21	2	Total 2	Mg 2	0	0
56	41	1	Total 1	Mg 1	0	0
56	78	1	Total 1	Mg 1	0	0
56	88	2	Total 2	Mg 2	0	0
56	I8	3	Total 3	Mg 3	0	0
56	L8	1	Total 1	Mg 1	0	0
56	P8	1	Total 1	Mg 1	0	0
56	Q8	1	Total 1	Mg 1	0	0
56	1G	81	Total 81	Mg 81	0	0
56	2L	3	Total 3	Mg 3	0	0
56	14	382	Total 382	Mg 382	0	0

Continued on next page...

Continued from previous page...

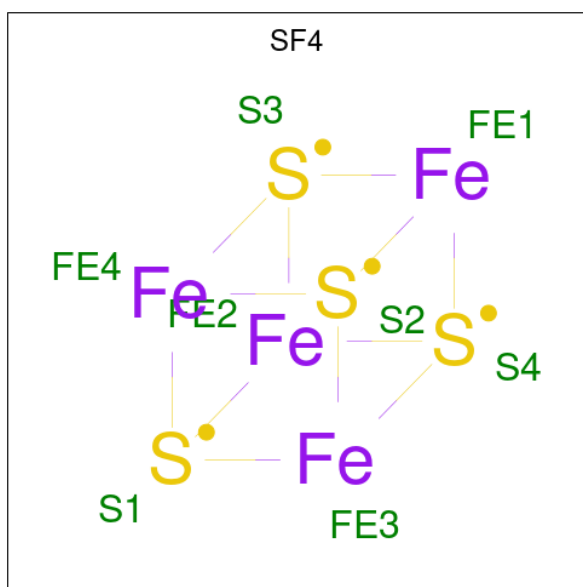
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1J	5	Total	Mg	0	0
			5	5		
	29	1	Total	Mg		
			1	1		
	39	1	Total	Mg		
56	35	1	Total	Mg	0	0
			1	1		
	45	3	Total	Mg		
			3	3		
	85	1	Total	Mg		
56	C5	1	Total	Mg	0	0
			1	1		
	E5	1	Total	Mg		
			1	1		

- Molecule 57 is PAROMOMYCIN (CCD ID: PAR) (formula: C₂₃H₄₅N₅O₁₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
57	13	1	Total	C	N	O	0	0
			42	23	5	14		
57	1G	1	Total	C	N	O	0	0
			42	23	5	14		

- Molecule 58 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
58	3E	1	Total	Fe	S	0	0
			8	4	4		
58	32	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 59 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	5I	1	Total	Zn	0	0
			1	1		
59	G8	1	Total	Zn	0	0
			1	1		
59	5A	1	Total	Zn	0	0
			1	1		
59	C5	1	Total	Zn	0	0
			1	1		

- Molecule 60 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	13	144	Total	O	0	0
			144	144		
60	3E	2	Total	O	0	0
			2	2		
60	1I	2	Total	O	0	0
			2	2		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	5I	2	Total 2	O 2	0	0
60	6I	1	Total 1	O 1	0	0
60	7I	1	Total 1	O 1	0	0
60	BI	1	Total 1	O 1	0	0
60	3K	1	Total 1	O 1	0	0
60	4K	3	Total 3	O 3	0	0
60	1H	540	Total 540	O 540	0	0
60	16	22	Total 22	O 22	0	0
60	11	10	Total 10	O 10	0	0
60	31	7	Total 7	O 7	0	0
60	58	2	Total 2	O 2	0	0
60	78	4	Total 4	O 4	0	0
60	98	1	Total 1	O 1	0	0
60	G8	1	Total 1	O 1	0	0
60	I8	2	Total 2	O 2	0	0
60	L8	3	Total 3	O 3	0	0
60	P8	1	Total 1	O 1	0	0
60	1G	68	Total 68	O 68	0	0
60	32	2	Total 2	O 2	0	0
60	14	367	Total 367	O 367	0	0
60	1J	12	Total 12	O 12	0	0

Continued on next page...

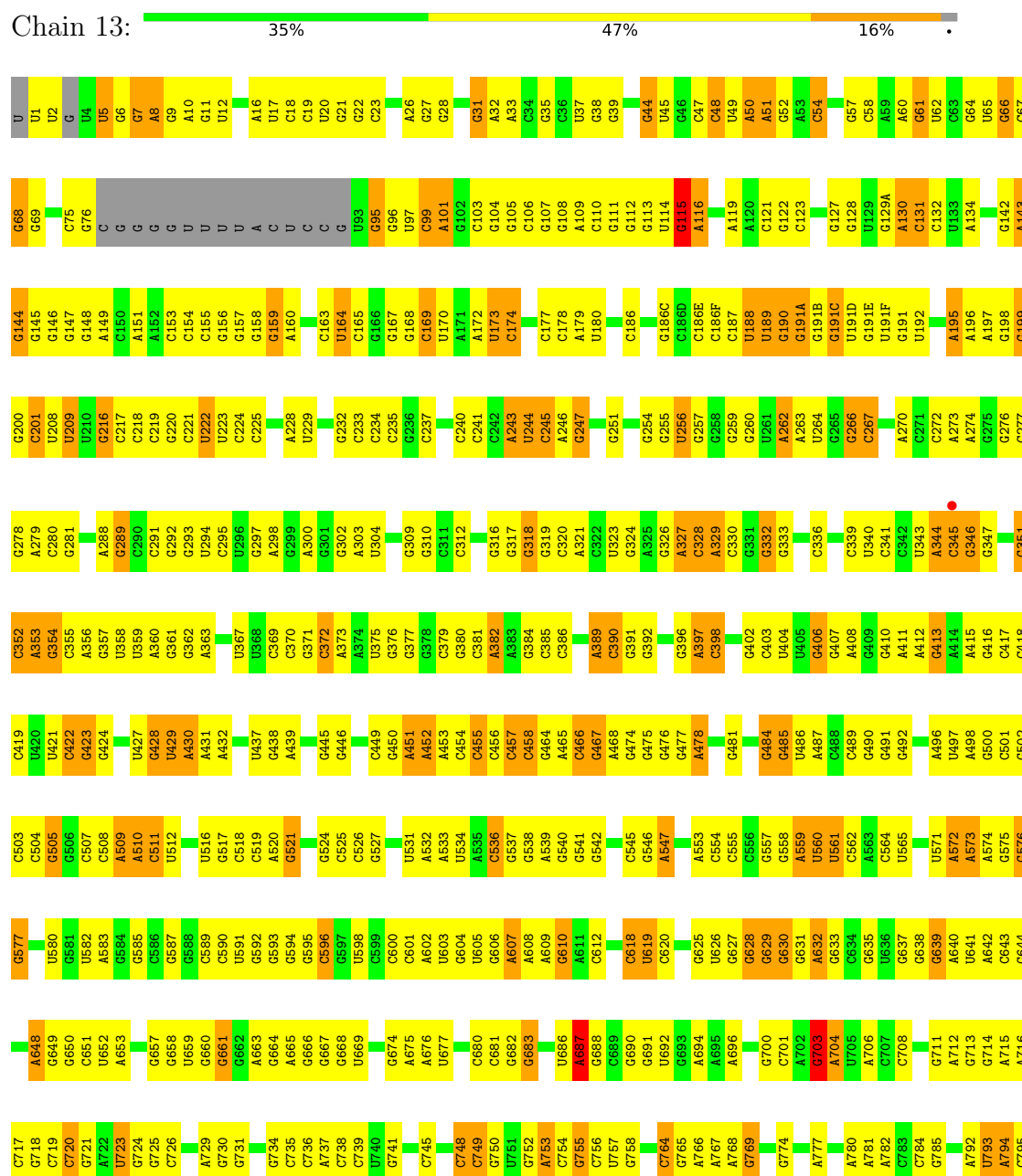
Continued from previous page...

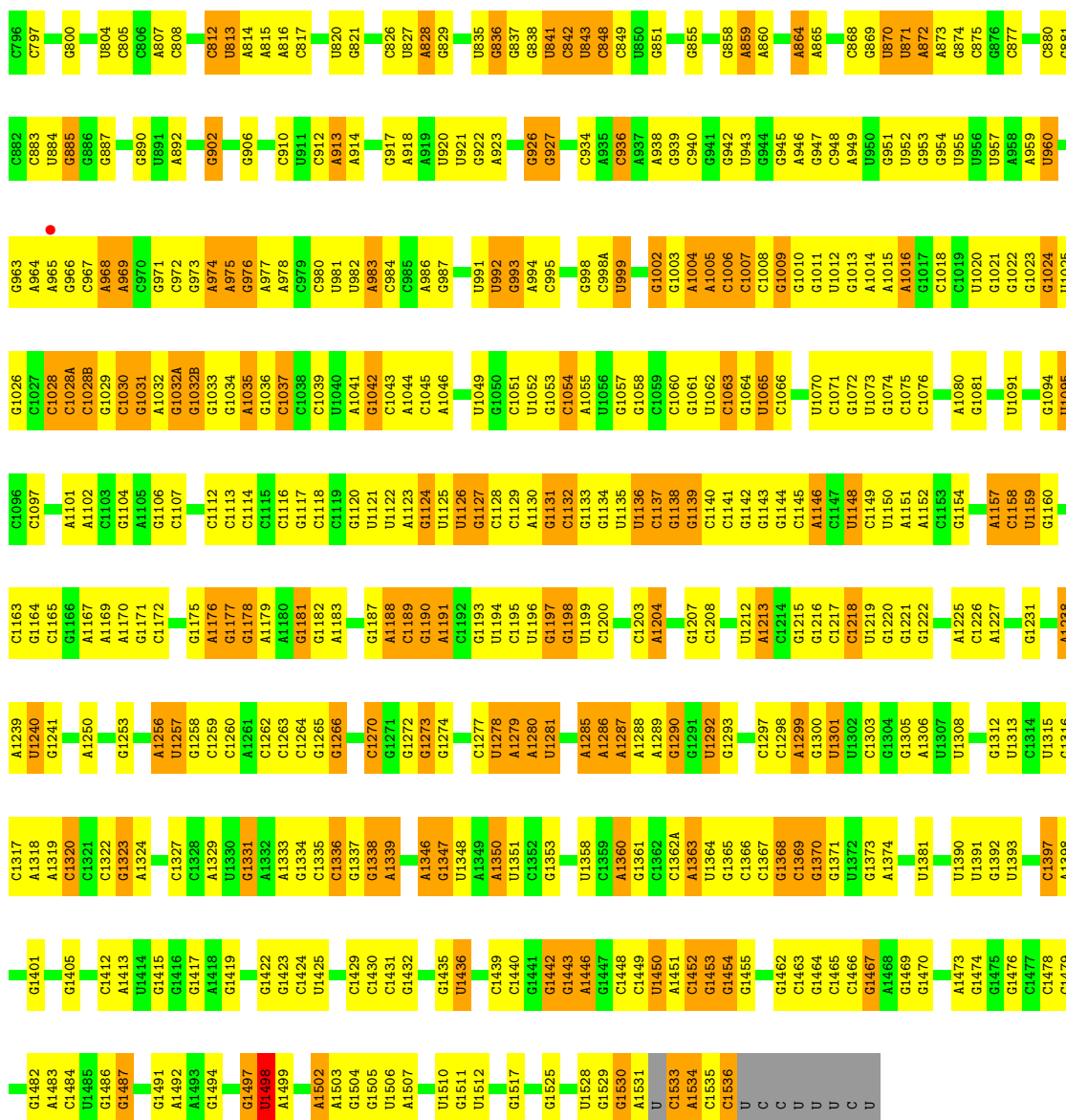
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	19	8	Total 8	O 8	0	0
60	29	2	Total 2	O 2	0	0
60	39	3	Total 3	O 3	0	0
60	35	2	Total 2	O 2	0	0
60	55	2	Total 2	O 2	0	0
60	H5	1	Total 1	O 1	0	0
60	L5	1	Total 1	O 1	0	0

3 Residue-property plots

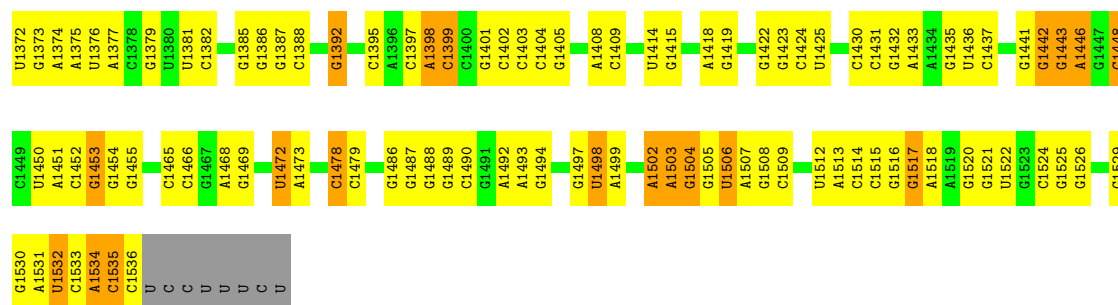
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 16S rRNA

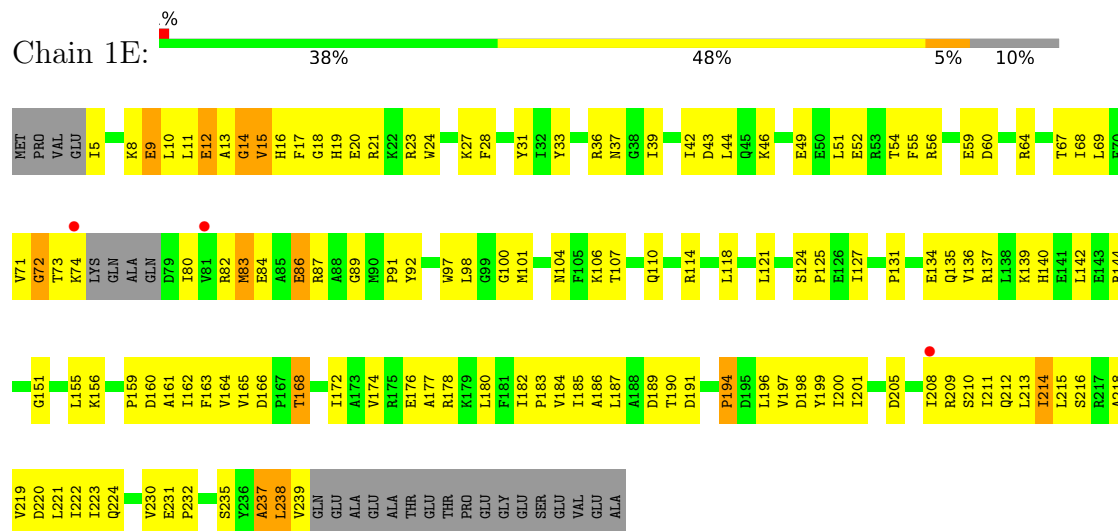




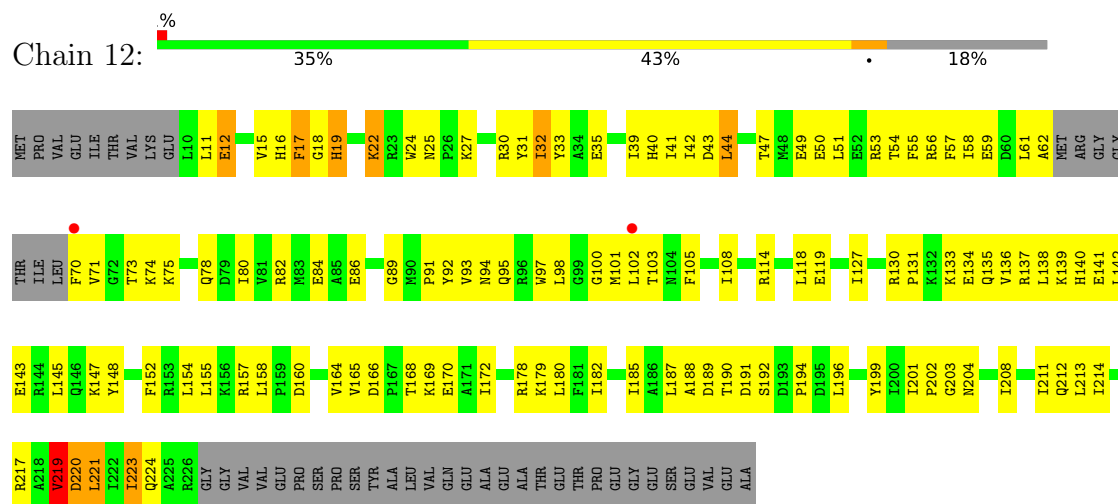
G1309	A1248	G1184	G1117	C1051	U992	G937	G741	G588	G521	G438	U367	G289
G1312	G1249	G1187	C1118	U1052	G993	G838	G742	C589	G527	A439	G371	U296
U1313	A1250	G1053	C1119	G1054	A994	U920	U743	C590	G528	G446	G372	G297
G1314	A1251	A1188	G1120	C1054	G995	U921	G744	U591	G529	G447	A373	A300
U1315	G1253	C1189	U1121	A1055	A996	G922	G745	G592	G530	A448	A374	
G1316	A1254	G1190	U1122	C1055	U997	C924	G746	G593	G531	C449	U375	
C1317	G1255	A1191	A1123	C1059	G998	G925	G747	G594	U531	G450	G376	A303
A1318	G1256	G1192	G1124	G1060	C998A	G926	G748	G595	A532	A451	G377	U304
C1319	A1257	G1193	U1125	G1061	U999	G927	G749	C596	A533	G452	G377	G305
G1320	U1258	C1194	U1126	U1062	A1000	G928	G750	G597	U534			
C1321	C1259	G1195	G1127	C1063	G1001	G929	U751	U598	A535	A453	A382	
G1322	G1260	U1196	C1128	G1064	G1002	G930	G752	C599	C536			
C1323	A1261	G1197	C1129	A1067	G1003	G934		C600	G537	C456	A383	C308
A1324	G1262	G1198	A1130	G1068	A1004	A935	G755	C601	G538	C457	C385	G309
C1325		U1199	G1131	C1069	A1005		G756	A602	A539	C458	C386	G310
G1326	G1265	C1200	C1132	U1070	G1006	A938	U757	U603	G540	G464	G387	G317
C1327	U1266	G1133	G1134	C1071	C1007		G758	G604	G541	A465	G388	G318
G1328	G1267	G1135	U1135	G1072	G1008	G942	A759	U605	G542	C466	A389	G319
A1329	A1268	U1136	U1136	U1073	G1009		G760	G606	C543	G467	C390	C320
U1330	U1205					A946	G761	A607	G544	A468	C391	A321
G1331	G1270	A1014	A1015	G1077	C1018	G947	G762	A608		G474	G392	
A1332	C1271	U1078		U1078	U1019	C948	G763	A609	A547	G475	A393	A325
C1333	G1272	G1079	C1018	G1079	C1019	A949	G764	C613	G550	G476	G396	A326
G1334	G1273	A1080	U1020	A1080	U1020			A614	U552	U480	A397	A327
C1335	C1274	G1081	U1021	U1082	G953	G952	G765	C615	A553	G481	C398	A328
G1336	U1211	U1082	G1143	G1083	G954		G768	C616	G554	A482		A329
A1337	A1275	U1083	G1144	U1084	U955	G954	G770	G617	C555	C483	C401	G332
C1338	G1276	G1084	C1145	G1085	U956	G955	G771	U618	C556	G484	G402	G333
G1339	U1277	U1085	U1024	U1086	U957		U772	U619		G485	C403	C334
	A1279	C1147	U1025	U1086	G958		A777	A621	A559	U486	U404	C335
C1342	U1280	G1216	G1026	U1087	U960	G960	G778	A622	U560	A487	U405	C336
G1343	U1281	C1217	C1027	G1088	U961	G961		C623	U561	C489	G406	C339
C1344	G1282	U1150	U1089	U1089	A964		A782	G624	G490	G491	G407	U340
U1345	G1283	C1218	C1028A	U1090	G965	G965	U789	C625	A563	G492	G410	C341
A1346	C1284	U1219	G1029	U1091	G966		G791	U626	C564	G493	A411	U343
G1347	G1285	G1221	C1153	A1092	C967		G792	G627	U565	U494	A412	A344
U1348	A1286	G1222	G1154	A1093	A968	A892	U793	G628	G566	A495	G413	C345
A1349	G1287	C1223	G1155	U1094	A969	C893	A794	G629	G567	A496	A414	G346
C1350	U1288	G1224	G1156	C1095	G970	G894		G630	C568	U497	A415	G347
U1351	A1289	A1225	A1157	C1096	G971	G895	A706	G631	C569		G416	G348
G1352	G1290	C1226	C1158	C1097	C972	C896	C707	A632	G570	C501	C417	A349
C1353	U1291	U1227	U1159	G1098	G973		C708	G633	U571	G502		G350
G1354	U1292		G1160	G1099	A974	A900	G713	C634	A572	C503	U420	G351
C1355	G1293	U1232	C1161	C1100	A1035	A901		G635	A573	G504	U421	C352
G1356	G1294	G1233	A1162	A1101	G1036	G976	U723	U636	A574	G505	G422	A353
A1357	U1295	C1234	C1163	A1102	C1037	G902	G724	G637	G575	G506	G423	G354
C1358	C1296	U1235	G1164	C1103	G1038	G903	G725	G638	G576	C507	G424	C355
G1359	U1297	A1236	C1165	G1104	C1039	A978		G639	G577	C508	G425	A356
A1360	C1298	C1237	G1166	A1105	U1040	C979	G818	A640	G578	A509		
G1361	A1298	U1238		G1106	A1041	C980	A819	U641	G579	A510	G428	U359
C1362	G1300	A1239	G1171	C1107	G1042	U981	U820	A642	U580	C511	A360	G360
U1363A	U1240	C1362A	G1177	U1108	C1043	U982	G731	G643	U581	U512	A430	G361
A1363	G1241	G1241	U1109	C1109	A1044	A983	C732	G644	U582	C513		G362
C1364	C1242	C1242	G1178	A1110	G1045	C984	U827	C645	U583		C433	A363
U1364	G1303	G1243	A1179	A1111	A1046	C985	A828	U646	G584	C518	C436	A364
G1365	G1305	C1244	A1180	C1112	G1047	A986	G829	C647	G585	C519	U437	U365
A1306	A1306	U1245	G1181	C1113	U1048	G987	U831	A648	C586			
G1370	U1307	C1246	G1182	C1114	G1049	G917		G649	G587	A520	U437	C366
G1371	U1308	U1247	A1183		G1050	A918	U740					



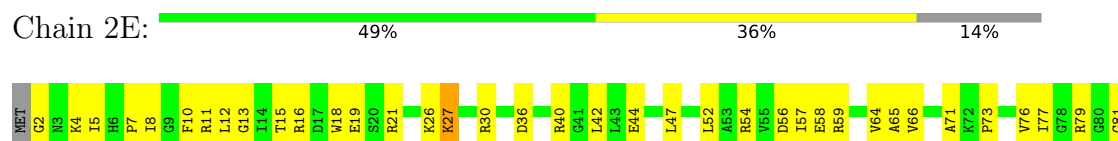
• Molecule 2: 30S ribosomal protein S2

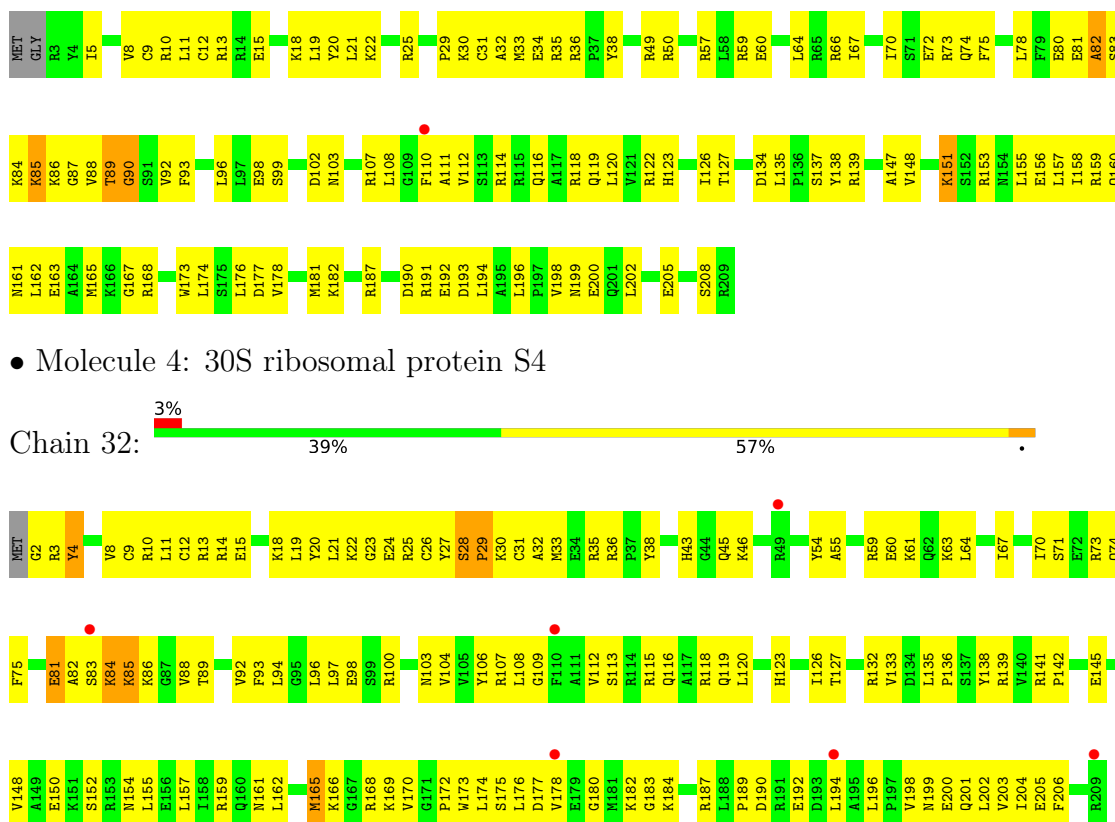


• Molecule 3: 30S ribosomal protein S3

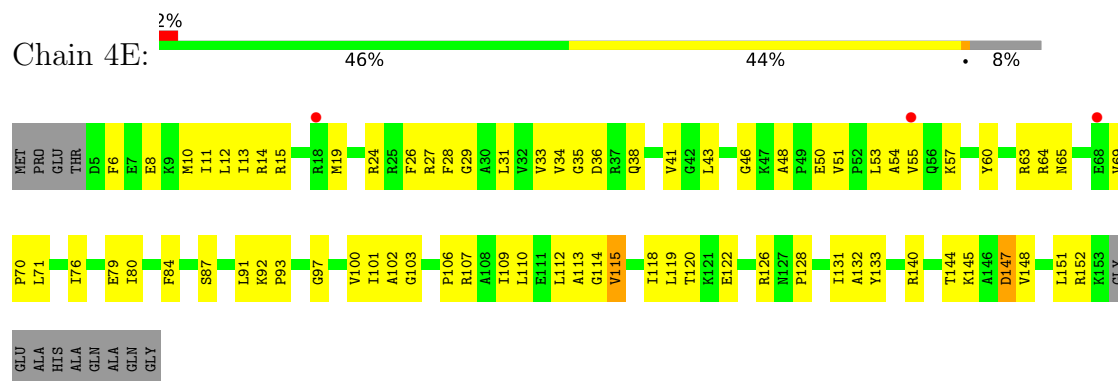


• Molecule 3: 30S ribosomal protein S3

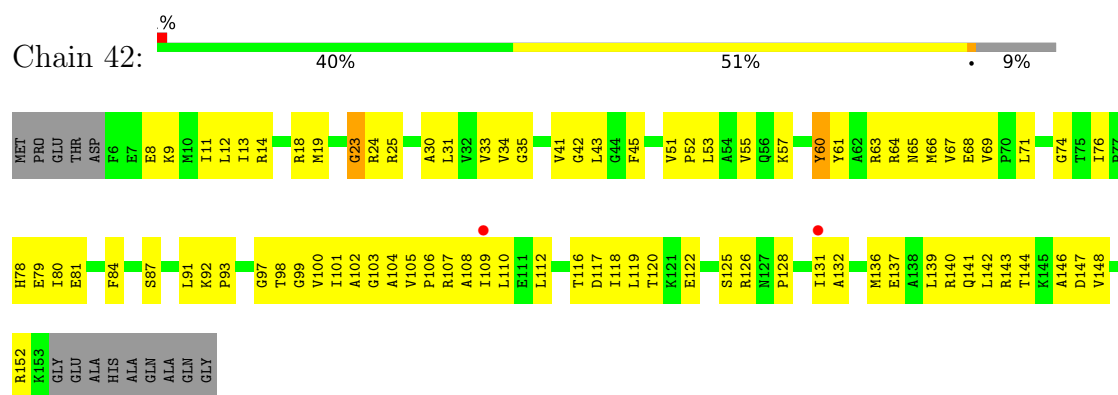




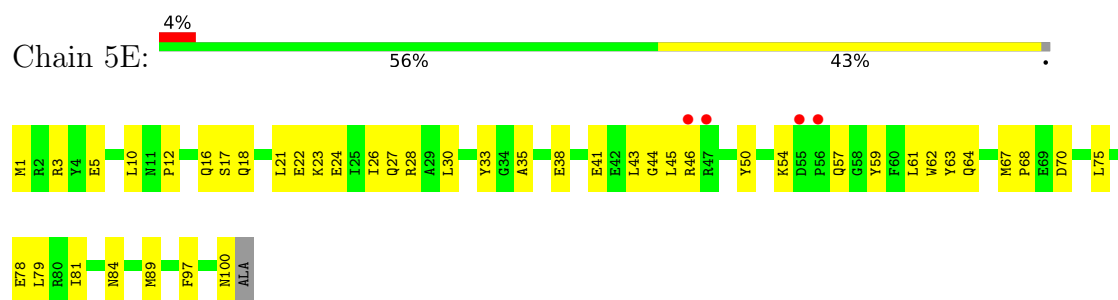
- Molecule 5: 30S ribosomal protein S5



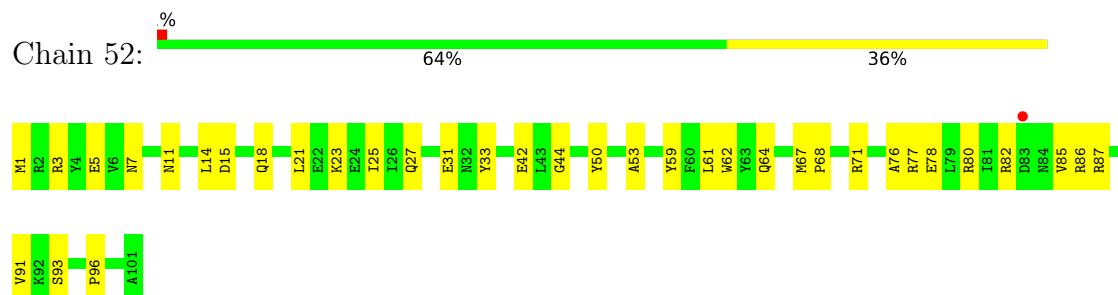
- Molecule 5: 30S ribosomal protein S5



- Molecule 6: 30S ribosomal protein S6

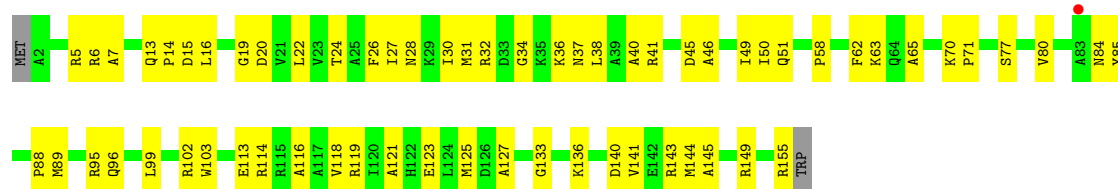


- Molecule 6: 30S ribosomal protein S6

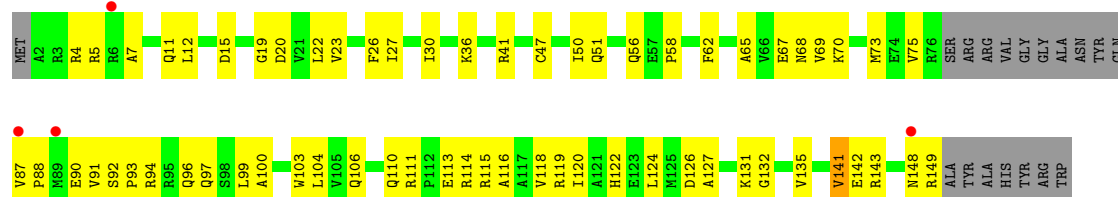


- Molecule 7: 30S ribosomal protein S7

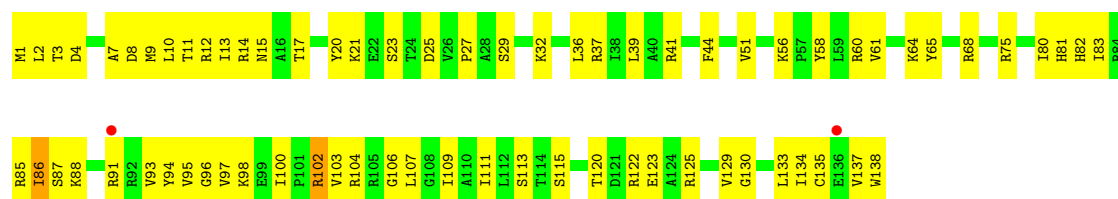




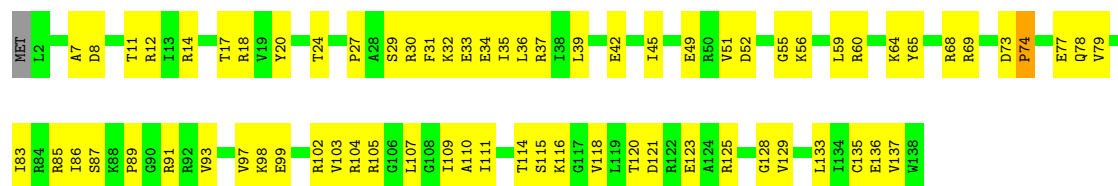
• Molecule 7: 30S ribosomal protein S7



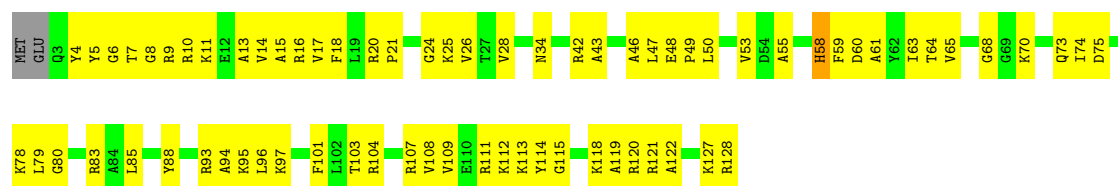
• Molecule 8: 30S ribosomal protein S8



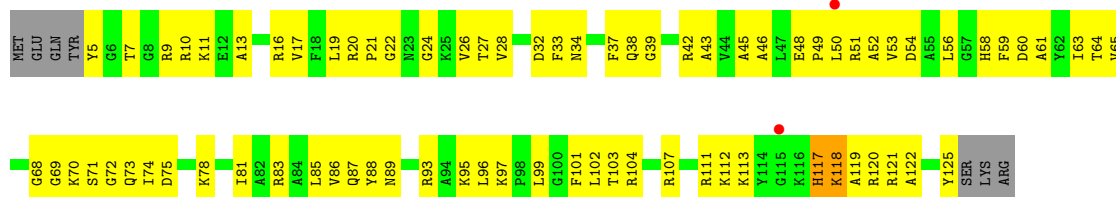
• Molecule 8: 30S ribosomal protein S8



• Molecule 9: 30S ribosomal protein S9



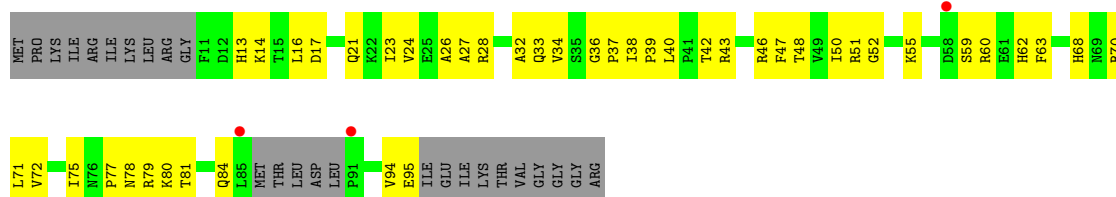
• Molecule 9: 30S ribosomal protein S9



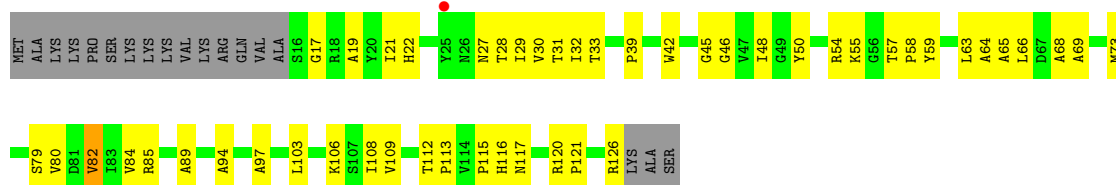
- Molecule 10: 30S ribosomal protein S10



- Molecule 10: 30S ribosomal protein S10



- Molecule 11: 30S ribosomal protein S11

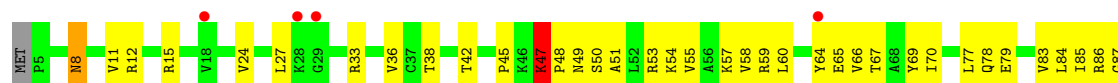


- Molecule 11: 30S ribosomal protein S11





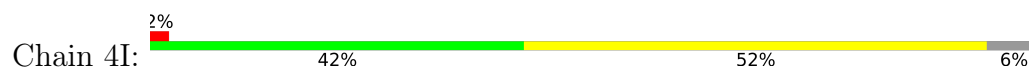
• Molecule 12: 30S ribosomal protein S12



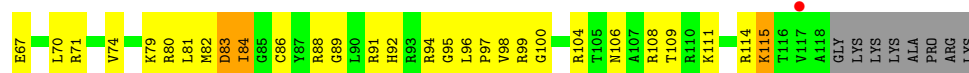
• Molecule 12: 30S ribosomal protein S12



• Molecule 13: 30S ribosomal protein S13

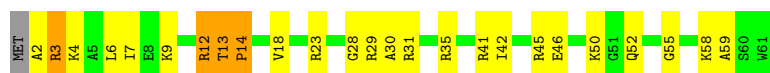


• Molecule 13: 30S ribosomal protein S13



• Molecule 14: 30S ribosomal protein S14 type Z

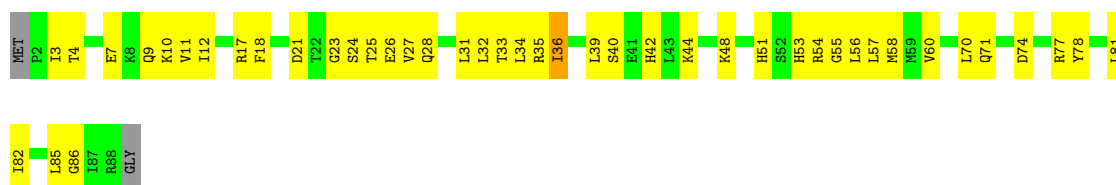




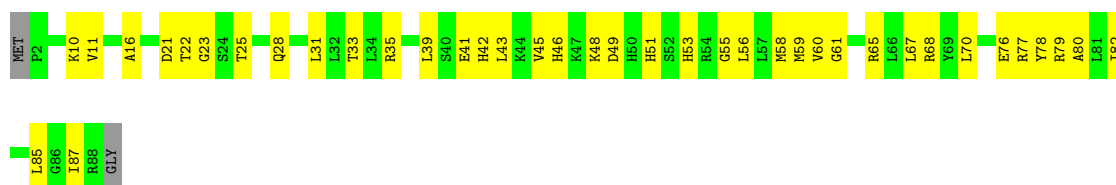
- Molecule 14: 30S ribosomal protein S14 type Z



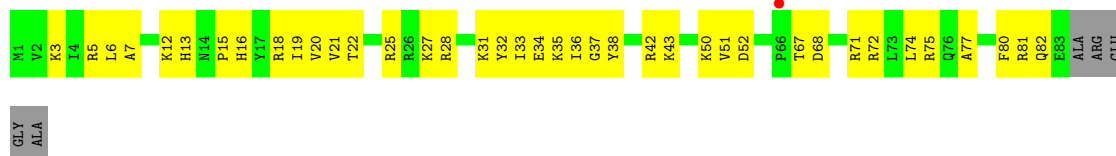
- Molecule 15: 30S ribosomal protein S15



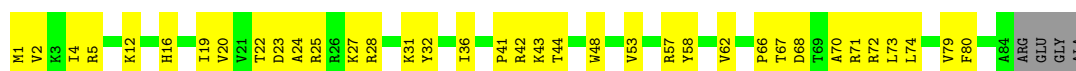
- Molecule 15: 30S ribosomal protein S15



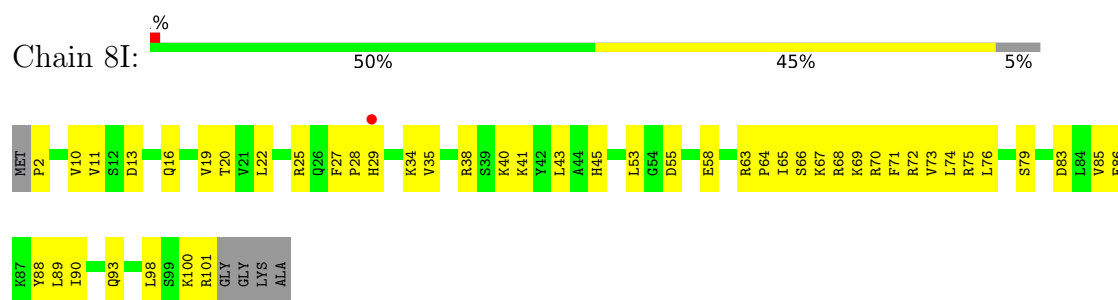
- Molecule 16: 30S ribosomal protein S16



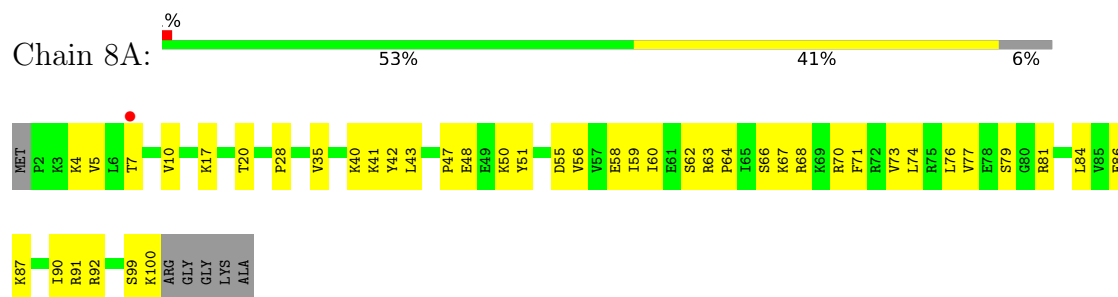
- Molecule 16: 30S ribosomal protein S16



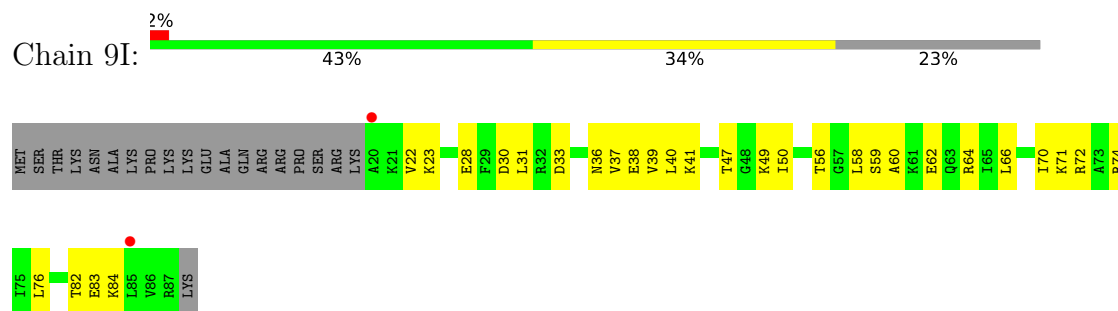
- Molecule 17: 30S ribosomal protein S17



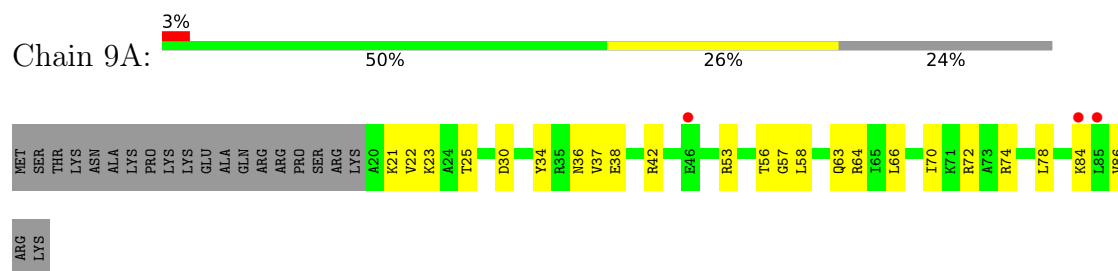
- Molecule 17: 30S ribosomal protein S17



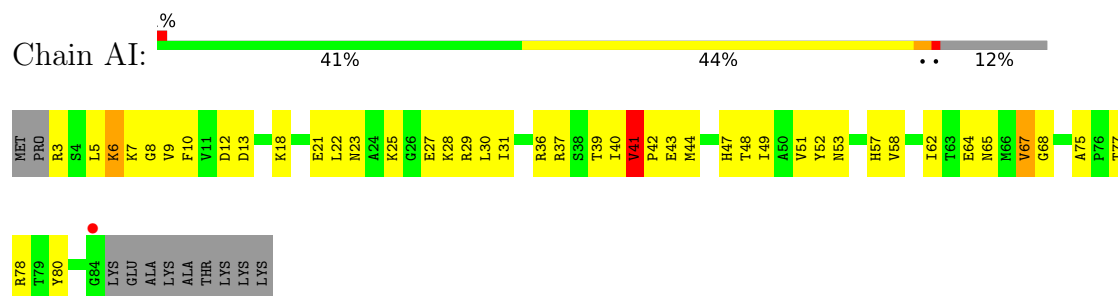
- Molecule 18: 30S ribosomal protein S18



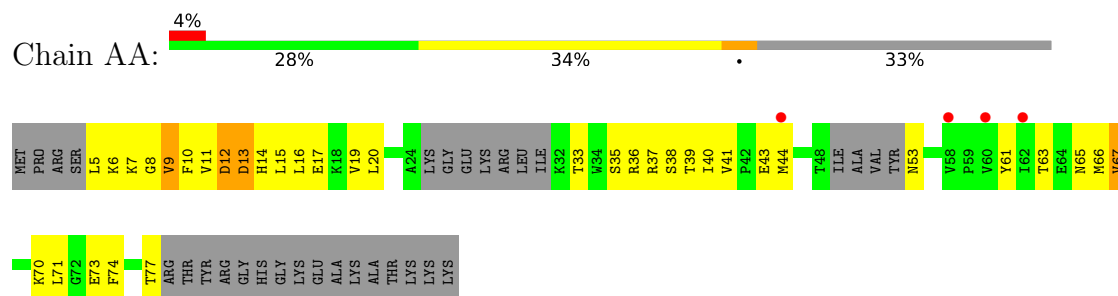
- Molecule 18: 30S ribosomal protein S18



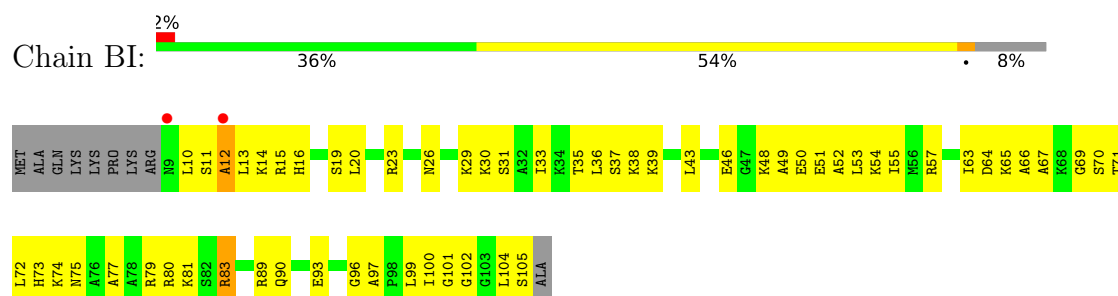
- Molecule 19: 30S ribosomal protein S19



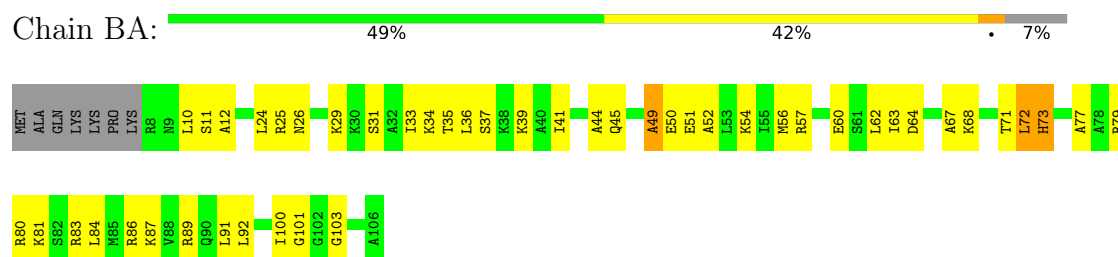
- Molecule 19: 30S ribosomal protein S19



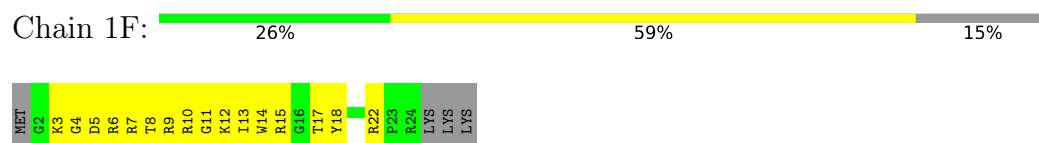
- Molecule 20: 30S ribosomal protein S20



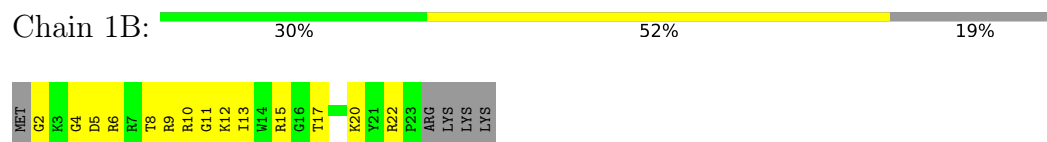
- Molecule 20: 30S ribosomal protein S20



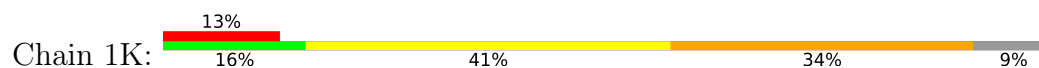
- Molecule 21: 30S ribosomal protein Thx

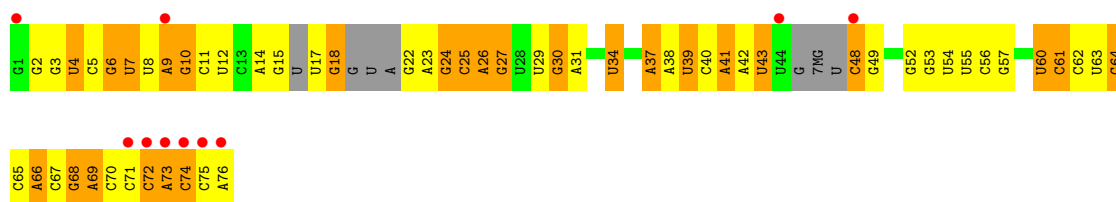


- Molecule 21: 30S ribosomal protein Thx

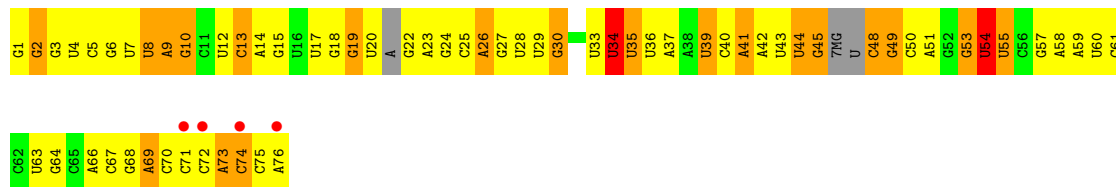
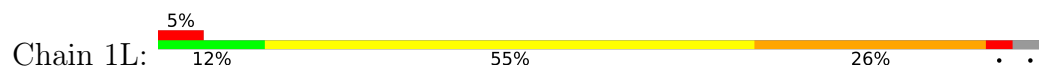


- Molecule 22: tRNA^{Lys}

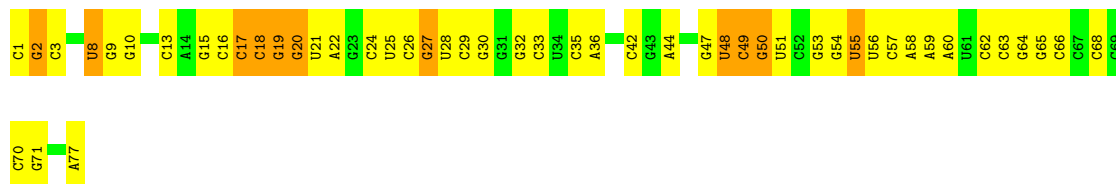




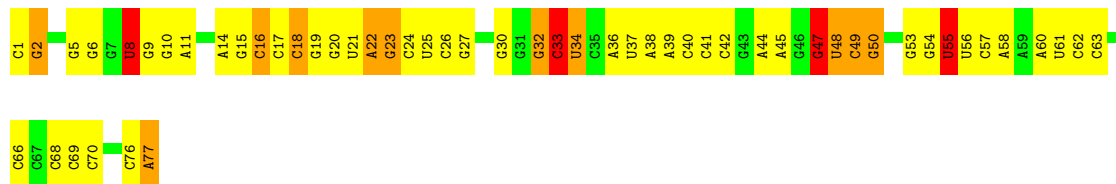
- Molecule 22: tRNA^{Lys}



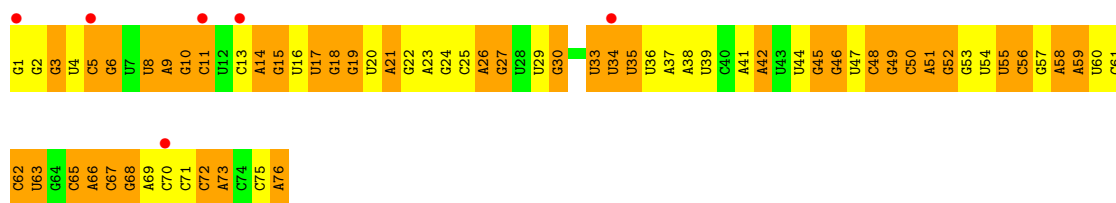
- Molecule 23: E. coli tRNA^{fMet}



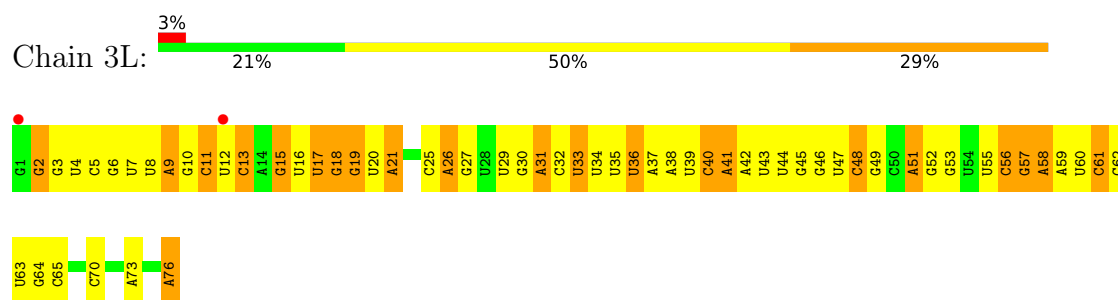
- Molecule 23: E. coli tRNA^{fMet}



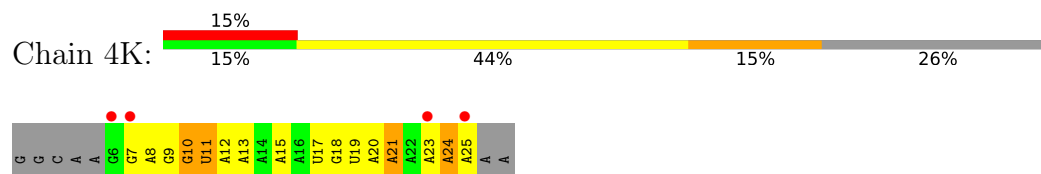
- Molecule 24: tRNA^{Lys}



- Molecule 24: tRNA^{Lys}



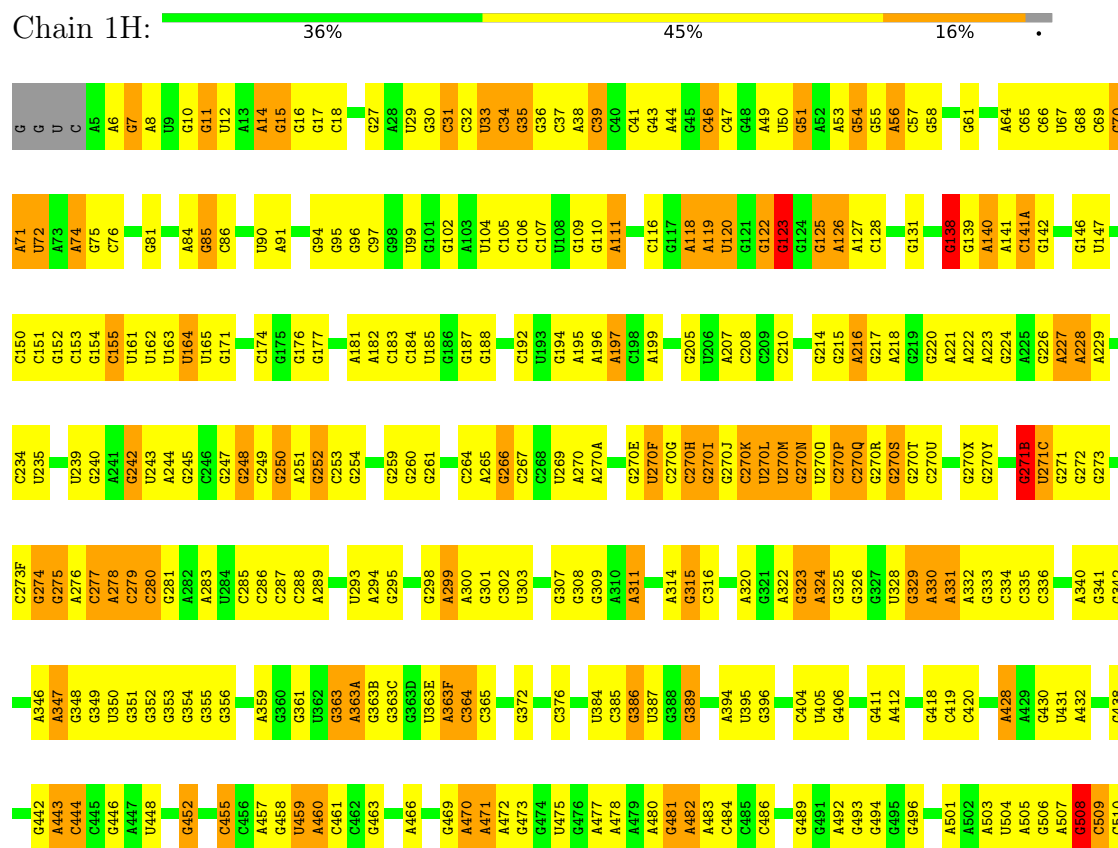
• Molecule 25: mRNA



• Molecule 25: mRNA

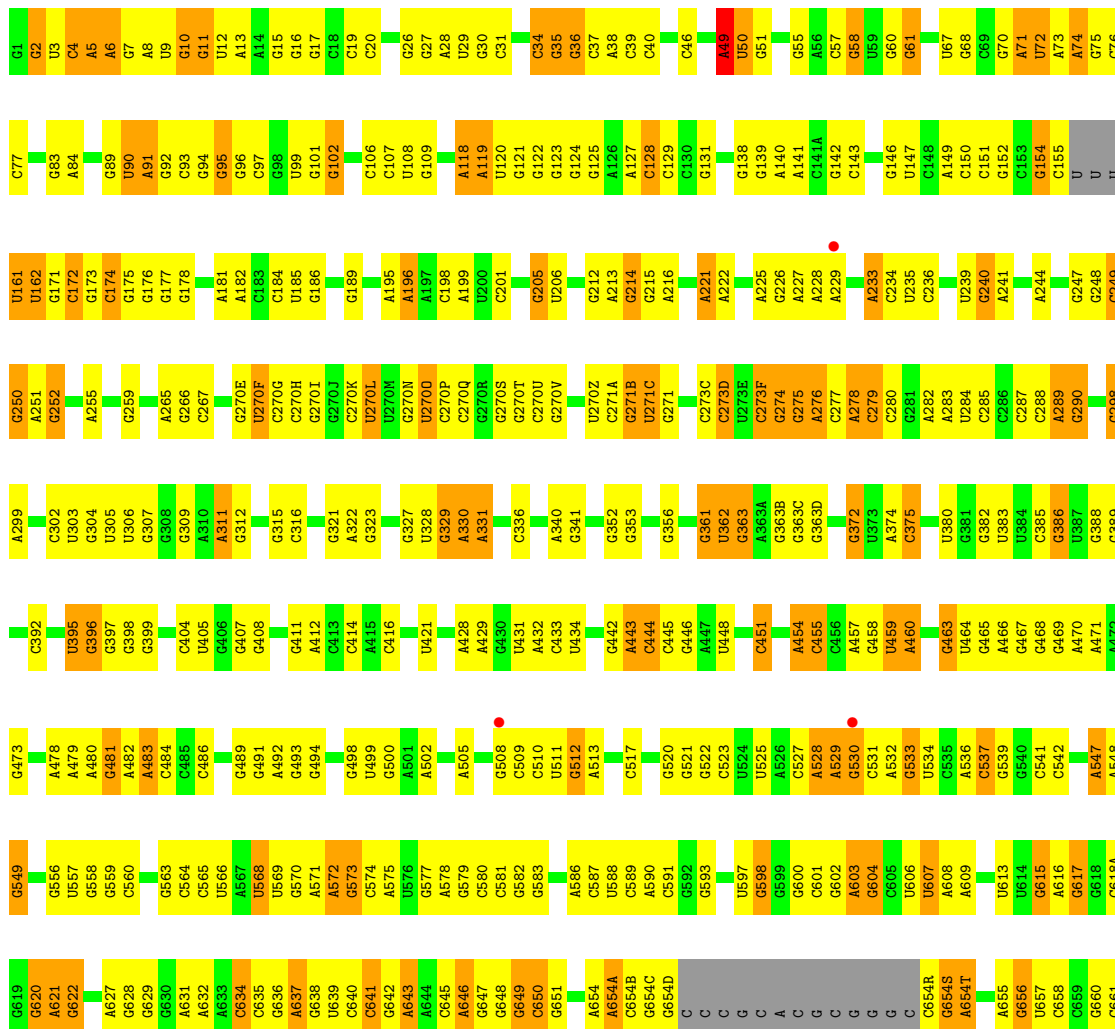


• Molecule 26: 23S rRNA



U1433	A1365	C1291	A1214	G1144	G1011	G934	C850	G775	G702	G650	G583	U511
A1434	C1370	U1292	C1218	C1145	U1012	C935	U851	G776	U703	G651	G582	G512
C1437	G1371	G1296	G1219	C1146	C1013	C936	C857	U779	G704	C652	C587	A513
G1440	U1372	C1297	A1220	G1149	G1016	G938	U858	G780	U709	A654	U588	A514
G1441	A1373	C1298	C1221	G1150	U1019	A941	G859	A781	G710	A654A	C517	C517
G1442	G1374	U1299	C1222	G1151	A1020	G942	U860	A782	G711	A654B	G518	G518
G1443	C1375	U1300	C1223	G1154	A1021	U943	A861	A783	G712	G654C	U519	U519
G1444	C1376	A1301	G1224	A1155	G1022	G944	A863	A784	G713	C	G593	G593
A1444A	G1377	A1302	C1225	A1156	U1023	A945	G864	G785	U714	G654D	U594	U524
G1447	A1378	G1303	G1226	A1157	G1024	G946	C865	U787	G715	C	C	C
G1448	A1379	G1311	A1227	C1161	G1025	G950	A866	C790	G716	C	U597	C527
A1449	G1380	U1312	G1228	G1164	U1026	C951	A870	G791	A718	C	G598	A528
G1449A	A1384	U1313	G1229	U1165	A1027	G952	A879	G792	C719	A	G599	A529
A1453	C1385	G1316	C1230	G1166	U1033	A953	G879	A793	C720	C	G600	G530
U1454	C1386	U1317	G1231	U1167	G1034	G954	G880	G794	C721	C	G601	G531
G1455	G1387	C1318	U1234	U1168	U1035	A957	G881	G795	A722	C	A603	A532
G1456	A1392	G1319	A1237	G1169	G1036	U958	G882	C796	G723	G654N	G604	U534
A1457	A1393	C1320	G1238	G1170	U1037	A959	G	C797	U724	G654P	C505	C537
C1458	G1394	A1321	G1239	G1171	C1038	A960	C	A802	G725	G654Q	U606	G539
G1459	U1394	U1322	U1240	G1172	G1039	C961	C	A803	A727	C654R	G607	G540
A1460	A1395	G1323	A1241	U1174	C1040	G962	A	A804	A734	G654S	A609	G549
G1461	U1396	C1324	A1244	U1175	G1041	A962	C	G805	G735	A654T	G609A	G550
G1462	U1397	G1328	G1244	G1176	G1042	U968	C	G806	G736	A	C510	C543
G1465	C1398	U1329	G1245	C1177	G1043	U969	A	U807	C731	G655	G611	G544
G1466	G1400	A1330	G1250	C1178	A1045	C970	C	G808	C732	G656	G612	G545
C1467	C1401	A1331	A1253	C1179	A1046	G971	G	C811	C733	G657	U613	C546
A1468	C1402	C1332	A1257	C1180	G1047	A973	C893	U811	A735	G658	U614	A548
A1469	A1403	G1334	G1256	G1181	A1048	C974	U895	C812	G736	G659	G615	G549
G1470	C1404	U1335	C1257	G1182	G1049	G975	A	C817	G737	G660	A616	G551
A1471	A1405	A1336	G1260	C1183	A1050	G976	C897	G818	G738	G661	G620	G552
A1472	U1406	G1337	C1261	G1184	G1051	G977	C898	C819	G739	G662	A621	U553
G1473	C1407	U1338	A1262	G1185	C1052	C982	A899	U822	A746	U667	G622	U557
C1474	A1408	U1339	U1263	U1186	C1053	A983	A900	G823	U747	G668	G627	G558
G1475	A1412	U1340	G1264	A1189	A	G	A901	A824	G748	G669	U628	G559
A1477	G1413	U1341	A1265	G1190	G	G	G906	U827	A751	A670	G629	C560
G1478	G1414	G1344	A1266	G1191	U	U	U907	U828	A752	C671	U561	U562
G1479	U1415	C1345	U1267	G1192	A	A	G906	A829	C753	C672	A632	G563
G1480	G1416	G1346	A1268	G1193	U	U	A910	G830	C754	C673	A633	C564
U1482	C1417	G1347	A1269	G1194	U	C991	A911	G831	C755	G674	C634	C565
G1483	G1418	G1348	C1270	G1195	G	G993	C912	G832	C756	A675	C635	U566
G1484	A1419	A1349	G1271	C1196	C	C994	G916	U833	U757	A676	G636	A567
G1485	U1420	C1350	A1272	G1197	U	C995	A917	G836	G760	A677	A638	U568
A1486	G1421	U1351	U1273	C1201	U	A996	A918	C837	A761	G681	U639	U569
G1487	G1422	U1352	A1274	U1130	U	G997	A918	C838	U762	G682	C640	A571
G1490	G1423	A1353	A1275	C1135	A	A1000	U922	C839	G763	C687	C641	A572
G1491	G1424	U1205	U1276	G1136	G	U922	C923	C840	A764	G686	G642	G573
G1492	G1425	G1355	A1278	G1137	A	G1003	A926	C844	G768	G690	A643	C574
C1493	G1426	G1356	C1279	G1138	A	C1005	G928	G845	G771	A699	G644	A575
A1494	A1427	U1357	G1280	G1139	C	C1006	G929	C846	G772	G700	A645	G576
G1495	C1428	G1358	G1209	C1140	A	C1006	G932	U847	A774	G701	G646	G577
A1496	G1429	A1359	A1287	U1141	C	A1009	G932	C848	C773	A699	G647	C580
A1496	C1430	A1360	U1288	U1142	G	A1009	G932	U847	A774	G700	G648	C581
U1497	A1431	G1212	C1289	A1143	C	A1010	A933	A849				

C2480	C2481	C2484	A2488	G2489	U2492	G2338	G2271	G2191	G2127	A2059	C1982	G1904	A1819	G1746	C1648	G1563	G1500
C2402	C2403	C2404	G2405	G2406	G2407	G2339	U2272	G2192	C2128	A2060	C1985	C1905	U1820	G1746	C1649	C1564	G1501
C2405	C2406	C2407	C2408	G2409	G2410	G2340	A2273	G2193	C2129	A2061	G1986	C1906	A1821	A1749	G1650	C1565	C1502
C2408	C2409	G2410	C2411	C2412	C2413	G2341	C2275	U2197	C2130	A2062	G1987	G1907	G1822	C1750	A1507	A1507	A1507
C2410	C2411	C2412	C2413	C2414	C2415	G2342	G2276	U2198	C2131	C2063	G1988	U1911	G1823	C1751	A1508	C1508	C1509
C2411	C2412	C2413	C2414	C2415	C2416	G2343	G2277	A2199	C2132	C2064	G1989	A1912	G1824	C1752	A1509	C1509	C1510
C2412	C2413	C2414	C2415	C2416	C2417	G2344	A2278	C2205	C2133	C2065	G1990	A1913	G1825	C1753	A1510	C1510	A1511
C2413	C2414	C2415	C2416	C2417	C2418	G2345	G2279	C2206	C2134	C2066	G1991	A1914	G1826	C1754	A1511	C1511	C1512
C2414	C2415	C2416	C2417	C2418	C2419	G2346	G2280	C2207	C2135	C2067	G1992	A1915	G1827	C1755	A1512	C1512	C1513
C2415	C2416	C2417	C2418	C2419	C2420	G2347	C2281	U2208	C2136	U2068	C1993	U1916	G1828	C1756	A1513	C1513	C1514
C2416	C2417	C2418	C2419	C2420	C2421	G2348	G2282	C2209	C2137	G2069	C1994	A1917	G1829	C1757	A1514	C1514	C1515
C2417	C2418	C2419	C2420	C2421	C2422	G2349	C2283	G2210	C2138	G2070	C1995	U1918	G1830	C1758	A1515	C1515	C1516
C2418	C2419	C2420	C2421	C2422	C2423	G2350	G2284	G2211	C2139	U2074	G1996	A1919	G1831	C1759	A1516	C1516	C1517
C2419	C2420	C2421	C2422	C2423	C2424	G2351	A2286	A2212	U2144	U2075	G1997	A1920	G1832	C1760	A1517	C1517	C1518
C2420	C2421	C2422	C2423	C2424	C2425	G2352	A2287	A2213	C2145	U2076	G1998	C1920	G1833	C1761	A1518	C1518	C1519
C2421	C2422	C2423	C2424	C2425	C2426	G2353	A2288	G2215	C2146	U2077	G1999	C1921	G1834	C1762	A1519	C1519	C1520
C2422	C2423	C2424	C2425	C2426	C2427	G2354	G2289	G2216	C2147	A2077	G2000	C1922	G1835	C1763	A1520	C1520	C1521
C2423	C2424	C2425	C2426	C2427	C2428	G2355	G2290	G2217	C2148	C2081	U2011	A1923	G1836	C1764	A1521	C1521	C1522
C2424	C2425	C2426	C2427	C2428	C2429	G2356	U2291	G2224	C2149	A2082	C2012	A1924	G1837	C1765	A1522	C1522	C1523
C2425	C2426	C2427	C2428	C2429	C2430	G2357	C2292	G2225	C2150	U2083	C2013	A1925	G1838	C1766	A1523	C1523	C1524
C2426	C2427	C2428	C2429	C2430	C2431	G2358	U2296	G2226	C2151	U2084	C2014	A1926	G1839	C1767	A1524	C1524	C1525
C2427	C2428	C2429	C2430	C2431	C2432	G2359	U2297	G2227	C2152	G2087	C2015	A1927	G1840	C1768	A1525	C1525	C1526
C2428	C2429	C2430	C2431	C2432	C2433	G2360	U2298	G2228	C2153	U2091	C2016	A1928	G1841	C1769	A1526	C1526	C1527
C2429	C2430	C2431	C2432	C2433	C2434	G2361	U2299	G2229	C2154	U2092	C2017	A1929	G1842	C1770	A1527	C1527	C1528
C2430	C2431	C2432	C2433	C2434	C2435	G2362	U2300	G2230	C2155	U2093	C2018	A1930	G1843	C1771	A1528	C1528	C1529
C2431	C2432	C2433	C2434	C2435	C2436	G2363	U2301	G2231	C2156	G2094	C2019	A1931	G1844	C1772	A1529	C1529	C1530
C2432	C2433	C2434	C2435	C2436	C2437	G2364	U2302	G2232	C2157	G2095	C2020	A1932	G1845	C1773	A1530	C1530	C1531
C2433	C2434	C2435	C2436	C2437	C2438	G2365	U2303	G2233	C2158	G2096	C2021	A1933	G1846	C1774	A1531	C1531	C1532
C2434	C2435	C2436	C2437	C2438	C2439	G2366	U2304	G2234	C2159	G2097	C2022	A1934	G1847	C1775	A1532	C1532	C1533
C2435	C2436	C2437	C2438	C2439	C2440	G2367	U2305	G2235	C2160	G2098	C2023	A1935	G1848	C1776	A1533	C1533	C1534
C2436	C2437	C2438	C2439	C2440	C2441	G2368	U2306	G2236	C2161	U2099	C2024	A1936	G1849	C1777	A1534	C1534	C1535
C2437	C2438	C2439	C2440	C2441	C2442	G2369	U2307	G2237	C2162	U2100	C2025	A1937	G1850	C1778	A1535	C1535	C1536
C2438	C2439	C2440	C2441	C2442	C2443	G2370	U2308	G2238	C2163	G2101	C2026	A1938	G1851	C1779	A1536	C1536	C1537
C2439	C2440	C2441	C2442	C2443	C2444	G2371	U2309	G2239	C2164	U2102	C2027	A1939	G1852	C1780	A1537	C1537	C1538
C2440	C2441	C2442	C2443	C2444	C2445	G2372	U2310	G2240	C2165	G2103	C2028	A1940	G1853	C1781	A1538	C1538	C1539
C2441	C2442	C2443	C2444	C2445	C2446	G2373	U2311	G2241	C2166	G2104	C2029	A1941	G1854	C1782	A1539	C1539	C1540
C2442	C2443	C2444	C2445	C2446	C2447	G2374	U2312	G2242	C2167	G2105	C2030	A1942	G1855	C1783	A1540	C1540	C1541
C2443	C2444	C2445	C2446	C2447	C2448	G2375	U2313	G2243	C2168	G2106	C2031	A1943	G1856	C1784	A1541	C1541	C1542
C2444	C2445	C2446	C2447	C2448	C2449	G2376	U2314	G2244	C2169	G2107	C2032	A1944	G1857	C1785	A1542	C1542	C1543
C2445	C2446	C2447	C2448	C2449	C2450	G2377	U2315	G2245	C2170	G2108	C2033	A1945	G1858	C1786	A1543	C1543	C1544
C2446	C2447	C2448	C2449	C2450	C2451	G2378	U2316	G2246	C2171	G2109	C2034	A1946	G1859	C1787	A1544	C1544	C1545
C2447	C2448	C2449	C2450	C2451	C2452	G2379	U2317	G2247	C2172	U2110	C2035	A1947	G1860	C1788	A1545	C1545	C1546
C2448	C2449	C2450	C2451	C2452	C2453	G2380	U2318	G2248	C2173	G2111	C2036	A1948	G1861	C1789	A1546	C1546	C1547
C2449	C2450	C2451	C2452	C2453	C2454	G2381	U2319	G2249	C2174	G2112	C2037	A1949	G1862	C1790	A1547	C1547	C1548
C2450	C2451	C2452	C2453	C2454	C2455	G2382	U2320	G2250	C2175	G2113	C2038	A1950	G1863	C1791	A1548	C1548	C1549
C2451	C2452	C2453	C2454	C2455	C2456	G2383	U2321	G2251	C2176	G2114	C2039	A1951	G1864	C1792	A1549	C1549	C1550
C2452	C2453	C2454	C2455	C2456	C2457	G2384	U2322	G2252	C2177	G2115	C2040	A1952	G1865	C1793	A1550	C1550	C1551
C2453	C2454	C2455	C2456	C2457	C2458	G2385	U2323	G2253	C2178	G2116	C2041	A1953	G1866	C1794	A1551	C1551	C1552
C2454	C2455	C2456	C2457	C2458	C2459	G2386	U2324	G2254	C2179	G2117	C2042	A1954	G1867	C1795	A1552	C1552	C1553
C2455	C2456	C2457	C2458	C2459	C2460	G2387	U2325	G2255	C2180	G2118	C2043	A1955	G1868	C1796	A1553	C1553	C1554
C2456	C2457	C2458	C2459	C2460	C2461	G2388	U2326	G2256	C2181	G2119	C2044	A1956	G1869	C1797	A1554	C1554	C1555
C2457	C2458	C2459	C2460	C2461	C2462	G2389	U2327	G2257	C2182	G2120	C2045	A1957	G1870	C1798	A1555	C1555	C1556
C2458	C2459	C2460	C2461	C2462	C2463	G2390	U2328	G2258	C2183	G2121	C2046	A1958	G1871	C1799	A1556	C1556	C1557
C2459	C2460	C2461	C2462	C2463	C2464	G2391	U2329	G2259	C2184	G2122	C2047	A1959	G1872	C1800	A1557	C1557	C1558
C2460	C2461	C2462	C2463	C2464	C2465	G2392	U2330	G2260	C2185	G2123	C2048	A1960	G1873	C1801	A1558	C1558	C1559
C2461	C2462	C2463	C2464	C2465	C2466	G2393	U2331	G2261	C2186	G2124	C2049	A1961	G1874	C1802	A1559	C1559	C1560
C2462	C2463	C2464	C2465	C2466	C2467	G2394	U2332	G2262	C2187	G2125	C2050	A1962	G1875	C1803	A1560	C1560	C1561
C2463	C2464	C2465	C2466	C2467	C2468	G2395	U2333	G2263	C2188	G2126	C2051	A1963	G1876	C1804	A1561	C1561	C1562
C2464	C2465	C2466	C2467	C2468	C2469	G2396	U2334	G2264	C2189	G2127	C2052	A1964	G1877	C1805	A1562	C1562	C1563
C2465	C2466	C2467	C2468	C2469	C2470	G2397	U2335	G2265	C2190	G2128	C2053	A1965	G1878	C1806	A1563	C1563	C1564
C2466	C2467	C2468	C2469	C2470	C2471	G2398	U2336	G2266	C2191	G2129	C2054	A1966	G1879	C1807	A1564	C1564	C1565
C2467	C2468	C2469	C2470	C2471	C2472	G2399	U2337	G2267	C2192	G2130	C2055	A1967	G1880	C1808	A1565	C1565	C1566
C2468	C2469	C2470	C2471	C2472	C2473	G2400	U2338	G2268	C2193	G2131	C2056	A1968	G1881	C1809	A1566	C1566	C1567
C2469	C2470	C2471	C2472	C2473	C2474	G2401	U2339	G2269	C2194	G2132	C2057	A1969	G1882	C1810	A1567	C1567	C1568
C2470	C2471	C2472	C2473	C2474	C2475	G2402	U2340	G2270	C2195	G2133	C2058	A1970	G1883	C1811	A1568	C1568	C1569
C2471	C2472	C2473	C2474	C2475	C2476	G2403	U2341	G2271	C2196	G2134	C2059	A1971	G1884	C1812	A1569	C1569	C1570
C2472	C2473	C2474	C2475	C2476	C2477	G2404	U2342	G2272	C2197	G2135	C2060	A1972	G1885	C1813	A1570	C1570	C1571
C2473	C2474	C2475	C2476	C2477	C2478	G2405	U2343	G2273	C2198	G2136	C2061	A1973	G1886	C1814	A1571	C1571	C1572
C2474	C2475	C2476	C2477	C2478	C2479	G2406	U2344	G2274	C2199	G2137	C2062	A1974	G1887	C1815	A1572	C1572	C1573
C2475	C2476	C2477	C2478	C2479	C2480	G2407	U2345	G2275	C2200	G2138	C2063	A1975	G1888	C1816	A1573	C1573	C1574
C2476	C2477	C2478	C2479	C2480	C2481	G2408	U2346	G2276	C2201	G2139	C2064	A1976	G1889	C1817	A1574	C1574	C1575
C2477	C2478	C2479	C2480	C2481	C2482	G2409	U2347	G2277	C2202	G2140	C2065	A1977	G1890	C1818	A1575	C1575	C1576
C2478	C2479	C2480	C2481	C2482	C2483	G2410	U2348	G2278	C2203	G2141	C2066	A1978	G1891	C1819	A1576	C1576	C1577
C2479	C2480	C2481	C2482	C2483	C2484	G2											

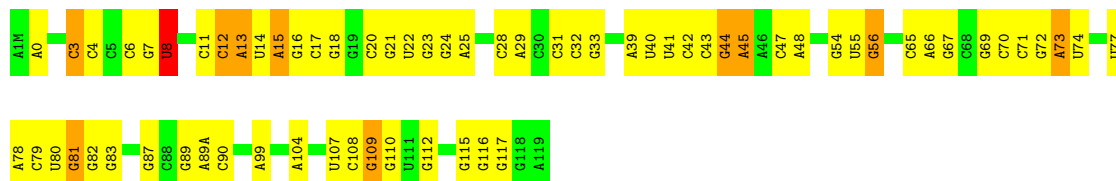


C1675	U1590	G1521	G1380	G1311	G1225	A1156	U	G1034	U963	U	G831	A761	G662
A1676	G1591	G1522	G1384	U1312	G1226	G1157	A	U1035	G966	A	G832	A764	G663
A1677	G1592	U1523	G1450	C1314	G1229	U1159	U	G1036	G897	G897	U833	G765	C664
G1678	G1593	U1524	C1366	C1315	G1229A	C1160	A1098	C1037	G898	C898	G836	G766	C665
U1679	G1594	G1451	C1367	U1316	C1230	C1161	G1099	C1038	U969	A899	G837	G769	U667
G1680	G1595	G1453	C1368	C1317	G1236	G1162	C1100	C1040	C970	A901	G838	G770	G668
A1596	U1596	U1527	G1368	C1318	U1237	G1163	C1101	C1041	C971	G902	U839	G771	G669
G1684	A1597	A1528	U1369	G1319	A1237	G1164	U1102	G1042	G972	C903	C840	G774	A670
C1685	C1598	G1532	U1390	A1321	U1237	G1165	C1103	C1043	G974	C904	A841	A775	C671
C1686	U1599	C1533	A1393	A1322	U1240	U1166	A1104	C1044	G975	U907	G842	G776	C672
C1687	C1600	G1534	U1394	G1323	A1241	U1167	C1105	A	G976	C908	G843	A777	G673
U1688	U1602	U1535	A1395	G1324	A1242	G1168	U1106	G1047	G977	A909	G844	G778	G674
A1689	A1603	A1536	U1396	G1325	G1243	G1169	G1107	A	G978	A909	G845	G779	A675
U1693	C1604	C1537	U1397	U1326	G1248	G1170	U1108	G1047	A860	A909	G846	G780	A676
G1696	C1605	G1538	C1398	C1327	G1249	G1171	C1109	C1049	A981	A910	U847	A781	A677
G1697	C1606	G1539	C1399	C1328	U1249	G1173	G1110	A1050	A983	C912	G848	A782	C679
A1698	C1607	G1540	G1400	U1329	G1250	A1174	G1111	G1051	G887	U913	G849	A783	G682
G1699	A1609	U1541	G1401	C1330	G1251	U1175	G1112	C1052	G888	C914	A784	G785	G686
A1700	A1610	A1542	C1403	A1331	A1252	G1176	U1113	C1053	A990	C915	G889	G786	G702
A1614	C1615	U1544	C1404	G1332	A1253	A1177	U1114	A1054	A991	G916	G890	G787	A706
G1703	G1616	A1545	U1405	U1335	G1256	C1178	G1115	G1055	C992	A917	G891	A788	G707
G1704	C1617	C1477	U1406	A1336	C1257	C1179	C1116	G1056	G993	A918	G892	A789	G708
G1705	C1618	A1478	C1407	G1337	C1258	C1180	C1117	A1057	G994	G921	G893	G790	G709
U1709	C1630A	G1479	G1408	G1338	G1259	A1181	C1118	U1058	C995	U922	U888	G791	G710
C1710	C1636	G1480	G1410	G1339	G1260	A1182	C1119	G1059	A996	C923	G889	G792	C720
A1637	A1637	A1553	C1411	U1340	C1261	G1184	C1121	U1060	G997	C924	U860	A793	C721
G1716	C1638	C1555	A1412	U1341	A1262	C1185	G1122	G1062	C998	C925	G893	G794	A722
G1717	A1639	C1556	G1413	A1342	G1266	G1186	G1125	G1063	U999	A926	A863	G795	C723
G1718	C1640	A1557	G1416	U1345	U1267	U1187	A1126	C	A1000	G928	G864	C796	U724
G1725	C1644	A1558	C1417	G1346	A1268	U1188	U1127	U	A1001	G929	C885	C797	A717
G1726	G1645	G1559	G1418	G1348	A1269	A1189	A1128	U	G1002	U930	A866	A800	A718
U1727	C1646	G1560	A1419	A1349	C1270	G1190	G1129	A	C1003	G931	C887	G801	C719
A1729	G1647	A1561	G1420	G1350	G1271	U1191	U1138	G	C1004	G932	U868	A804	C720
C1730	C1648	A1562	G1421	C1351	A1272	U1194	U1139	A1069	C1005	G933	G869	G805	A721
G1731	G1653	A1566	G1422	U1352	U1273	G1195	G1140	G1071	C1006	G934	A870	G806	C730
G1732	A1654	G1567	G1423	G1356	A1278	C1196	C1135	C1072	C1007	C935	U871	G807	G731
G1733	A1655	G1568	G1424	U1357	G1279	G1197	G1136	A1073	C1008	C936	A872	G808	C732
C1734	A1656	A1570	G1425	G1358	G1279	U1198	G1137	G1074	A1009	U937	G873	G729	G733
G1735	C1655	C1571	A1427	A1359	U1282	G1200	G1138	C1075	A1010	G938	G874	U807	C730
C1741	C1657	A1572	G1429	A1360	G1283	G1201	C1140	C1076	U1012	A941	C876	G808	C731
G1742	C1658	C1573	C1430	A1365	U1288	G1202	U1141	A	U1013	G942	U877	C812	C732
G1743	C1662	C1574	U1431	A1366	U1289	G1203	U1142	U	U1014	U943	A878	U813	G733
G1746	C1663	G1577	A1434	A1367	C1291	A1204	A1143	A	G1015	A945	G879	C814	G738
A1664	A1664	U1578	G1436	G1368	U1292	A1205	G1144	U	U1016	G946	C816	C817	G739
A1665	A1665	A1579	G1437	G1369	C1293	U1210	C1145	U	U1019	G947	G	G818	U740
G1666	G1666	U1580	C1437	C1370	C1297	U1211	C1146	A	A1020	G948	G	A819	U747
A1667	C1667	G1512	G1441	U1372	C1298	G1212	C1147	A1085	G1022	C951	C	A820	G748
A1668	C1668	C1513	G1442	A1373	G1299	A1213	A1148	U1086	U1023	G952	C	A821	A751
A1669	A1669	U1514	G1443	G1374	U1300	G1219	G1149	A1087	G1024	A957	A	A824	A752
U1670	C1670	C1515	G1444	C1375	A1301	A1220	G1150	A1088	U1025	U968	C	A825	C753
G1671	U1671	U1516	A1444A	C1376	A1302	C1221	G1152	G1089	A1026	A959	C	A826	C754
C1672	U1672	C1517	C1445	G1377	G1303	C1222	C1153	U1090	A1027	A960	A	U827	C755
A1762	G1674	U1520	G1446	A1378	G1303	C1223	C1154	C1091	A1029	C961	G	U828	C756
			G1447	A1379	G1310	G1224	A1155	G1093	G1093	G962	C	G830	C757

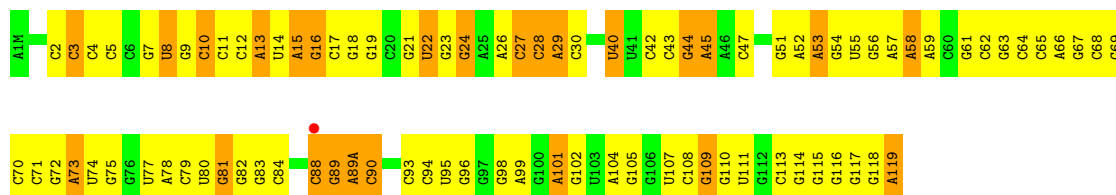
G2816	G2744	G2677	U2604	A2518	G2444	A2377	A2310	G2239	A2158	C2095	A2015	A1927	C1836	G1763
G2817	G2745	A2678	U2605	G2520	G2445	A2378	A2311	G2242	G2159	U2096	U2016	A1928	C1836	G1764
G2818	U2746	C2680	C2606	C2520	A2448	G2379	A2312	G2243	G2160	C2097	U2022	G1929	G1839	G1769
G2819	G2747	C2681	G2607	G2525	U2449	G2380	C2313	U2244	C2161	U2098	G2023	G1930	A1847	G1770
A2820	A2748	U2682	U2609	G2525	C2381	C2381	G2315		C2163	G2100	G2024	U1931		C1771
A2821	A2749	C2683	C2610	U2528	A2453	G2382	C2316	A2247	C2164	A1936	C2025	A1853	A1853	G1772
G2822	A2750	U2684	U2611	G2529	G2454	C2383	C2317	G2248	G2165	A1937	C2026	A1854	A1854	A1773
A2823	G2751	C2685	C2612	A2530	G2455	G2384	G2318	U2249	U2167	A1938	U2027	A1938	G1858	C1774
C2824	C2752	G2686	U2613	A2531	G2456	C2385	G2319	G2250	G2166	U1939	G2028	G1858	U1775	U1775
G2825	A2753	U2687	A2614	G2532	A2459	C2386	A2320	G2251	G2168	G2106	G2029	A1859	A1859	G1776
	U2615	U2688	U2615		U2460	U2387	G2321		A	C2107	A2030	C1941	G1860	
U2832	C2755	U2689	C2616	G2536	C2461	A2388	C2324	G2259	A2170	C2108	A2031	C1942		A1780
G2833	U2756	U2537	C2617	U2537	U2462	G2389	C2324	C2260	A2171	U2109	G2032	U1943	U1864	C1781
G2834	A2757	C2538		C2538	C2463	U2390	G2325	C2261	A2172	G2110	A2033	U1944	G1869	C1782
			C2622		C2464	C2391	G2326	U2262	C2173	C2111	U2034	C1870	A1783	A1783
U2836	A2758	A2542		G2542	C2465	A2392	A2327	C2263	C2174	U2035	G2035	U1946	A1871	A1784
G2837	G2759	G2543	A2629	G2543	C2466	A2393	A2328	C2264	C2175	C1872	C2036	C1947	A1872	A1785
G2838	G2761	U2698	G2630	G2544	C2467	C2394	G2329		A2176	G1948	G2037	U1948	A1878	A1786
G2839		C2699	A2632	G2547	C2468	C2395	G2331	A2267	C2177	G2115	C2038	G1949	C1879	A1787
C2840	A2764	U2702	G2633	G2548	U2472	G2400	U2332	A2269	C2179	A2117	C2039	G1950	A1789	A1788
A2765	G2765	C2703	C2634	C2548	G2473	U2401	A2333	G2270	U2180	A1952	A2042	U1951	G1883	A1789
G2766	G2766	C2704	G2635	C2551	U2473	C2402	G2334	G2271	G2181	A1953	C2043	A1952	C1886	C1790
C2767	C2767	A2705	U2636	U2552	C2474	G2403	A2335	U2272	G2182	G1954	C1987	G1954	C1887	A1791
	C2773	G2706	G2637	U2553	C2475	C2403	A2336	U2273	G2183	U1955	C2050	U1955	G1888	G1792
		G2707	G2638	U2554	A2476	C2404	G2337	A2274	C2184	A1889	A2051	U1956	A1890	C1793
A2776	A2776	G2708	G2641	G2557	C2477	G2405	A2346	C2282	C2185	G1957	G2052	C1957	A1890	G1795
G2777	G2777	U2709	G2642	C2558	A2478	U2406	G2340	G2276	G2186	G2125	G2053	C1958	G1891	U1796
A2778	A2778	C2710		C2558		G2407	G2341	G2277	G2187	A2126	A2054		C1892	C1797
U2779	U2779	U2711	G2643		G2482	U2408	C2342	A2278	C2188	G2127	C2055	U1963	C1893	U1798
G2780	G2780	A2712	G2644	U2562		G2409	C2343	C2279	C2189	C2128	C2056		C1894	G1799
A2781	A2781	A2712A	G2645	U2563	G2486	A2418	G2344	G2280	G2190	C2129	C2056	C1967	C1895	C1900
G2782	G2782	G2713	C2646	A2564	G2487	G2414	A2345	C2281	G2191	U2130	A2060	G1968	G1801	G1801
G2783	G2783	G2714	U2647	A2565	A2488	G2415	A2346	G2282	G2192	C2131	G2061	A1969	G1896	G1801
C2784	C2784	C2715	C2648	A2566	G2489	C2416	C2347	C2283	G2193	U2132	A2062	A1970	A1802	A1802
G2785	G2785			C2567	G2490	C2417			G2194	C2133	C2063	G1899	C1899	A1803
G2786	U2786	G2719	U2650	C2568	U2491	A2418	C2350	A2286		C2133	C2063	A1971	A1900	C1804
U2787	C2787	U2720	C2651	G2569	U2492	U2419	G2351	A2287	U2197	A2134	C2064	C1972	C1902	U1808
G2788	G2788	A2721	C2652	G2570	U2493	C2420	A2352	A2288	A2198	A2135	C2065	G1973	C1902	U1809
C2789	C2789	G2722	G2653	C2571	G2494	G2421	G2353	G2289		C2136	G2066	C1974		A1810
A2790	A2790	C2723	A2654	A2572	G2495	A2422	G2354	G2290	U2208	C2137	G2067	G1906	G1906	A1810
U2865	C2791	C2724	G2655	G2573	C2496	U2423	C2355	U2291	C2209	C2138	U2068	G1989	G1907	G1811
U2866	G2792	A2725	U2656	G2574	A2497	C2424	C2356	C2292	G2210	C2139	G2069	C1990	C1908	A1812
G2867	G2793	U2726	A2657	C2575	C2498	A2425	U2357	C2293	G2211	C2140	G2069	U1991	C1909	A1812
C2794	C2794	G2727		G2576			G2358	C2294	A2212	G2141	U2074	G1992	G1910	G1813
G2795	G2795	U2728	A2660	A2577	G2502	G2429	C2359	C2295	U2213	C2142	U2075	U1993		G1816
U2797	U2797	G2729		G2578	A2503	A2430	A2360	U2296	G2215		C2078	C1999	A1913	G1817
C2798	C2798	C2730	G2663	U2584	U2504	U2431	A2361	C2297		C2146	C2078	C1999	U1915	U1818
A2799	A2799	G2731	G2664	U2585	G2505	A2432		G2298	A2225	G2147	U2079	G2000	U1915	A1819
A2801	A2801	G2732	A2665	U2585	U2506	A2433	C2364	G2299		A2001	A1916	G2001	A1916	A1820
G2802	G2802	A2733	C2666	C2507	C2507	A2434	A2365	G2302	G2228	G2148	G2082	G2002	U1917	A1821
		A2734	C2667	A2590		A2435	A2366	G2302	G2229	U2150	G2083	C2006	A1919	G1822
G2805	G2805	C2735			U2511		C2367	G2303	G2230	G2151	U2086	C2006	C1920	G1826
G2807	G2807	A2736	A2671	A2598	C2512	U2438	C2368	G2304	G2231	G2152	U2087	G2009	C1920	G1827
U2808	U2808	G2737	C2672	G2599	G2513	A2439	A2369	A2305	U2232	G2153	G2088	G2010	G1921	G1828
A2809	A2809	A2738	G2673	A2600	U2514	C2440	G2370	G2306	C2231	U2089	G2089	U2011	U1923	A1829
A2810	A2810	U2739	C2674	C2601	C2515	C2441	G2371	G2307	G2234	G2154	G2090	G2012	U1924	G1834
G2811	G2811	A2740	A2675	A2602	G2516	C2442	G2372	G2308		U2091	C2013	A2013	C1925	U1834
A2812	A2812		C2676	G2517	G2517	C2443	G2373	G2309	C2238	U1926		A2014	U1926	G1835



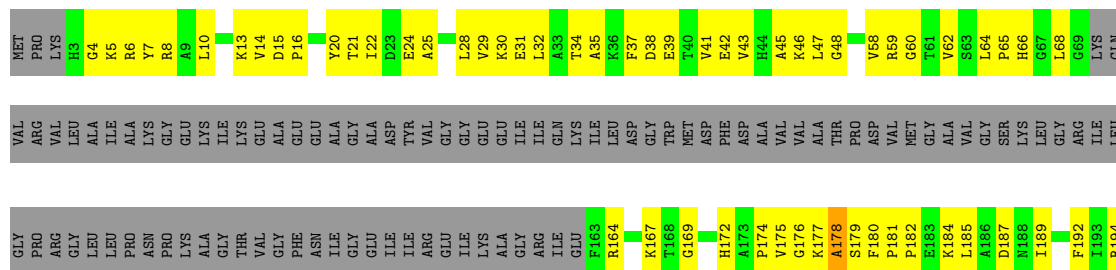
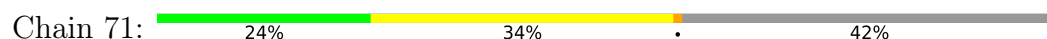
- Molecule 27: 5S rRNA



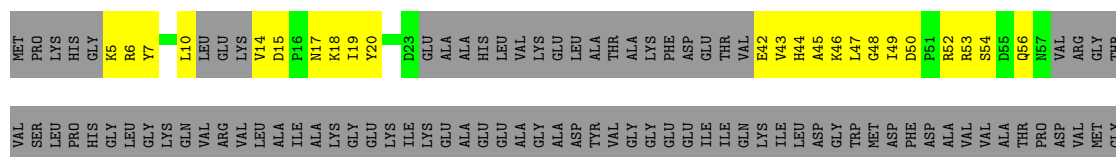
- Molecule 27: 5S rRNA



- Molecule 28: 50S ribosomal protein L1

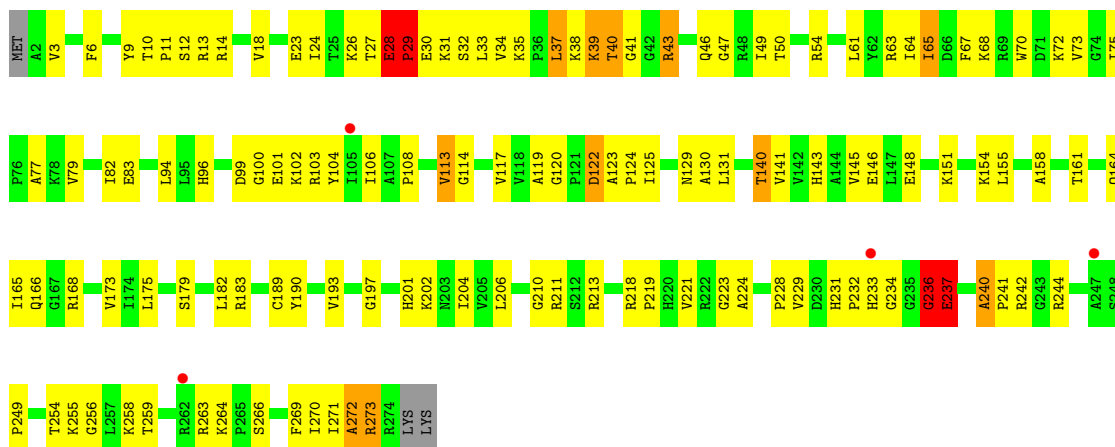


- Molecule 28: 50S ribosomal protein L1

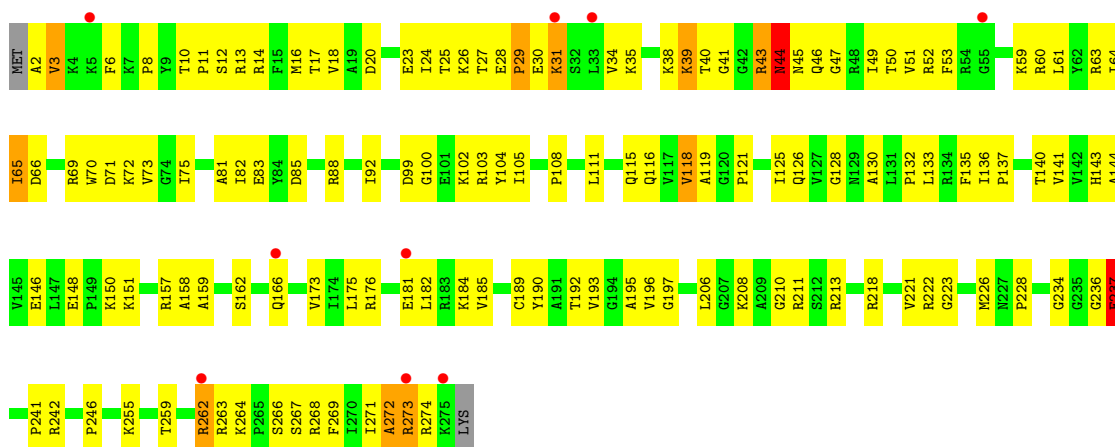




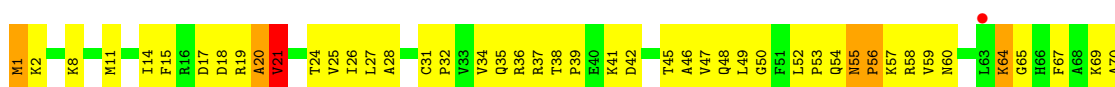
Chain 11: %

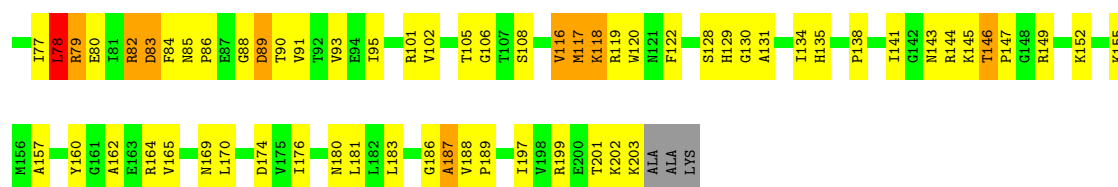


Chain 19: 3% 50% 45%

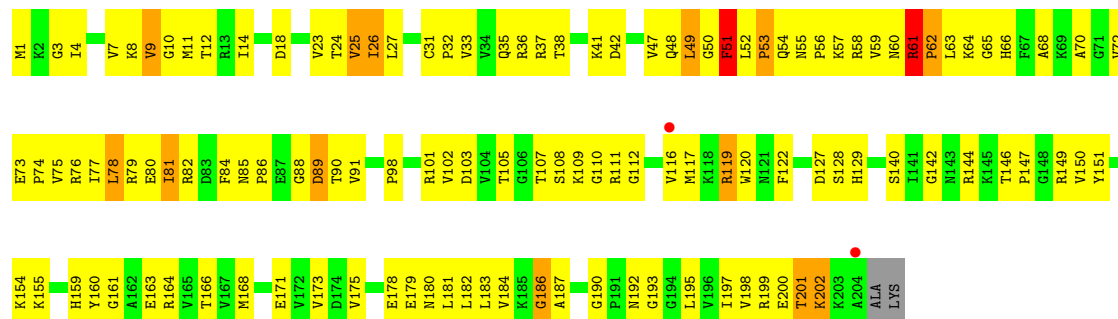
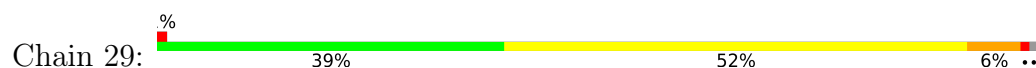


Chain 21: 46% 45% 7%

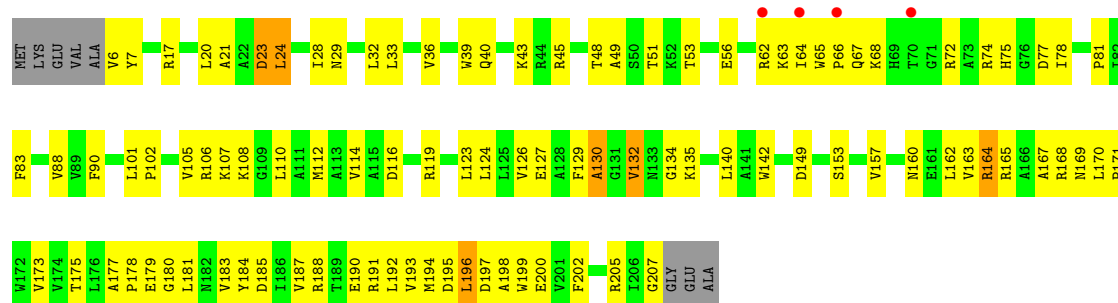




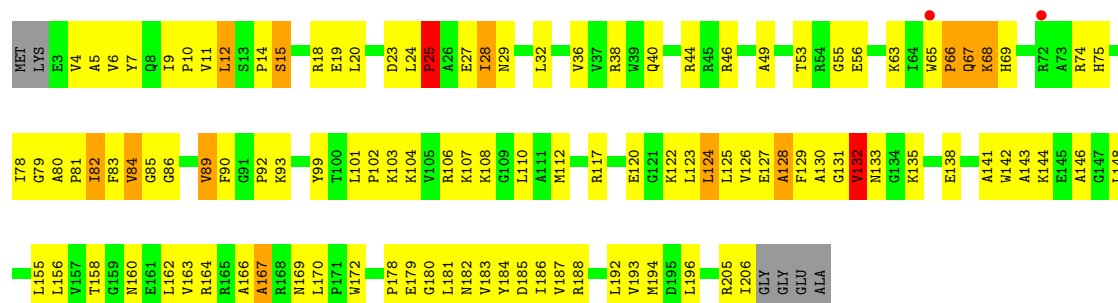
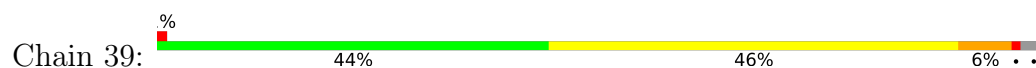
• Molecule 30: 50S ribosomal protein L3



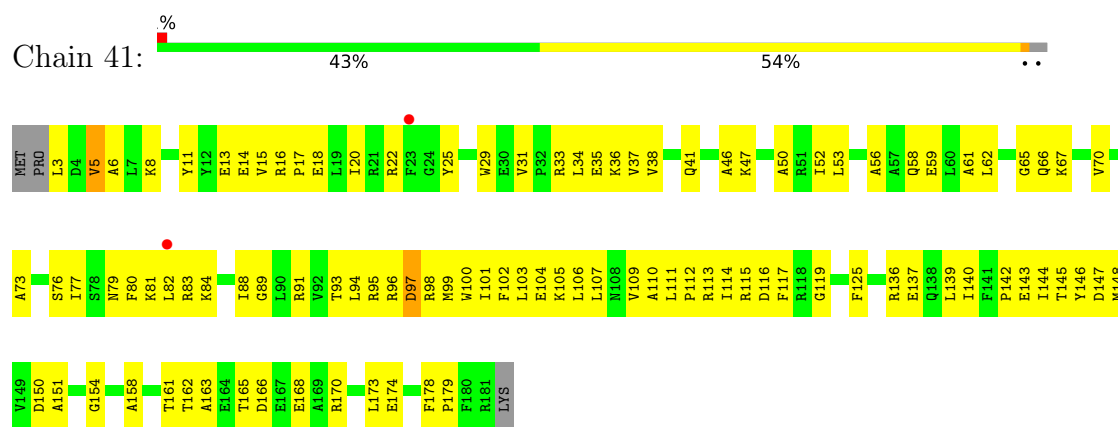
• Molecule 31: 50S ribosomal protein L4



• Molecule 31: 50S ribosomal protein L4



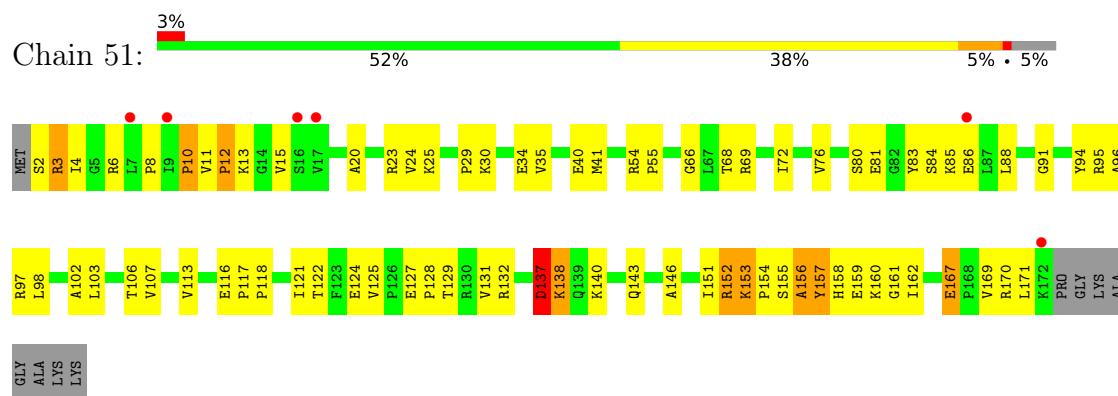
• Molecule 32: 50S ribosomal protein L5



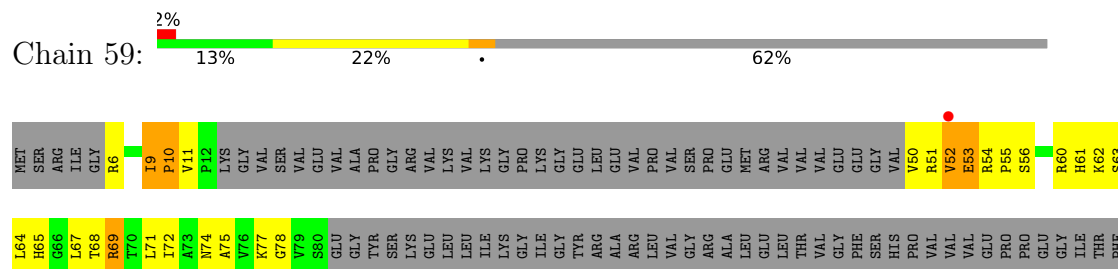
- Molecule 32: 50S ribosomal protein L5



- Molecule 33: 50S ribosomal protein L6

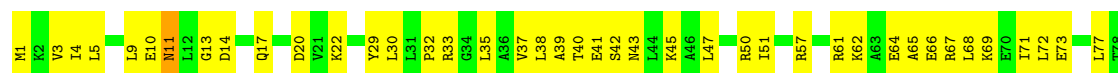


- Molecule 33: 50S ribosomal protein L6

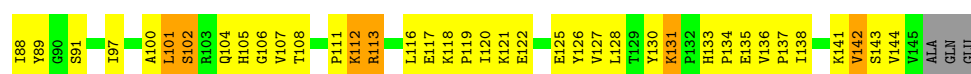
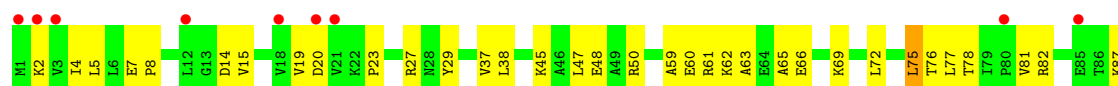




• Molecule 34: 50S ribosomal protein L9



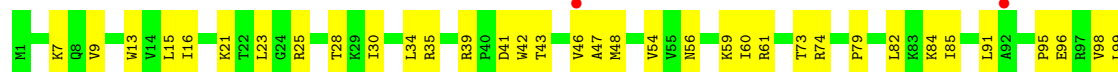
• Molecule 34: 50S ribosomal protein L9



• Molecule 35: 50S ribosomal protein L13

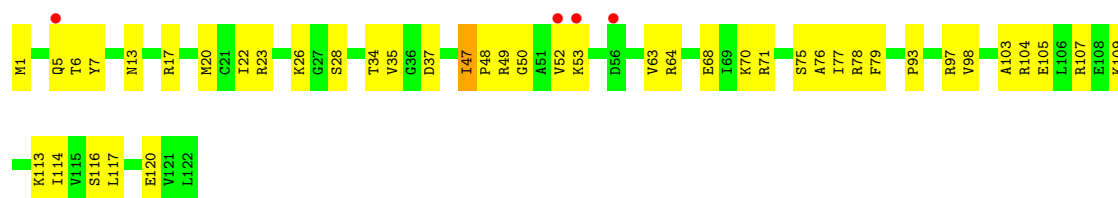


• Molecule 35: 50S ribosomal protein L13



• Molecule 36: 50S ribosomal protein L14





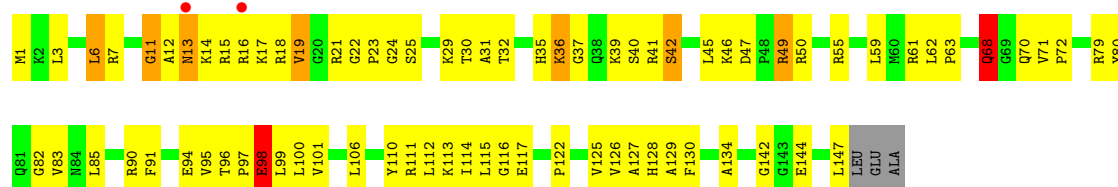
• Molecule 36: 50S ribosomal protein L14

Chain 25: 59% 40% .



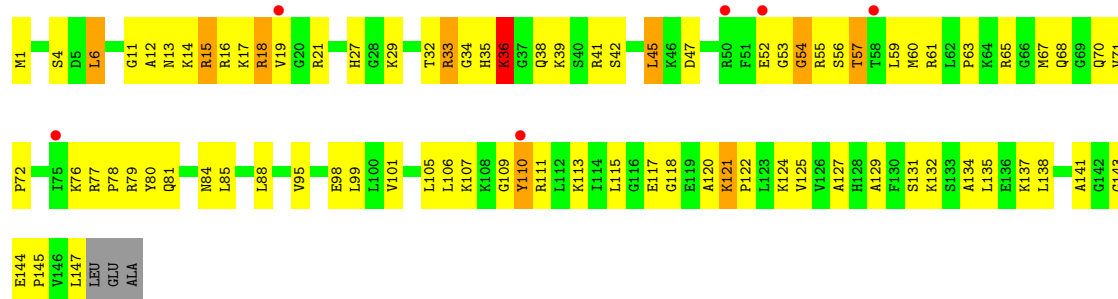
• Molecule 37: 50S ribosomal protein L15

Chain 78: 46% 46% 5% ..



• Molecule 37: 50S ribosomal protein L15

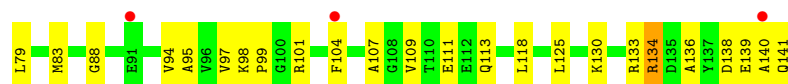
Chain 35: 43% 49% 6% ..



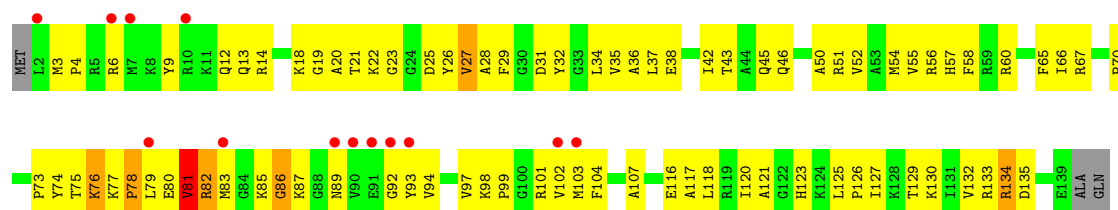
• Molecule 38: 50S ribosomal protein L16

Chain 88: 53% 42% 5%

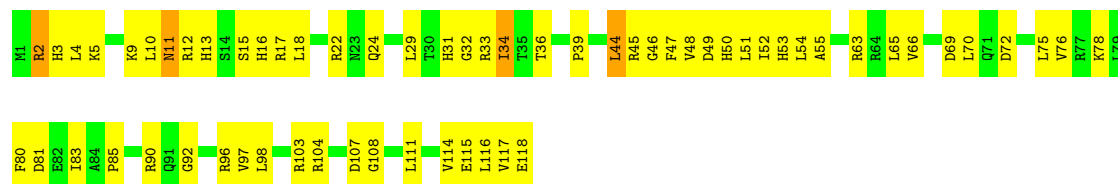




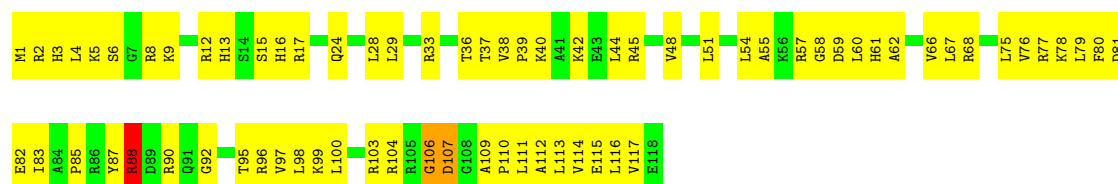
- Molecule 38: 50S ribosomal protein L16



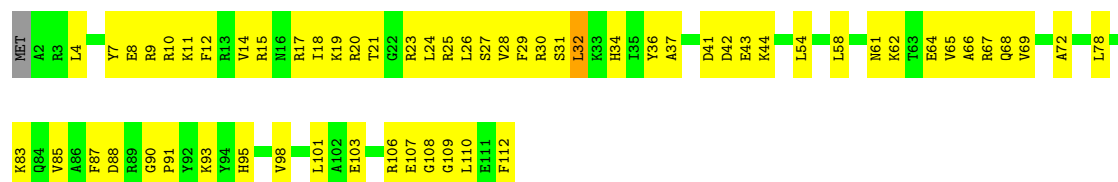
- Molecule 39: 50S ribosomal protein L17



- Molecule 39: 50S ribosomal protein L17

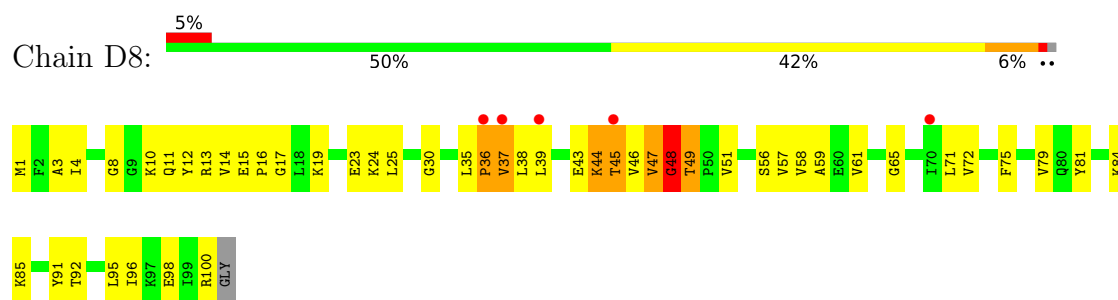


- Molecule 40: 50S ribosomal protein L18

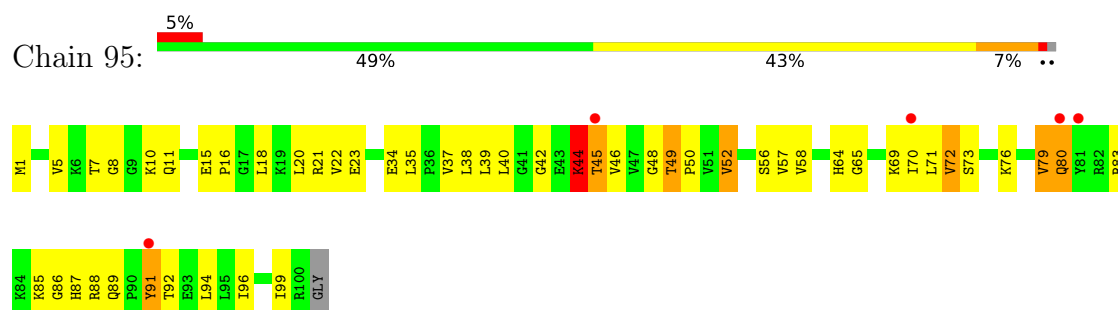


- Molecule 40: 50S ribosomal protein L18

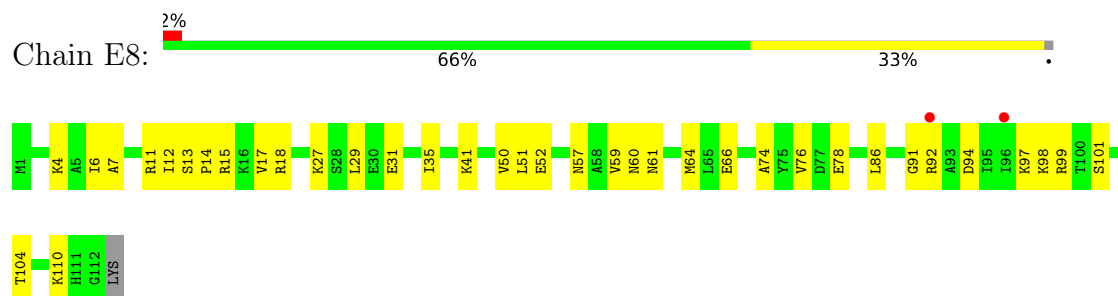




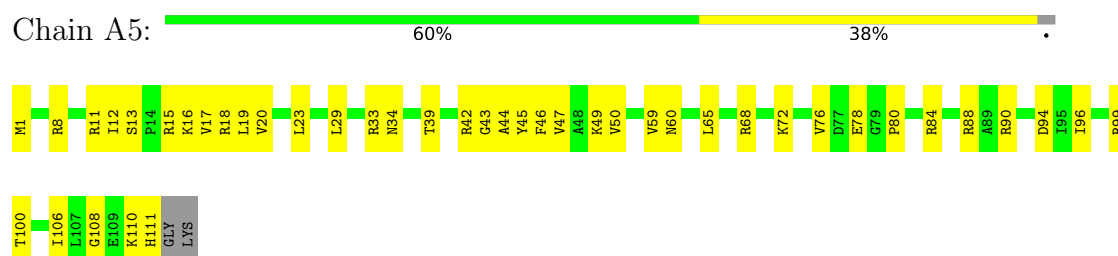
- Molecule 43: 50S ribosomal protein L21



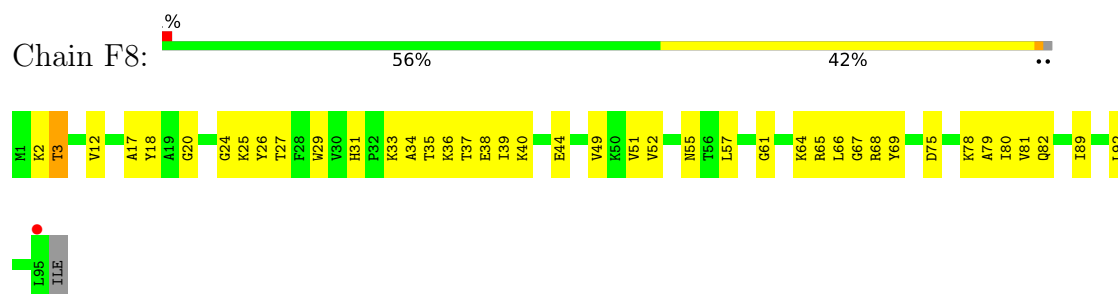
- Molecule 44: 50S ribosomal protein L22



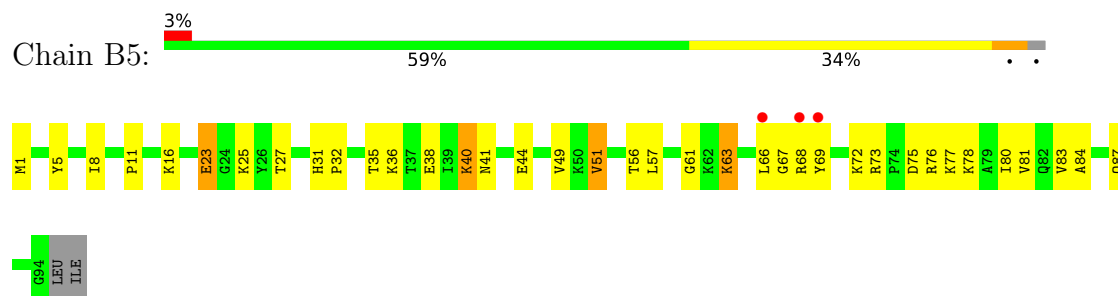
- Molecule 44: 50S ribosomal protein L22



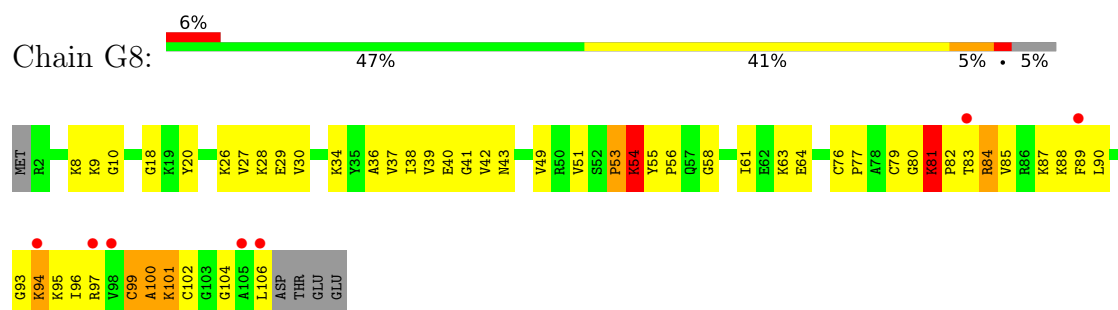
- Molecule 45: 50S ribosomal protein L23



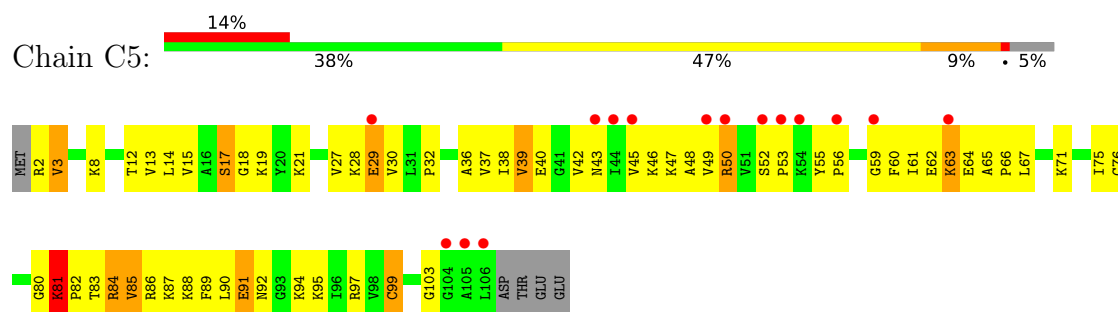
- Molecule 45: 50S ribosomal protein L23



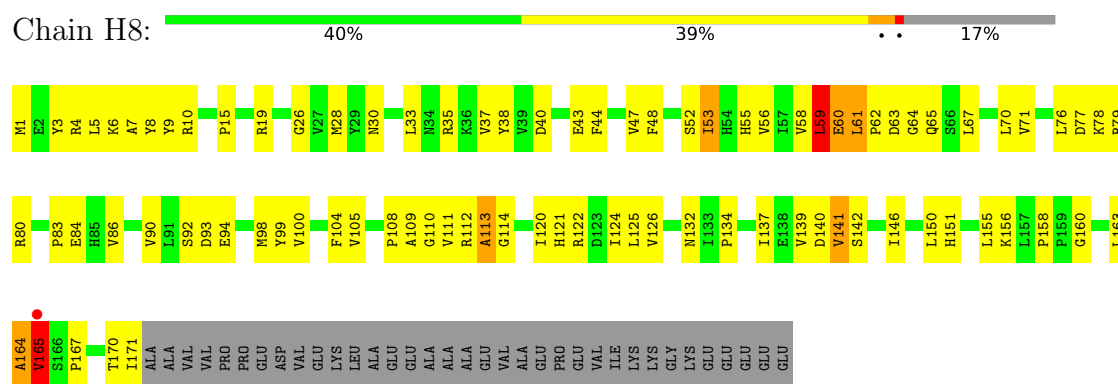
- Molecule 46: 50S ribosomal protein L24



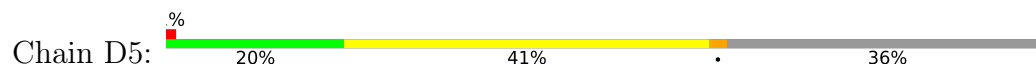
- Molecule 46: 50S ribosomal protein L24

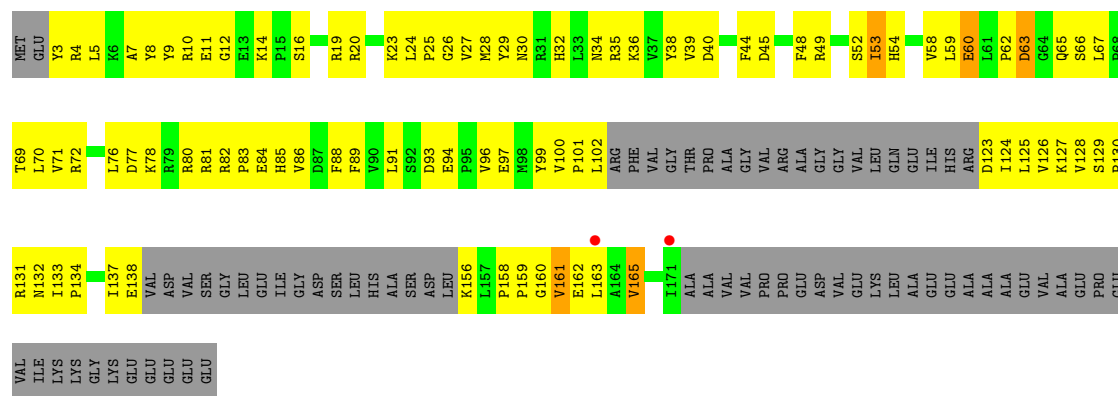


- Molecule 47: 50S ribosomal protein L25



- Molecule 47: 50S ribosomal protein L25





• Molecule 48: 50S ribosomal protein L27



• Molecule 48: 50S ribosomal protein L27

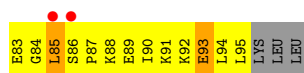


• Molecule 49: 50S ribosomal protein L28



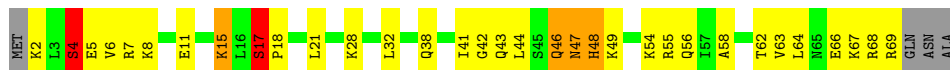
• Molecule 49: 50S ribosomal protein L28





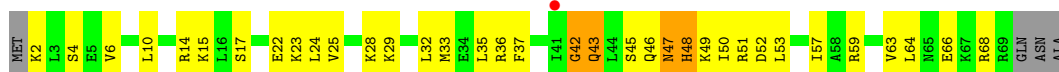
- Molecule 50: 50S ribosomal protein L29

Chain K8: 49% 38% 6% 6%



- Molecule 50: 50S ribosomal protein L29

Chain G5: 46% 43% 6% 6%



- Molecule 51: 50S ribosomal protein L30

Chain L8: 70% 27%



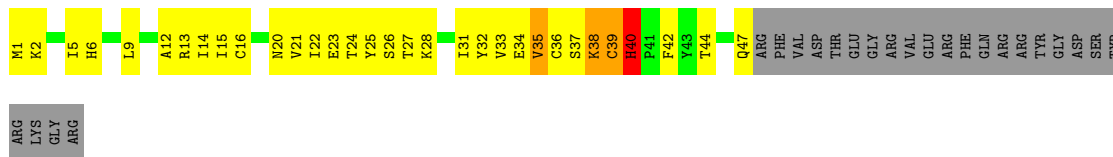
- Molecule 51: 50S ribosomal protein L30

Chain H5: 70% 27%



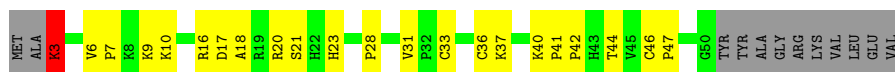
- Molecule 52: 50S ribosomal protein L31

Chain M8: 21% 39% 34%



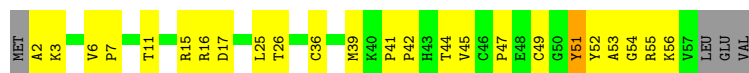
- Molecule 53: 50S ribosomal protein L32

Chain N8: 43% 35% 20%

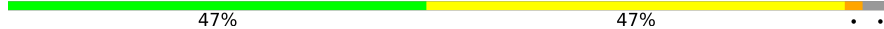


- Molecule 53: 50S ribosomal protein L32

Chain J5:  53% 38% 7%



- Molecule 54: 50S ribosomal protein L34

Chain P8:  47% 47% 6%

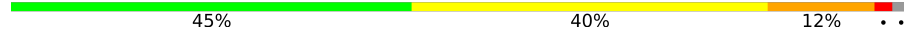


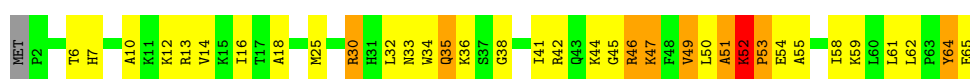
- Molecule 54: 50S ribosomal protein L34

Chain L5:  4% 55% 41%



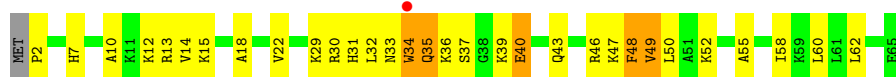
- Molecule 55: 50S ribosomal protein L35

Chain Q8:  45% 40% 12%



- Molecule 55: 50S ribosomal protein L35

Chain M5:  2% 51% 40% 8%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.40Å 446.00Å 617.40Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	151.24 – 3.10 151.24 – 3.10	Depositor EDS
% Data completeness (in resolution range)	100.0 (151.24-3.10) 93.3 (151.24-3.10)	Depositor EDS
R_{merge}	0.29	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.91 (at 3.07Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.196 , 0.249 0.199 , 0.253	Depositor DCC
R_{free} test set	2000 reflections (0.19%)	wwPDB-VP
Wilson B-factor (Å ²)	91.6	Xtriage
Anisotropy	0.272	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 43.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	294257	wwPDB-VP
Average B, all atoms (Å ²)	106.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.48% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MG, 5MU, OMC, U8U, SF4, ZN, 4SU, PAR, PSU, T6A, G7M

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	13	0.51	0/35994	0.76	9/56171 (0.0%)
1	1G	0.43	0/36258	0.66	4/56589 (0.0%)
2	12	0.50	0/1752	0.83	4/2360 (0.2%)
2	1E	0.43	0/1908	0.75	2/2573 (0.1%)
3	22	0.56	4/1564 (0.3%)	0.67	0/2109
3	2E	0.54	0/1629	0.71	0/2195
4	32	0.48	0/1732	0.75	0/2318
4	3E	0.55	0/1728	0.82	1/2313 (0.0%)
5	42	0.45	0/1150	0.75	0/1548
5	4E	0.53	0/1158	0.78	0/1559
6	52	0.50	0/855	0.73	0/1154
6	5E	0.60	0/850	0.73	0/1147
7	62	0.42	0/1122	0.74	3/1500 (0.2%)
7	6E	0.44	0/1259	0.63	0/1686
8	72	0.36	0/1127	0.67	0/1517
8	7E	0.69	4/1135 (0.4%)	0.77	0/1527
9	82	0.41	0/971	0.73	0/1304
9	8E	0.42	0/1019	0.79	0/1367
10	1A	0.50	0/658	0.71	0/885
10	1I	0.47	0/747	0.82	1/1006 (0.1%)
11	2A	0.42	0/850	0.68	0/1150
11	2I	0.50	0/838	0.78	2/1133 (0.2%)
12	3A	0.52	0/972	0.83	2/1301 (0.2%)
12	3I	0.71	0/972	1.07	3/1301 (0.2%)
13	4A	0.50	0/903	0.83	1/1211 (0.1%)
13	4I	0.54	0/952	0.77	0/1277
14	5A	0.43	0/495	0.90	2/657 (0.3%)
14	5I	0.54	0/500	0.86	2/664 (0.3%)
15	6A	0.45	0/740	0.67	0/987
15	6I	0.52	0/740	0.73	0/987
16	7A	0.47	0/721	0.76	0/970
16	7I	0.51	0/716	0.81	0/963

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	8A	0.42	0/836	0.67	0/1117
17	8I	0.47	0/847	0.77	0/1131
18	9A	0.48	0/549	0.71	0/732
18	9I	0.59	0/554	0.84	0/739
19	AA	0.46	0/490	0.79	0/662
19	AI	0.54	1/672 (0.1%)	0.83	0/904
20	BA	0.44	0/764	0.83	0/1007
20	BI	0.50	1/748 (0.1%)	0.76	1/986 (0.1%)
21	1B	0.37	0/192	0.68	0/252
21	1F	0.46	0/203	0.64	0/266
22	1K	0.49	0/1516	0.67	0/2350
22	1L	0.44	1/1613 (0.1%)	0.57	0/2504
23	2K	0.56	1/1721 (0.1%)	0.74	0/2682
23	2L	0.46	0/1721	0.66	0/2682
24	3K	0.47	0/1777	0.65	0/2767
24	3L	0.44	0/1777	0.60	0/2767
25	4K	0.57	0/494	0.68	0/767
25	4L	0.42	0/445	0.56	0/693
26	14	0.57	0/69023	0.81	22/107740 (0.0%)
26	1H	0.66	0/68351	0.90	33/106700 (0.0%)
27	16	0.54	0/2928	0.83	1/4568 (0.0%)
27	1J	0.47	0/2928	0.72	0/4568
28	71	0.41	0/1055	0.74	0/1425
28	79	0.45	0/459	0.75	0/608
29	11	0.89	3/2170 (0.1%)	1.32	16/2926 (0.5%)
29	19	0.84	5/2175 (0.2%)	1.17	11/2933 (0.4%)
30	21	0.66	0/1591	1.07	8/2146 (0.4%)
30	29	0.68	2/1596 (0.1%)	1.06	7/2153 (0.3%)
31	31	0.71	2/1620 (0.1%)	0.96	0/2194
31	39	0.82	1/1637 (0.1%)	1.06	5/2218 (0.2%)
32	41	0.51	0/1481	0.81	0/1994
32	49	0.41	0/1482	0.72	0/1994
33	51	0.60	0/1337	1.03	6/1809 (0.3%)
33	59	0.69	1/548 (0.2%)	1.21	7/738 (0.9%)
34	61	0.51	0/1151	0.84	1/1558 (0.1%)
34	69	0.50	0/1146	0.85	4/1551 (0.3%)
35	15	0.49	0/1131	0.82	0/1525
35	58	0.59	0/1131	0.89	2/1525 (0.1%)
36	25	0.61	1/942 (0.1%)	0.82	0/1269
36	68	0.62	0/942	0.85	0/1269
37	35	0.75	2/1139 (0.2%)	1.11	5/1514 (0.3%)
37	78	0.80	2/1139 (0.2%)	1.14	5/1514 (0.3%)
38	45	0.65	1/1120 (0.1%)	0.95	3/1498 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	88	0.80	1/1134 (0.1%)	1.14	6/1519 (0.4%)
39	55	0.70	2/981 (0.2%)	0.87	0/1312
39	98	0.56	0/981	0.88	0/1312
40	65	0.52	0/886	0.93	0/1180
40	A8	0.60	0/891	0.90	0/1187
41	75	0.61	0/1123	0.86	1/1500 (0.1%)
41	B8	0.69	0/1115	0.99	0/1490
42	85	0.53	0/977	0.79	0/1301
42	C8	0.64	0/968	0.90	0/1289
43	95	0.64	0/785	1.04	2/1052 (0.2%)
43	D8	0.58	0/785	0.93	2/1052 (0.2%)
44	A5	0.66	0/897	0.89	0/1204
44	E8	0.64	0/901	0.88	0/1209
45	B5	0.65	0/749	1.01	5/1007 (0.5%)
45	F8	0.72	0/757	1.17	4/1017 (0.4%)
46	C5	0.88	4/812 (0.5%)	1.14	5/1083 (0.5%)
46	G8	0.85	0/809	1.30	11/1080 (1.0%)
47	D5	0.52	0/1099	0.88	1/1490 (0.1%)
47	H8	0.49	0/1403	0.84	1/1901 (0.1%)
48	E5	0.59	0/616	0.97	0/821
48	I8	0.75	0/614	1.01	0/819
49	F5	0.61	0/744	0.99	4/989 (0.4%)
49	J8	0.68	0/744	0.95	0/989
50	G5	0.58	0/570	0.89	0/755
50	K8	0.72	0/570	1.08	3/755 (0.4%)
51	H5	0.45	0/464	0.74	0/623
51	L8	0.59	0/464	0.83	0/623
52	M8	0.55	0/375	1.09	1/507 (0.2%)
53	J5	0.59	0/448	0.84	0/606
53	N8	0.84	1/381 (0.3%)	0.97	0/516
54	L5	0.72	0/409	1.03	0/540
54	P8	0.90	0/409	1.08	1/540 (0.2%)
55	M5	0.74	0/524	1.18	3/691 (0.4%)
55	Q8	0.74	0/524	1.33	8/691 (1.2%)
All	All	0.57	40/317065 (0.0%)	0.83	231/475024 (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
2	12	0	6

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
2	1E	0	5
4	32	0	6
4	3E	0	2
5	42	0	1
7	62	0	1
8	72	0	1
9	82	0	1
10	1A	0	2
11	2A	0	1
12	3I	0	2
13	4A	0	5
13	4I	0	2
14	5A	0	1
14	5I	0	1
19	AA	0	2
19	AI	0	2
20	BA	0	3
20	BI	0	2
28	71	0	3
29	11	0	8
29	19	0	4
30	21	0	10
30	29	0	6
31	31	0	2
31	39	0	9
32	49	0	3
33	51	0	6
33	59	0	5
34	61	0	4
34	69	0	4
35	58	0	1
37	35	0	4
37	78	0	7
38	45	0	6
38	88	0	3
39	55	0	1
39	98	0	2
40	65	0	2
40	A8	0	1
41	75	0	1
41	B8	0	2
42	85	0	4

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
42	C8	0	4
43	95	0	3
43	D8	0	3
44	A5	0	1
45	B5	0	1
45	F8	0	3
46	C5	0	4
46	G8	0	7
47	D5	0	1
47	H8	0	4
49	F5	0	1
49	J8	0	1
50	G5	0	3
50	K8	0	3
52	M8	0	4
54	P8	0	1
55	M5	0	1
55	Q8	0	2
All	All	0	191

All (40) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	39	66	PRO	N-CD	-23.05	1.15	1.47
29	19	262	ARG	CZ-NH2	-11.90	1.18	1.33
37	35	121	LYS	C-N	11.64	1.61	1.33
8	7E	102	ARG	NE-CZ	-10.12	1.22	1.33
29	11	29	PRO	N-CD	-9.47	1.34	1.47
3	22	173	VAL	C-N	9.11	1.55	1.33
46	C5	84	ARG	NE-CZ	-8.91	1.23	1.33
29	19	262	ARG	CD-NE	-8.88	1.33	1.46
46	C5	84	ARG	CZ-NH2	-8.62	1.22	1.33
53	N8	3	LYS	CD-CE	-8.22	1.27	1.52
46	C5	84	ARG	CD-NE	-8.07	1.34	1.46
29	19	262	ARG	NE-CZ	-7.71	1.24	1.33
29	11	43	ARG	CG-CD	-7.53	1.29	1.52
8	7E	102	ARG	CZ-NH1	-7.42	1.22	1.32
39	55	88	ARG	CZ-NH2	-7.37	1.23	1.33
38	45	76	LYS	C-N	7.00	1.48	1.33
29	19	44	ASN	CA-C	6.92	1.62	1.52
3	22	88	ARG	CZ-NH2	-6.86	1.24	1.33
39	55	88	ARG	CZ-NH1	-6.76	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	88	138	ASP	CA-C	6.56	1.60	1.52
8	7E	102	ARG	CZ-NH2	-6.54	1.25	1.33
29	19	262	ARG	CZ-NH1	-6.52	1.23	1.32
30	29	119	ARG	CB-CG	-6.31	1.33	1.52
3	22	88	ARG	NE-CZ	-6.29	1.26	1.33
30	29	178	GLU	CD-OE1	-6.25	1.13	1.25
8	7E	102	ARG	CD-NE	-6.17	1.37	1.46
3	22	88	ARG	CD-NE	-5.99	1.37	1.46
37	78	68	GLN	CD-OE1	-5.93	1.12	1.23
29	11	28	GLU	CA-C	5.89	1.60	1.52
22	1L	37	T6A	O3'-P	5.64	1.61	1.56
23	2K	8	4SU	O3'-P	5.62	1.61	1.56
31	31	164	ARG	NE-CZ	-5.44	1.27	1.33
33	59	53	GLU	C-N	5.42	1.44	1.33
46	C5	84	ARG	CZ-NH1	-5.41	1.25	1.32
37	35	45	LEU	CG-CD1	-5.38	1.34	1.52
36	25	26	LYS	CD-CE	-5.37	1.36	1.52
19	AI	41	VAL	CA-CB	5.27	1.60	1.54
31	31	164	ARG	CZ-NH2	-5.15	1.26	1.33
20	BI	97	ALA	C-N	5.12	1.45	1.33
37	78	98	GLU	CD-OE1	-5.00	1.15	1.25

All (231) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	11	28	GLU	CA-C-N	18.89	143.45	119.84
29	11	28	GLU	C-N-CA	18.89	143.45	119.84
29	19	196	VAL	CA-C-N	-16.44	101.47	121.85
29	19	196	VAL	C-N-CA	-16.44	101.47	121.85
45	F8	3	THR	N-CA-C	-11.35	93.69	110.48
46	G8	81	LYS	CA-C-N	10.05	151.12	127.00
46	G8	81	LYS	C-N-CA	10.05	151.12	127.00
29	19	44	ASN	CA-C-N	9.70	139.15	121.70
29	19	44	ASN	C-N-CA	9.70	139.15	121.70
4	3E	85	LYS	N-CA-C	9.63	124.83	112.89
26	1H	2681	C	C2'-C3'-O3'	9.63	123.95	109.50
31	39	67	GLN	CA-C-N	-9.59	109.82	121.90
31	39	67	GLN	C-N-CA	-9.59	109.82	121.90
12	3I	47	LYS	CA-C-N	-9.41	108.08	119.84
12	3I	47	LYS	C-N-CA	-9.41	108.08	119.84
55	M5	48	PHE	CA-C-N	9.24	138.33	121.70
55	M5	48	PHE	C-N-CA	9.24	138.33	121.70

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	F8	3	THR	CA-C-N	9.23	138.32	121.70
45	F8	3	THR	C-N-CA	9.23	138.32	121.70
29	11	28	GLU	C-N-CD	-9.04	87.94	125.00
52	M8	40	HIS	N-CA-C	8.76	129.17	109.81
26	1H	1992	G	C2'-C3'-O3'	8.63	122.44	109.50
55	Q8	52	LYS	N-CA-C	-8.58	86.98	111.00
46	G8	99	CYS	N-CA-C	8.32	120.35	111.28
29	11	39	LYS	CA-C-N	8.32	137.43	121.54
29	11	39	LYS	C-N-CA	8.32	137.43	121.54
26	14	1992	G	C2'-C3'-O3'	8.20	121.80	109.50
46	G8	81	LYS	C-N-CD	-8.12	102.75	120.60
33	51	153	LYS	CA-C-N	7.88	145.91	127.00
33	51	153	LYS	C-N-CA	7.88	145.91	127.00
55	Q8	46	ARG	CA-C-N	7.79	135.72	121.70
55	Q8	46	ARG	C-N-CA	7.79	135.72	121.70
26	1H	271(B)	G	P-O3'-C3'	7.71	128.96	119.70
45	B5	23	GLU	CA-C-N	-7.52	106.67	121.41
45	B5	23	GLU	C-N-CA	-7.52	106.67	121.41
35	58	21	LYS	CA-C-N	-7.42	107.36	121.54
35	58	21	LYS	C-N-CA	-7.42	107.36	121.54
2	12	219	VAL	CA-C-N	7.24	134.73	121.70
2	12	219	VAL	C-N-CA	7.24	134.73	121.70
14	5I	12	ARG	CA-C-N	7.10	139.13	121.80
14	5I	12	ARG	C-N-CA	7.10	139.13	121.80
29	19	29	PRO	N-CA-C	-6.99	98.08	112.47
54	P8	45	ALA	N-CA-C	6.94	118.50	111.07
13	4A	95	GLY	N-CA-C	6.90	129.53	113.18
29	11	272	ALA	CA-C-N	6.89	134.70	121.54
29	11	272	ALA	C-N-CA	6.89	134.70	121.54
33	51	153	LYS	C-N-CD	-6.86	105.51	120.60
26	1H	1204	A	O4'-C1'-N9	6.83	118.45	108.20
45	B5	63	LYS	CG-CD-CE	6.82	126.98	111.30
29	11	39	LYS	N-CA-C	6.75	125.18	110.80
46	C5	81	LYS	CA-C-N	6.71	128.22	119.84
46	C5	81	LYS	C-N-CA	6.71	128.22	119.84
37	78	23	PRO	CA-C-N	-6.68	108.31	121.41
37	78	23	PRO	C-N-CA	-6.68	108.31	121.41
55	M5	48	PHE	CA-C-O	-6.67	113.30	121.11
30	21	54	GLN	CA-C-N	6.61	137.94	121.80
30	21	54	GLN	C-N-CA	6.61	137.94	121.80
43	95	79	VAL	CA-C-N	6.56	134.08	121.54
43	95	79	VAL	C-N-CA	6.56	134.08	121.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
14	5A	28	GLY	CA-C-N	6.55	134.05	121.54
14	5A	28	GLY	C-N-CA	6.55	134.05	121.54
41	75	8	LYS	CB-CG-CD	-6.50	96.35	111.30
37	78	42	SER	CA-C-N	-6.50	105.30	121.60
37	78	42	SER	C-N-CA	-6.50	105.30	121.60
26	14	1248	G	O5'-P-OP1	6.49	127.45	108.00
26	1H	1799	G	C2'-C3'-O3'	6.46	119.19	109.50
29	11	29	PRO	CA-N-CD	6.45	121.03	112.00
29	11	43	ARG	CA-CB-CG	-6.44	101.22	114.10
49	F5	29	GLY	CA-C-N	6.41	133.51	121.97
49	F5	29	GLY	C-N-CA	6.41	133.51	121.97
7	62	141	VAL	N-CA-C	-6.38	99.93	108.35
33	59	170	ARG	CA-C-N	6.36	135.69	121.76
33	59	170	ARG	C-N-CA	6.36	135.69	121.76
46	C5	103	GLY	N-CA-C	6.32	128.15	113.18
29	11	272	ALA	N-CA-C	6.25	124.12	110.80
38	45	82	ARG	N-CA-C	6.25	122.99	113.61
1	13	509	A	C2'-C3'-O3'	6.19	122.98	113.70
45	B5	40	LYS	CA-C-N	-6.14	112.95	122.16
45	B5	40	LYS	C-N-CA	-6.14	112.95	122.16
49	F5	54	ALA	CB-CA-C	-6.14	109.48	116.54
50	K8	17	SER	N-CA-C	6.10	123.29	109.81
26	1H	768	G	OP1-P-OP2	6.09	137.88	119.60
46	G8	77	PRO	CA-C-N	6.09	133.16	121.54
46	G8	77	PRO	C-N-CA	6.09	133.16	121.54
26	14	974	G	P-O3'-C3'	6.05	126.96	119.70
1	13	1498	U	C2'-C3'-O3'	6.04	118.56	109.50
26	14	2598	A	C2'-C3'-O3'	6.03	122.75	113.70
30	21	146	THR	N-CA-C	-6.03	101.04	110.14
37	35	33	ARG	CA-C-N	6.01	133.19	121.41
37	35	33	ARG	C-N-CA	6.01	133.19	121.41
26	14	1022	G	C2'-C3'-O3'	6.00	118.50	109.50
29	19	272	ALA	N-CA-C	5.99	123.56	110.80
26	14	2275	C	P-O3'-C3'	5.97	129.16	120.20
37	35	54	GLY	CA-C-N	5.96	131.16	121.74
37	35	54	GLY	C-N-CA	5.96	131.16	121.74
33	59	69	ARG	NH1-CZ-NH2	5.95	127.03	119.30
26	1H	1786	A	N9-C1'-C2'	5.94	122.92	114.00
12	3I	47	LYS	N-CA-C	5.93	120.43	109.10
30	29	53	PRO	CA-C-N	5.92	134.73	121.76
30	29	53	PRO	C-N-CA	5.92	134.73	121.76
1	1G	1498	U	C2'-C3'-O3'	5.92	118.38	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
33	59	10	PRO	N-CA-C	5.91	120.60	111.21
34	69	131	LYS	C-N-CD	-5.90	107.62	120.60
38	45	78	PRO	N-CA-C	5.90	124.63	112.47
34	69	131	LYS	CA-C-N	5.90	141.16	127.00
34	69	131	LYS	C-N-CA	5.90	141.16	127.00
33	59	69	ARG	CD-NE-CZ	5.88	132.62	124.40
46	G8	99	CYS	CA-C-N	5.85	132.23	121.70
46	G8	99	CYS	C-N-CA	5.85	132.23	121.70
26	1H	2346	A	O4'-C1'-N9	5.84	116.96	108.20
45	F8	3	THR	CA-C-O	-5.84	114.76	121.47
49	F5	36	GLY	N-CA-C	5.84	127.01	113.18
37	35	36	LYS	N-CA-C	5.83	123.22	110.80
1	1G	266	G	P-O3'-C3'	5.82	128.93	120.20
31	39	68	LYS	CA-C-N	-5.79	114.31	123.23
31	39	68	LYS	C-N-CA	-5.79	114.31	123.23
55	Q8	47	LYS	N-CA-C	-5.79	94.79	111.00
34	69	102	SER	N-CA-C	-5.79	98.47	110.80
30	29	78	LEU	CA-CB-CG	5.76	136.47	116.30
33	51	13	LYS	N-CA-C	5.76	123.08	110.80
55	Q8	51	ALA	CA-C-N	5.76	132.07	121.70
55	Q8	51	ALA	C-N-CA	5.76	132.07	121.70
30	29	61	ARG	CA-C-N	5.74	127.01	119.84
30	29	61	ARG	C-N-CA	5.74	127.01	119.84
38	88	20	ALA	CA-C-N	-5.72	112.26	122.45
38	88	20	ALA	C-N-CA	-5.72	112.26	122.45
1	1G	266	G	C2'-C3'-O3'	5.71	118.06	109.50
33	59	9	ILE	CB-CG1-CD1	5.67	125.69	113.80
26	14	784	A	P-O3'-C3'	5.64	128.66	120.20
29	19	44	ASN	O-C-N	-5.62	115.11	122.59
29	19	272	ALA	CA-C-N	5.62	132.27	121.54
29	19	272	ALA	C-N-CA	5.62	132.27	121.54
26	1H	2264	C	OP1-P-O3'	5.62	124.86	108.00
26	1H	845	G	P-O3'-C3'	5.60	128.60	120.20
26	14	1819	A	C4'-C3'-O3'	5.56	117.74	109.40
29	19	41	GLY	CA-C-O	-5.55	115.64	121.53
26	14	2066	C	OP1-P-O3'	5.53	124.60	108.00
26	14	1786	A	N9-C1'-C2'	5.52	122.28	114.00
31	39	132	VAL	N-CA-C	-5.52	97.86	109.34
30	21	117	MET	CA-C-N	5.51	132.07	121.54
30	21	117	MET	C-N-CA	5.51	132.07	121.54
26	14	1616	A	O4'-C1'-N9	5.51	116.46	108.20
1	13	687	A	C2'-C3'-O3'	5.50	117.75	109.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	11	37	LEU	CA-CB-CG	-5.48	97.11	116.30
26	1H	2712	U	P-O3'-C3'	5.48	126.28	119.70
26	1H	512	G	O4'-C1'-N9	5.46	116.39	108.20
34	61	143	SER	N-CA-C	5.46	122.42	110.80
1	13	703	G	C4'-C3'-O3'	5.45	117.57	109.40
26	1H	1108	U	O3'-P-O5'	5.42	112.13	104.00
26	14	49	A	P-O3'-C3'	5.41	128.31	120.20
26	1H	945	A	C4-N9-C1'	5.41	142.51	126.30
55	Q8	64	TYR	CA-CB-CG	-5.40	104.18	113.90
26	1H	140	A	OP1-P-O3'	-5.40	91.81	108.00
26	1H	2275	C	OP1-P-O3'	5.40	124.19	108.00
26	14	463	G	OP1-P-O3'	5.40	124.19	108.00
26	14	1602	U	O5'-P-OP2	5.39	124.18	108.00
30	29	51	PHE	CA-C-N	5.39	134.95	121.80
30	29	51	PHE	C-N-CA	5.39	134.95	121.80
1	13	115	G	C2'-C3'-O3'	5.38	117.56	109.50
26	1H	1786	A	OP1-P-O3'	5.37	124.11	108.00
26	1H	123	G	C5'-C4'-O4'	-5.34	101.78	109.80
7	62	141	VAL	CA-C-N	5.34	131.31	121.70
7	62	141	VAL	C-N-CA	5.34	131.31	121.70
27	16	8	U	O5'-P-OP1	5.33	124.00	108.00
46	G8	79	CYS	N-CA-C	5.33	122.15	110.80
38	45	81	VAL	N-CA-C	5.33	120.42	109.34
46	C5	85	VAL	CA-C-N	5.32	132.77	122.07
46	C5	85	VAL	C-N-CA	5.32	132.77	122.07
26	1H	138	G	N9-C1'-C2'	5.31	119.96	112.00
1	13	687	A	P-O3'-C3'	5.30	128.15	120.20
26	14	1141	U	P-O3'-C3'	5.30	128.15	120.20
26	1H	1430	C	OP1-P-O3'	5.29	123.86	108.00
50	K8	4	SER	CA-C-N	5.27	131.19	121.70
50	K8	4	SER	C-N-CA	5.27	131.19	121.70
30	21	186	GLY	CA-C-N	-5.26	113.16	122.26
30	21	186	GLY	C-N-CA	-5.26	113.16	122.26
26	1H	1829	A	O5'-P-OP1	-5.26	92.23	108.00
26	1H	1022	G	C2'-C3'-O3'	5.25	117.38	109.50
26	1H	657	U	OP1-P-O3'	-5.25	92.25	108.00
33	59	69	ARG	NE-CZ-NH2	-5.21	114.51	119.20
12	3A	18	VAL	CA-C-N	5.18	131.43	121.54
12	3A	18	VAL	C-N-CA	5.18	131.43	121.54
1	13	1336	C	C4'-C3'-O3'	5.15	117.12	109.40
43	D8	37	VAL	CA-C-N	5.15	131.38	121.54
43	D8	37	VAL	C-N-CA	5.15	131.38	121.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
26	14	122	G	OP1-P-O3'	-5.15	92.55	108.00
47	D5	138	GLU	N-CA-C	-5.14	105.76	113.89
26	1H	141(A)	C	OP1-P-O3'	-5.14	92.58	108.00
26	1H	659	C	OP1-P-O3'	-5.13	92.60	108.00
38	88	140	ALA	CA-C-N	5.13	130.94	121.70
38	88	140	ALA	C-N-CA	5.13	130.94	121.70
26	14	974	G	OP1-P-O3'	5.13	116.50	105.20
10	1I	75	ILE	CA-CB-CG1	5.13	119.12	110.40
47	H8	113	ALA	N-CA-C	5.13	118.41	111.17
55	Q8	30	ARG	CA-CB-CG	5.13	124.36	114.10
20	BI	83	ARG	NE-CZ-NH1	-5.13	116.37	121.50
11	2I	115	PRO	CA-C-N	-5.12	115.19	122.77
11	2I	115	PRO	C-N-CA	-5.12	115.19	122.77
46	G8	100	ALA	CA-C-N	5.12	130.92	121.70
46	G8	100	ALA	C-N-CA	5.12	130.92	121.70
26	14	2261	C	O5'-P-OP1	5.11	123.34	108.00
29	11	236	GLY	CA-C-O	5.11	124.45	119.04
2	12	17	PHE	CA-C-N	5.11	131.42	121.41
2	12	17	PHE	C-N-CA	5.11	131.42	121.41
2	1E	14	GLY	N-CA-C	5.10	125.27	113.18
33	51	156	ALA	CA-C-N	5.09	131.27	121.54
33	51	156	ALA	C-N-CA	5.09	131.27	121.54
29	19	65	ILE	CB-CG1-CD1	-5.09	103.11	113.80
26	1H	508	G	N9-C1'-C2'	5.09	121.63	114.00
26	1H	2000	G	O5'-P-OP1	5.08	123.25	108.00
26	14	1342	A	N9-C1'-C2'	5.08	121.62	114.00
26	1H	1297	C	OP2-P-O3'	-5.08	92.77	108.00
2	1E	72	GLY	N-CA-C	5.07	120.52	111.03
26	1H	865	C	O5'-P-OP2	5.07	123.21	108.00
29	11	140	THR	CA-C-N	-5.07	113.70	120.95
29	11	140	THR	C-N-CA	-5.07	113.70	120.95
38	88	57	HIS	CA-C-N	-5.07	115.02	123.33
38	88	57	HIS	C-N-CA	-5.07	115.02	123.33
1	13	1336	C	P-O3'-C3'	5.06	127.79	120.20
37	78	49	ARG	CG-CD-NE	5.06	123.13	112.00
26	14	2275	C	C4'-C3'-O3'	5.05	116.98	109.40
26	1H	2681	C	P-O3'-C3'	5.04	127.76	120.20
1	1G	197	A	P-O3'-C3'	5.04	127.76	120.20
26	1H	471	A	P-O3'-C3'	-5.03	112.65	120.20
26	14	1141	U	C2'-C3'-O3'	5.03	117.05	109.50
26	14	2873	A	N9-C1'-C2'	5.03	121.54	114.00
29	11	65	ILE	CB-CG1-CD1	-5.02	103.25	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	21	116	VAL	N-CA-C	-5.02	101.84	109.78
1	13	1065	U	P-O3'-C3'	5.02	127.73	120.20
26	1H	752	A	C4'-C3'-O3'	5.01	116.91	109.40
26	1H	752	A	C2'-C3'-O3'	5.01	117.01	109.50

There are no chirality outliers.

All (191) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
29	11	113	VAL	Peptide
29	11	114	GLY	Peptide
29	11	122	ASP	Peptide
29	11	197	GLY	Peptide
29	11	236	GLY	Peptide
29	11	237	GLU	Peptide
29	11	27	THR	Peptide
29	11	29	PRO	Peptide
2	12	12	GLU	Peptide
2	12	19	HIS	Peptide
2	12	219	VAL	Peptide
2	12	22	LYS	Peptide
2	12	221	LEU	Peptide
2	12	44	LEU	Peptide
29	19	197	GLY	Peptide
29	19	237	GLU	Peptide
29	19	28	GLU	Peptide
29	19	43	ARG	Peptide
10	1A	55	LYS	Peptide
10	1A	60	ARG	Peptide
2	1E	12	GLU	Peptide
2	1E	15	VAL	Peptide
2	1E	194	PRO	Peptide
2	1E	237	ALA	Peptide
2	1E	9	GLU	Peptide
30	21	1	MET	Peptide
30	21	187	ALA	Peptide
30	21	20	ALA	Peptide
30	21	21	VAL	Peptide
30	21	56	PRO	Peptide
30	21	57	LYS	Peptide
30	21	64	LYS	Peptide
30	21	67	PHE	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
30	21	78	LEU	Peptide
30	21	82	ARG	Peptide
30	29	186	GLY	Peptide
30	29	201	THR	Peptide
30	29	202	LYS	Peptide
30	29	61	ARG	Peptide
30	29	88	GLY	Peptide
30	29	89	ASP	Peptide
11	2A	49	GLY	Peptide
31	31	130	ALA	Peptide
31	31	196	LEU	Peptide
4	32	165	MET	Peptide
4	32	29	PRO	Peptide
4	32	81	GLU	Peptide
4	32	83	SER	Peptide
4	32	84	LYS	Peptide
4	32	85	LYS	Peptide
37	35	110	TYR	Peptide
37	35	18	ARG	Peptide
37	35	36	LYS	Peptide
37	35	70	GLN	Peptide
31	39	12	LEU	Peptide
31	39	127	GLU	Peptide
31	39	15	SER	Peptide
31	39	166	ALA	Peptide
31	39	20	LEU	Peptide
31	39	24	LEU	Peptide
31	39	25	PRO	Peptide
31	39	82	ILE	Peptide
31	39	89	VAL	Peptide
4	3E	151	LYS	Peptide
4	3E	82	ALA	Peptide
12	3I	47	LYS	Peptide
12	3I	87	GLY	Peptide
5	42	23	GLY	Peptide
38	45	134	ARG	Peptide
38	45	135	ASP	Peptide
38	45	58	PHE	Peptide
38	45	80	GLU	Peptide
38	45	86	GLY	Peptide
38	45	87	LYS	Peptide
32	49	117	PHE	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
32	49	13	GLU	Peptide
32	49	142	PRO	Peptide
13	4A	100	GLY	Peptide
13	4A	11	ARG	Peptide
13	4A	115	LYS	Peptide
13	4A	83	ASP	Peptide
13	4A	94	ARG	Peptide
13	4I	105	THR	Peptide
13	4I	107	ALA	Peptide
33	51	12	PRO	Peptide
33	51	137	ASP	Peptide
33	51	152	ARG	Peptide
33	51	156	ALA	Peptide
33	51	3	ARG	Peptide
33	51	91	GLY	Peptide
39	55	106	GLY	Peptide
35	58	6	PRO	Peptide
33	59	150	ALA	Peptide
33	59	155	SER	Peptide
33	59	159	GLU	Peptide
33	59	171	LEU	Peptide
33	59	52	VAL	Peptide
14	5A	27	CYS	Peptide
14	5I	3	ARG	Peptide
34	61	11	ASN	Peptide
34	61	114	LEU	Peptide
34	61	134	PRO	Peptide
34	61	82	ARG	Peptide
7	62	87	VAL	Peptide
40	65	55	ALA	Peptide
40	65	59	LYS	Peptide
34	69	101	LEU	Peptide
34	69	112	LYS	Peptide
34	69	142	VAL	Peptide
34	69	75	LEU	Peptide
28	71	178	ALA	Peptide
28	71	180	PHE	Peptide
28	71	218	MET	Peptide
8	72	74	PRO	Peptide
41	75	12	SER	Peptide
37	78	11	GLY	Peptide
37	78	115	LEU	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
37	78	13	ASN	Peptide
37	78	19	VAL	Peptide
37	78	24	GLY	Peptide
37	78	36	LYS	Peptide
37	78	70	GLN	Peptide
9	82	117	HIS	Peptide
42	85	72	HIS	Peptide
42	85	90	VAL	Peptide
42	85	98	LEU	Peptide
42	85	99	ALA	Peptide
38	88	21	THR	Peptide
38	88	24	GLY	Peptide
38	88	58	PHE	Peptide
43	95	44	LYS	Peptide
43	95	49	THR	Peptide
43	95	52	VAL	Peptide
39	98	2	ARG	Peptide
39	98	44	LEU	Peptide
44	A5	43	GLY	Peptide
40	A8	110	LEU	Peptide
19	AA	12	ASP	Peptide
19	AA	13	ASP	Peptide
19	AI	6	LYS	Peptide
19	AI	7	LYS	Peptide
45	B5	61	GLY	Peptide
41	B8	12	SER	Peptide
41	B8	58	ASN	Peptide
20	BA	101	GLY	Peptide
20	BA	11	SER	Peptide
20	BA	72	LEU	Peptide
20	BI	12	ALA	Peptide
20	BI	96	GLY	Peptide
46	C5	39	VAL	Peptide
46	C5	50	ARG	Peptide
46	C5	81	LYS	Peptide
46	C5	91	GLU	Peptide
42	C8	90	VAL	Peptide
42	C8	92	ARG	Peptide
42	C8	95	LEU	Peptide
42	C8	96	ALA	Peptide
47	D5	159	PRO	Peptide
43	D8	36	PRO	Peptide

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
43	D8	44	LYS	Peptide
43	D8	48	GLY	Peptide
49	F5	85	LEU	Peptide
45	F8	2	LYS	Peptide
45	F8	24	GLY	Peptide
45	F8	3	THR	Peptide
50	G5	17	SER	Peptide
50	G5	42	GLY	Peptide
50	G5	43	GLN	Peptide
46	G8	101	LYS	Peptide
46	G8	104	GLY	Peptide
46	G8	53	PRO	Peptide
46	G8	54	LYS	Peptide
46	G8	80	GLY	Peptide
46	G8	84	ARG	Peptide
46	G8	94	LYS	Peptide
47	H8	164	ALA	Peptide
47	H8	165	VAL	Peptide
47	H8	59	LEU	Peptide
47	H8	63	ASP	Peptide
49	J8	75	GLU	Peptide
50	K8	15	LYS	Peptide
50	K8	17	SER	Peptide
50	K8	46	GLN	Peptide
55	M5	40	GLU	Peptide
52	M8	35	VAL	Peptide
52	M8	38	LYS	Peptide
52	M8	39	CYS	Peptide
52	M8	40	HIS	Peptide
54	P8	45	ALA	Peptide
55	Q8	49	VAL	Peptide
55	Q8	52	LYS	Peptide

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	13	32157	0	16234	903	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1G	32391	0	16353	953	1
2	12	1721	0	1758	127	0
2	1E	1874	0	1926	130	0
3	22	1541	0	1606	94	0
3	2E	1605	0	1668	67	0
4	32	1702	0	1765	147	0
4	3E	1698	0	1760	127	0
5	42	1134	0	1200	81	0
5	4E	1142	0	1204	68	0
6	52	842	0	857	30	0
6	5E	837	0	852	47	0
7	62	1110	0	1163	64	0
7	6E	1242	0	1286	54	0
8	72	1107	0	1165	65	0
8	7E	1115	0	1177	76	0
9	82	953	0	983	92	0
9	8E	1000	0	1031	64	0
10	1A	646	0	662	42	0
10	1I	734	0	761	49	0
11	2A	835	0	847	36	0
11	2I	823	0	833	42	0
12	3A	956	0	1046	70	0
12	3I	956	0	1046	49	0
13	4A	893	0	946	73	0
13	4I	942	0	997	70	0
14	5A	486	0	525	51	0
14	5I	491	0	529	30	0
15	6A	729	0	768	30	0
15	6I	729	0	768	40	0
16	7A	705	0	725	46	0
16	7I	700	0	720	53	0
17	8A	823	0	891	39	0
17	8I	834	0	904	55	0
18	9A	544	0	605	23	0
18	9I	549	0	607	31	0
19	AA	481	0	468	46	0
19	AI	658	0	678	52	0
20	BA	762	0	861	45	0
20	BI	746	0	843	63	0
21	1B	188	0	195	14	0
21	1F	199	0	208	16	0
22	1K	1477	0	758	51	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	1L	1563	0	799	55	0
23	2K	1646	0	844	30	0
23	2L	1646	0	844	57	0
24	3K	1611	0	817	79	0
24	3L	1611	0	817	55	0
25	4K	439	0	219	11	0
25	4L	395	0	196	12	0
26	14	61630	0	31073	1539	1
26	1H	61028	0	30758	1549	0
27	16	2617	0	1328	67	0
27	1J	2617	0	1328	89	0
28	71	1033	0	1048	77	0
28	79	456	0	460	53	0
29	11	2120	0	2197	146	0
29	19	2125	0	2199	137	0
30	21	1558	0	1623	112	0
30	29	1563	0	1629	138	0
31	31	1585	0	1632	107	0
31	39	1602	0	1649	138	0
32	41	1457	0	1514	109	0
32	49	1458	0	1515	87	0
33	51	1312	0	1384	73	0
33	59	539	0	563	38	0
34	61	1136	0	1223	59	0
34	69	1131	0	1218	62	0
35	15	1104	0	1180	42	0
35	58	1104	0	1180	78	0
36	25	932	0	996	44	0
36	68	932	0	996	46	0
37	35	1122	0	1206	101	0
37	78	1122	0	1206	108	0
38	45	1099	0	1154	89	0
38	88	1113	0	1157	63	0
39	55	967	0	1033	67	0
39	98	967	0	1033	54	0
40	65	876	0	938	78	0
40	A8	881	0	943	59	0
41	75	1109	0	1170	64	0
41	B8	1101	0	1158	64	0
42	85	959	0	1019	69	0
42	C8	950	0	1011	67	0
43	95	774	0	849	66	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	D8	774	0	849	59	0
44	A5	886	0	948	32	0
44	E8	890	0	951	33	0
45	B5	735	0	785	39	0
45	F8	743	0	794	32	0
46	C5	799	0	888	72	0
46	G8	796	0	886	61	0
47	D5	1074	0	1087	77	0
47	H8	1373	0	1402	80	0
48	E5	608	0	622	33	0
48	I8	606	0	625	30	0
49	F5	737	0	813	51	0
49	J8	737	0	813	29	0
50	G5	568	0	614	43	0
50	K8	568	0	614	41	0
51	H5	459	0	512	11	0
51	L8	459	0	512	14	0
52	M8	366	0	370	49	0
53	J5	434	0	454	24	0
53	N8	369	0	388	24	0
54	L5	401	0	436	22	0
54	P8	401	0	436	21	0
55	M5	516	0	582	35	0
55	Q8	516	0	582	42	0
56	13	131	0	0	0	0
56	14	382	0	0	0	0
56	16	11	0	0	0	0
56	1G	81	0	0	0	0
56	1H	429	0	0	0	0
56	1J	5	0	0	0	0
56	1K	1	0	0	0	0
56	21	2	0	0	0	0
56	29	1	0	0	0	0
56	2K	3	0	0	0	0
56	2L	3	0	0	0	0
56	35	1	0	0	0	0
56	39	1	0	0	0	0
56	3E	1	0	0	0	0
56	3I	1	0	0	0	0
56	3K	1	0	0	0	0
56	41	1	0	0	0	0
56	45	3	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	4K	1	0	0	0	0
56	5E	1	0	0	0	0
56	5I	1	0	0	0	0
56	78	1	0	0	0	0
56	85	1	0	0	0	0
56	88	2	0	0	0	0
56	C5	1	0	0	0	0
56	E5	1	0	0	0	0
56	I8	3	0	0	0	0
56	L8	1	0	0	0	0
56	P8	1	0	0	0	0
56	Q8	1	0	0	0	0
57	13	42	0	45	3	0
57	1G	42	0	45	2	0
58	32	8	0	0	3	0
58	3E	8	0	0	3	0
59	5A	1	0	0	0	0
59	5I	1	0	0	0	0
59	C5	1	0	0	0	0
59	G8	1	0	0	0	0
60	11	10	0	0	3	0
60	13	144	0	0	15	0
60	14	367	0	0	32	0
60	16	22	0	0	1	0
60	19	8	0	0	0	0
60	1G	68	0	0	4	0
60	1H	540	0	0	71	0
60	1I	2	0	0	0	0
60	1J	12	0	0	3	0
60	29	2	0	0	1	0
60	31	7	0	0	0	0
60	32	2	0	0	0	0
60	35	2	0	0	0	0
60	39	3	0	0	1	0
60	3E	2	0	0	1	0
60	3K	1	0	0	0	0
60	4K	3	0	0	1	0
60	55	2	0	0	2	0
60	58	2	0	0	0	0
60	5I	2	0	0	0	0
60	6I	1	0	0	0	0
60	78	4	0	0	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	7I	1	0	0	0	0
60	98	1	0	0	1	0
60	BI	1	0	0	0	0
60	G8	1	0	0	0	0
60	H5	1	0	0	0	0
60	I8	2	0	0	0	0
60	L5	1	0	0	0	0
60	L8	3	0	0	1	0
60	P8	1	0	0	0	0
All	All	294257	0	196338	9976	1

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 21.

All (9976) 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)
26:1H:943:U:OP2	37:78:36:LYS:NZ	1.64	1.30
31:39:38:ARG:NH2	31:39:99:TYR:CE1	1.96	1.30
44:E8:92:ARG:NH1	44:E8:94:ASP:OD1	1.71	1.22
35:58:49:GLY:O	35:58:119:ARG:NH1	1.77	1.16
29:11:183:ARG:NH1	29:11:269:PHE:HB2	1.61	1.15
31:39:38:ARG:NH2	31:39:99:TYR:HE1	1.35	1.12
31:39:38:ARG:NE	31:39:99:TYR:OH	1.80	1.12
26:14:606:U:OP1	31:39:104:LYS:HD3	1.50	1.08
26:14:606:U:OP2	31:39:104:LYS:HE2	1.51	1.07
37:78:49:ARG:NH1	55:Q8:61:LEU:CD2	2.17	1.07
12:3A:41:ARG:HH22	12:3A:57:LYS:HE2	0.91	1.07
47:D5:53:ILE:HG22	47:D5:71:VAL:HG23	1.38	1.06
29:19:262:ARG:H	29:19:262:ARG:HD3	1.14	1.06
32:49:59:GLU:OE1	32:49:153:ARG:NH2	1.90	1.05
26:1H:1359:A:N1	26:1H:1372:U:N3	2.05	1.04
29:11:29:PRO:HB2	29:11:30:GLU:HA	1.35	1.04
10:1I:64:GLU:OE1	14:5I:59:ALA:HB2	1.57	1.03
32:49:34:LEU:C	32:49:35:GLU:OE2	2.01	1.03
27:16:44:G:OP1	52:M8:1:MET:SD	2.16	1.03
50:K8:4:SER:HB2	50:K8:7:ARG:HG2	1.38	1.01
12:3A:41:ARG:NH2	12:3A:57:LYS:HE2	1.74	1.01
12:3A:39:VAL:HG11	12:3A:41:ARG:NH2	1.74	1.00
43:95:85:LYS:HG3	43:95:87:HIS:H	1.26	1.00
50:G5:50:ILE:HD12	50:G5:51:ARG:H	1.25	1.00

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:16:44:G:OP1	52:M8:1:MET:CE	2.10	0.99
1:13:1346:A:H5''	9:8E:120:ARG:HH12	1.27	0.99
1:13:1502:A:H2	1:13:1505:G:H1	1.09	0.99
37:78:101:VAL:HG12	37:78:106:LEU:HD12	1.45	0.99
47:H8:1:MET:HE3	47:H8:55:HIS:HB3	1.44	0.98
26:14:1757:U:H3	26:14:1762:A:H2	1.11	0.98
26:1H:1771:C:HO2'	26:1H:1786:A:H8	0.98	0.98
29:11:146:GLU:HB2	29:11:189:CYS:HB3	1.42	0.98
26:1H:862:G:OP2	60:1H:3502:HOH:O	1.79	0.97
26:1H:2849:U:OP2	41:B8:95:ARG:NH1	1.97	0.96
13:4I:3:ARG:HB3	13:4I:9:ILE:HG12	1.47	0.96
2:12:91:PRO:HG2	2:12:155:LEU:HG	1.44	0.96
51:L8:10:LYS:NZ	60:L8:201:HOH:O	1.97	0.96
26:14:602:G:N2	26:14:655:A:N7	2.12	0.96
29:11:182:LEU:H	29:11:272:ALA:HB3	1.30	0.96
26:14:606:U:P	31:39:104:LYS:HD3	2.06	0.95
55:M5:48:PHE:HB2	55:M5:49:VAL:HG22	1.45	0.95
2:1E:60:ASP:HB3	2:1E:64:ARG:HH21	1.31	0.95
44:E8:92:ARG:HH12	44:E8:94:ASP:CG	1.72	0.95
1:13:1422:G:H5''	36:68:48:PRO:HB3	1.47	0.95
2:12:220:ASP:HB2	2:12:224:GLN:HG3	1.48	0.95
28:79:49:ILE:HG21	28:79:204:ALA:HB1	1.48	0.95
33:59:72:ILE:HA	33:59:75:ALA:HB3	1.48	0.95
33:59:171:LEU:HD13	33:59:172:LYS:H	1.29	0.95
26:1H:2714:G:OP2	60:1H:3501:HOH:O	1.84	0.95
13:4A:13:LYS:HD3	13:4A:14:ARG:H	1.31	0.95
47:D5:53:ILE:HG13	47:D5:54:HIS:HD2	1.32	0.95
5:42:24:ARG:NH2	25:4L:23:A:N7	2.14	0.94
26:1H:442:G:H1'	31:31:48:THR:HG21	1.48	0.94
26:1H:2032:G:H21	30:21:146:THR:HG23	1.30	0.94
26:1H:1899:G:N2	26:1H:1902:C:H41	1.65	0.94
26:1H:2502:G:OP2	60:1H:3503:HOH:O	1.84	0.94
26:14:2292:C:OP1	40:65:17:ARG:NH2	2.01	0.94
1:13:547:A:OP1	4:3E:73:ARG:NH2	2.01	0.94
19:AI:18:LYS:NZ	19:AI:22:LEU:HD13	1.81	0.94
26:1H:2308:G:H1	26:1H:2311:A:H2	1.11	0.94
30:21:116:VAL:HG11	30:21:138:PRO:HB3	1.50	0.94
7:62:113:GLU:HB2	7:62:119:ARG:HG2	1.48	0.94
3:2E:123:GLN:HE22	3:2E:136:GLN:HE21	1.16	0.93
26:1H:2469:A:H2	26:1H:2481:G:H21	1.05	0.93
26:14:517:C:OP1	53:J5:16:ARG:NH2	2.02	0.93

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1305:G:N2	1:13:1331:G:H2'	1.83	0.93
2:12:11:LEU:HG	2:12:217:ARG:HH22	1.30	0.93
37:35:52:GLU:N	37:35:52:GLU:OE2	2.02	0.93
26:1H:1728:G:H3'	26:1H:1729:A:H5'	1.50	0.93
26:1H:620:G:H4'	26:1H:621:A:H5''	1.49	0.92
38:45:25:ASP:HB3	38:45:102:VAL:H	1.34	0.92
22:1L:1:G:H1	22:1L:72:C:H42	1.17	0.92
19:AI:18:LYS:NZ	19:AI:18:LYS:O	2.02	0.92
9:82:53:VAL:HG13	9:82:95:LYS:HZ2	1.34	0.92
22:1K:76:A:H8	26:1H:2583:G:H21	1.17	0.92
29:11:183:ARG:HH12	29:11:269:PHE:HB2	1.30	0.92
26:14:1899:G:H22	26:14:1902:C:H41	1.14	0.91
45:B5:41:ASN:HA	45:B5:44:GLU:HB2	1.52	0.91
46:C5:50:ARG:HB3	46:C5:53:PRO:HD3	1.50	0.91
10:1I:64:GLU:OE1	14:5I:59:ALA:CB	2.17	0.91
1:1G:1348:U:H3	1:1G:1374:A:H2	1.18	0.91
39:98:33:ARG:HG3	39:98:115:GLU:HB3	1.51	0.91
1:13:542:G:OP1	4:3E:10:ARG:NH2	2.04	0.90
38:88:139:GLU:HG3	47:H8:122:ARG:HH12	1.36	0.90
23:2L:50:G:H1	23:2L:66:C:H42	1.16	0.90
28:71:38:ASP:HB3	28:71:177:LYS:HD3	1.53	0.90
31:39:107:LYS:HZ3	31:39:205:ARG:HD2	1.34	0.90
26:14:1022:G:O2'	26:14:1023:U:OP2	1.89	0.90
26:1H:780:G:H21	26:1H:783:A:H62	1.18	0.90
26:14:780:G:H21	26:14:783:A:H62	1.16	0.90
4:3E:86:LYS:HB3	4:3E:87:GLY:HA3	1.53	0.90
18:9I:38:GLU:HA	18:9I:41:LYS:HZ2	1.33	0.90
27:16:15:A:H5'	27:16:16:G:C8	2.07	0.90
40:65:64:GLU:O	40:65:68:GLN:NE2	2.05	0.90
37:78:49:ARG:NH1	55:Q8:61:LEU:HD22	1.87	0.89
1:1G:147:G:H1	1:1G:175:C:H42	1.20	0.89
26:14:662:G:H5'	37:35:15:ARG:HA	1.52	0.89
39:98:103:ARG:NH1	39:98:108:GLY:O	2.05	0.89
35:58:47:ALA:HB2	35:58:112:LEU:HD11	1.55	0.89
1:1G:998:G:N2	1:1G:1043:C:N3	2.19	0.89
26:14:676:A:H8	26:14:2069:G:H21	1.19	0.89
1:13:974:A:OP2	14:5I:41:ARG:NH1	2.05	0.89
26:14:974:G:O2'	26:14:975:G:N7	2.04	0.89
26:1H:1899:G:H22	26:1H:1902:C:H41	0.90	0.89
26:14:270(Q):C:OP1	34:69:45:LYS:NZ	2.05	0.89
26:14:275:G:N2	26:14:276:A:N7	2.21	0.88

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:G8:85:VAL:HG23	46:G8:96:ILE:HG13	1.54	0.88
9:82:112:LYS:HA	9:82:119:ALA:HB2	1.56	0.88
26:14:141:A:H8	26:14:1595:G:H21	1.18	0.88
27:16:80:U:H2'	27:16:81:G:H21	1.38	0.88
33:51:30:LYS:HE2	33:51:81:GLU:H	1.38	0.88
24:3L:27:G:H22	24:3L:44:U:H3	1.21	0.88
26:1H:2683:C:OP1	41:B8:53:ARG:NH2	2.05	0.88
32:49:151:ALA:H	32:49:153:ARG:HH12	1.21	0.88
1:13:664:G:H22	1:13:741:G:H1	1.20	0.88
4:32:18:LYS:NZ	58:32:301:SF4:S4	2.47	0.88
26:1H:676:A:H8	26:1H:2069:G:H21	1.22	0.88
47:H8:77:ASP:OD2	47:H8:80:ARG:NH1	2.05	0.88
26:1H:1899:G:H22	26:1H:1902:C:N4	1.71	0.88
2:12:18:GLY:O	2:12:19:HIS:ND1	2.06	0.88
17:8A:48:GLU:HB2	17:8A:50:LYS:HB2	1.53	0.88
2:12:19:HIS:CE1	2:12:204:ASN:HB3	2.08	0.88
39:55:3:HIS:NE2	60:55:201:HOH:O	2.06	0.88
26:1H:733:G:OP2	60:1H:3504:HOH:O	1.92	0.87
28:71:177:LYS:HE3	28:71:179:SER:H	1.39	0.87
26:14:631:A:OP2	55:M5:47:LYS:NZ	2.07	0.87
41:75:77:PRO:HG2	41:75:80:SER:HB3	1.57	0.87
42:85:92:ARG:HH22	43:95:10:LYS:HA	1.38	0.87
32:41:96:ARG:H	32:41:99:MET:HE2	1.40	0.87
43:D8:35:LEU:HB3	43:D8:57:VAL:HG13	1.56	0.87
1:1G:1047:G:H1	1:1G:1210:C:H42	1.21	0.87
4:32:82:ALA:HA	4:32:85:LYS:HB2	1.57	0.87
10:1I:61:GLU:OE2	14:5I:45:ARG:NH1	2.07	0.87
5:4E:11:ILE:HG13	5:4E:31:LEU:HB3	1.56	0.86
1:13:1286:A:H2'	1:13:1287:A:H4'	1.55	0.86
26:14:606:U:OP2	31:39:104:LYS:CE	2.23	0.86
26:14:2836:U:H2'	26:14:2837:G:C8	2.10	0.86
1:13:143:A:H5''	1:13:144:G:H5'	1.56	0.86
26:1H:2312:U:H5'	32:41:88:ILE:HD13	1.58	0.86
1:13:235:C:H5'	17:8I:70:ARG:HG2	1.57	0.86
26:1H:452:G:OP2	60:1H:3505:HOH:O	1.92	0.86
26:14:511:U:H3'	26:14:512:G:H5''	1.54	0.86
36:25:2:ILE:HD12	36:25:6:THR:HG21	1.57	0.86
1:13:619:U:H3	4:3E:134:ASP:HB2	1.40	0.86
2:1E:80:ILE:HG12	2:1E:212:GLN:HB2	1.57	0.86
26:14:945:A:N3	60:14:3409:HOH:O	2.09	0.86
19:AI:40:ILE:HG23	19:AI:41:VAL:HG13	1.56	0.86

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1367:C:H5'	10:1I:60:ARG:HH11	1.41	0.86
20:BI:69:GLY:O	20:BI:73:HIS:NE2	2.08	0.86
26:1H:1138:G:H21	35:58:106:MET:HE3	1.39	0.86
26:1H:1525:G:H2'	26:1H:1526:G:H8	1.41	0.86
47:H8:105:VAL:HG13	47:H8:140:ASP:HB3	1.57	0.86
37:78:49:ARG:HH11	55:Q8:61:LEU:HD21	1.38	0.85
12:3A:60:LEU:HD23	12:3A:64:TYR:HB3	1.58	0.85
4:32:3:ARG:HE	4:32:118:ARG:NE	1.74	0.85
26:14:1899:G:H22	26:14:1902:C:N4	1.74	0.85
9:8E:47:LEU:HD12	9:8E:50:LEU:HD12	1.58	0.85
8:72:29:SER:HB3	8:72:32:LYS:HG3	1.58	0.85
39:55:33:ARG:NH1	39:55:115:GLU:OE2	2.08	0.85
26:1H:1441:G:H2'	26:1H:1442:G:H8	1.39	0.85
41:B8:3:ARG:HB2	41:B8:6:LEU:HB2	1.57	0.85
1:1G:108:G:OP1	1:1G:326:G:N2	2.10	0.85
20:BI:73:HIS:HB3	20:BI:74:LYS:HG2	1.59	0.85
26:1H:2781:A:H5''	26:1H:2782:G:H5'	1.59	0.85
1:1G:926:G:N2	25:4L:15:A:OP2	2.08	0.85
1:1G:1441:G:H5''	1:1G:1442:G:H5'	1.56	0.85
26:1H:1385:G:HO2'	26:1H:1396:U:H6	1.22	0.85
31:39:6:VAL:HB	31:39:124:LEU:HA	1.59	0.84
8:7E:82:HIS:CE1	8:7E:138:TRP:CE2	2.65	0.84
26:1H:1534:G:N1	26:1H:1539:G:N3	2.24	0.84
31:39:25:PRO:HB2	31:39:27:GLU:H	1.41	0.84
40:65:12:PHE:O	40:65:16:ASN:ND2	2.10	0.84
37:78:39:LYS:HA	37:78:45:LEU:CD1	2.06	0.84
43:95:37:VAL:HG21	43:95:57:VAL:HG22	1.58	0.84
1:1G:961:U:O2	1:1G:1201:A:N6	2.11	0.84
26:14:843:G:H1	26:14:935:C:H42	1.24	0.84
52:M8:37:SER:OG	52:M8:42:PHE:CD1	2.28	0.84
10:1I:75:ILE:HD12	10:1I:76:ASN:H	1.41	0.84
4:32:23:GLY:N	4:32:26:CYS:SG	2.50	0.84
22:1K:25:C:N4	22:1K:26:A:N3	2.26	0.84
26:1H:1675:C:OP2	60:1H:3508:HOH:O	1.95	0.84
18:9A:53:ARG:HG3	18:9A:63:GLN:HE21	1.40	0.84
47:D5:91:LEU:HD13	47:D5:130:PRO:HG3	1.60	0.84
31:31:6:VAL:HG11	31:31:119:ARG:HA	1.58	0.84
26:14:879:G:O2'	26:14:898:C:N4	2.11	0.84
19:AI:41:VAL:HG11	19:AI:67:VAL:HA	1.60	0.83
26:1H:910:A:N7	38:88:13:GLN:HG3	1.92	0.83
31:39:53:THR:HG22	31:39:56:GLU:HG3	1.59	0.83

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:85:98:LEU:HB2	42:85:102:GLU:HB2	1.60	0.83
30:29:81:ILE:HG22	30:29:82:ARG:H	1.43	0.83
1:13:1028(B):C:O2	1:13:1032:A:N6	2.11	0.83
22:1K:7:U:O4	22:1K:66:A:N6	2.11	0.83
47:H8:9:TYR:HE2	47:H8:35:ARG:HH11	1.23	0.83
53:N8:41:PRO:O	53:N8:44:THR:OG1	1.96	0.83
26:14:71:A:OP2	26:14:71:A:H3'	1.77	0.83
4:3E:165:MET:SD	4:3E:168:ARG:NH1	2.51	0.83
26:1H:761:A:OP1	60:1H:3509:HOH:O	1.96	0.83
10:1A:17:ASP:OD1	10:1A:70:ARG:NH1	2.11	0.83
29:19:182:LEU:H	29:19:272:ALA:HB3	1.42	0.83
32:49:35:GLU:OE2	32:49:35:GLU:N	2.11	0.83
10:1I:24:VAL:O	10:1I:28:ARG:N	2.11	0.83
26:14:2012:G:H4'	44:A5:96:ILE:HD11	1.59	0.83
1:13:837:G:OP2	1:13:842:C:N4	2.10	0.83
26:1H:1533:C:H3'	26:1H:1534:G:H5''	1.59	0.82
1:1G:838:G:N2	1:1G:848:C:N3	2.26	0.82
2:12:130:ARG:O	2:12:135:GLN:NE2	2.12	0.82
1:13:812:C:N3	60:13:1805:HOH:O	2.12	0.82
22:1K:52:G:N2	22:1K:62:C:N3	2.26	0.82
26:1H:1405:U:H2'	26:1H:1406:U:C6	2.14	0.82
4:32:157:LEU:O	4:32:161:ASN:ND2	2.12	0.82
26:14:2380:C:P	40:65:20:ARG:HH12	2.01	0.82
24:3K:8:U:N3	24:3K:15:G:O6	2.13	0.82
26:14:2379:G:O3'	40:65:20:ARG:NH1	2.12	0.82
47:D5:76:LEU:HA	47:D5:83:PRO:HA	1.61	0.82
26:1H:993:G:OP1	42:C8:50:ARG:NH2	2.12	0.82
1:1G:54:C:N4	1:1G:353:A:OP2	2.12	0.82
14:5A:29:ARG:HG3	14:5A:31:ARG:H	1.43	0.82
26:14:34:C:HO2'	26:14:35:G:H8	1.27	0.82
28:79:43:VAL:HG22	28:79:224:ILE:HD13	1.62	0.82
50:G5:47:ASN:O	50:G5:49:LYS:N	2.12	0.82
8:7E:20:TYR:HE2	8:7E:75:ARG:HD2	1.43	0.82
26:1H:780:G:H21	26:1H:783:A:N6	1.77	0.82
26:1H:71:A:H2	45:F8:31:HIS:HE2	1.27	0.81
1:1G:1070:U:OP1	5:42:25:ARG:NH1	2.12	0.81
1:1G:1256:A:H62	1:1G:1277:C:H3'	1.45	0.81
26:14:1899:G:N2	26:14:1902:C:H41	1.78	0.81
26:14:2176:A:O2'	28:79:44:HIS:ND1	2.11	0.81
26:1H:900:A:H3'	26:1H:901:A:H8	1.45	0.81
26:1H:2135:A:N6	26:1H:2156:G:O2'	2.13	0.81

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2305:A:O2'	32:41:136:ARG:NH1	2.13	0.81
31:31:6:VAL:HG21	31:31:119:ARG:HB2	1.60	0.81
13:4A:81:LEU:HD11	13:4A:86:CYS:SG	2.21	0.81
26:14:2140:C:O2	26:14:2151:G:N2	2.13	0.81
26:14:2649:U:H3	26:14:2671:A:H61	1.25	0.81
1:1G:235:C:H5'	17:8A:70:ARG:HG2	1.60	0.81
1:1G:474:G:H2'	1:1G:475:G:C8	2.16	0.81
24:3L:18:G:H1	24:3L:55:U:HO2'	1.25	0.81
26:14:2392:A:H2	26:14:2424:C:H42	1.28	0.81
27:1J:80:U:H2'	27:1J:81:G:H21	1.44	0.81
1:13:1455:G:H5''	20:BI:31:SER:HB2	1.62	0.81
37:78:39:LYS:HA	37:78:45:LEU:HD13	1.61	0.81
31:39:4:VAL:HA	31:39:19:GLU:HB3	1.61	0.81
1:13:1292:U:OP1	7:6E:41:ARG:NH2	2.13	0.81
26:1H:1639:U:OP1	60:1H:3510:HOH:O	1.97	0.81
4:3E:107:ARG:HH22	4:3E:194:LEU:HD22	1.44	0.81
1:1G:1256:A:N6	1:1G:1278:U:OP2	2.13	0.81
46:C5:28:LYS:O	46:C5:38:ILE:HG13	1.80	0.81
8:7E:109:ILE:HG23	8:7E:137:VAL:HG23	1.60	0.81
26:1H:2588:G:OP1	60:1H:3511:HOH:O	1.99	0.81
26:14:1022:G:H22	26:14:1142(A):A:H2	1.27	0.81
26:14:1653:G:H3'	39:55:2:ARG:HG2	1.63	0.81
37:35:98:GLU:HA	37:35:101:VAL:HG12	1.63	0.81
2:1E:211:ILE:HA	2:1E:214:ILE:HD12	1.61	0.81
26:14:1037:G:N2	26:14:1118:C:O2	2.14	0.81
26:14:1048:A:N6	26:14:1112:G:O2'	2.13	0.81
26:1H:1021:A:H62	26:1H:1141:U:H3	1.28	0.81
26:14:938:G:OP2	55:M5:52:LYS:NZ	2.10	0.81
30:29:35:GLN:NE2	30:29:37:ARG:NH2	2.28	0.81
26:14:751:A:H5'	44:A5:90:ARG:HA	1.62	0.80
55:M5:22:VAL:HB	55:M5:55:ALA:HB1	1.62	0.80
1:1G:1248:A:N3	9:82:70:LYS:NZ	2.30	0.80
31:39:123:LEU:O	31:39:125:LEU:N	2.14	0.80
37:78:49:ARG:NH1	55:Q8:61:LEU:HD21	1.93	0.80
22:1L:2:G:N2	22:1L:71:C:N3	2.29	0.80
19:AI:18:LYS:HZ3	19:AI:22:LEU:HD13	1.43	0.80
27:16:44:G:P	52:M8:1:MET:SD	2.80	0.80
38:88:104:PHE:HE2	38:88:125:LEU:HD11	1.46	0.80
5:42:137:GLU:O	5:42:141:GLN:HG2	1.82	0.80
7:62:116:ALA:HA	7:62:119:ARG:HE	1.45	0.80
2:1E:33:TYR:HB2	2:1E:43:ASP:HB2	1.64	0.80

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3A:41:ARG:HH22	12:3A:57:LYS:CE	1.85	0.80
23:2L:8:4SU:O2	23:2L:14:A:N6	2.13	0.80
26:14:1532:C:H42	26:14:1539:G:H1	1.28	0.80
1:1G:1028(B):C:O2	1:1G:1030:C:N4	2.14	0.80
26:14:1315:C:OP2	60:14:3402:HOH:O	2.00	0.80
26:1H:1578:U:OP2	60:1H:3512:HOH:O	1.99	0.80
44:A5:20:VAL:HA	44:A5:23:LEU:HD23	1.62	0.80
26:14:249:C:OP1	60:14:3401:HOH:O	1.98	0.80
26:14:1041:C:O2	26:14:1114:G:N2	2.14	0.80
45:F8:36:LYS:HA	45:F8:39:ILE:HD12	1.64	0.80
10:1A:80:LYS:O	10:1A:84:GLN:NE2	2.15	0.80
2:1E:209:ARG:HH22	2:1E:239:VAL:HG22	1.47	0.80
26:1H:1299:G:N7	60:1H:3532:HOH:O	2.14	0.80
40:A8:78:LEU:HD11	40:A8:108:GLY:HA3	1.64	0.79
26:14:2380:C:P	40:65:20:ARG:NH1	2.55	0.79
27:1J:73:A:OP2	60:1J:301:HOH:O	2.00	0.79
46:C5:76:CYS:HB3	46:C5:97:ARG:HE	1.46	0.79
26:1H:2169:A:N7	26:1H:2170:A:N6	2.30	0.79
30:29:54:GLN:NE2	30:29:72:VAL:O	2.16	0.79
37:35:81:GLN:HG2	37:35:106:LEU:HA	1.63	0.79
1:13:1346:A:H5''	9:8E:120:ARG:NH1	1.97	0.79
26:1H:141:A:H8	26:1H:1595:G:H21	1.30	0.79
26:1H:1050:A:H2'	26:1H:1051:G:H8	1.47	0.79
1:1G:1120:G:O6	1:1G:1152:A:N6	2.16	0.79
3:22:47:LEU:O	3:22:51:GLY:N	2.15	0.79
9:82:121:ARG:NH1	9:82:122:ALA:O	2.15	0.79
28:79:52:ARG:NH1	28:79:52:ARG:O	2.15	0.79
9:8E:121:ARG:NH1	9:8E:122:ALA:O	2.14	0.79
26:1H:1533:C:H2'	26:1H:1534:G:C8	2.17	0.79
1:1G:975:A:H4'	1:1G:976:G:H5''	1.64	0.79
8:72:30:ARG:HG3	8:72:31:PHE:H	1.47	0.79
22:1L:5:C:N3	22:1L:68:G:N2	2.29	0.79
26:14:1416:G:O2'	26:14:1417:C:O5'	2.01	0.79
47:D5:59:LEU:HD12	47:D5:69:THR:HG21	1.64	0.79
32:41:112:PRO:HB3	52:M8:37:SER:H	1.47	0.79
5:42:79:GLU:OE1	8:72:104:ARG:HA	1.83	0.79
26:14:602:G:O2'	26:14:604:G:O2'	2.00	0.79
26:14:2315:G:OP1	32:49:36:LYS:NZ	2.15	0.79
1:13:1028(A):C:N3	1:13:1032(A):G:N2	2.31	0.79
30:21:50:GLY:HA2	30:21:77:ILE:HA	1.65	0.79
8:72:35:ILE:O	8:72:39:LEU:HD13	1.83	0.79

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:72:36:LEU:HA	8:72:39:LEU:HD22	1.63	0.79
47:D5:97:GLU:HB3	47:D5:125:LEU:HD11	1.65	0.79
1:13:1448:C:H42	1:13:1455:G:H1	1.30	0.79
24:3K:22:G:N7	24:3K:46:G:N2	2.30	0.79
2:12:105:PHE:HA	2:12:108:ILE:HG22	1.64	0.79
1:13:573:A:H5'	1:13:573:A:H8	1.48	0.79
29:19:69:ARG:NH2	29:19:128:GLY:O	2.16	0.79
47:D5:10:ARG:NH2	47:D5:26:GLY:O	2.16	0.79
4:3E:31:CYS:HB3	4:3E:34:GLU:HG2	1.65	0.79
26:1H:642:G:H21	26:1H:646:A:H2	1.31	0.79
36:68:104:ARG:NH1	41:B8:36:GLU:OE1	2.16	0.79
3:22:70:VAL:HG12	3:22:72:LYS:H	1.48	0.79
26:1H:2502:G:OP2	60:1H:3513:HOH:O	2.01	0.78
5:42:100:VAL:HG23	5:42:118:ILE:HG22	1.63	0.78
11:2A:14:VAL:HG12	11:2A:15:ALA:H	1.48	0.78
33:51:40:GLU:C	33:51:41:MET:HE3	2.06	0.78
33:51:153:LYS:HB2	33:51:155:SER:H	1.49	0.78
1:1G:1316:G:H4'	14:5A:18:VAL:HG11	1.65	0.78
26:1H:1386:C:H2'	26:1H:1387:C:H6	1.48	0.78
53:N8:16:ARG:NH1	53:N8:17:ASP:OD1	2.16	0.78
1:1G:957:U:H1'	1:1G:960:U:H5	1.47	0.78
26:1H:1678:G:N2	26:1H:1989:G:H22	1.81	0.78
30:21:197:ILE:HD11	30:21:199:ARG:HE	1.45	0.78
1:13:445:G:H1	1:13:489:C:H42	1.29	0.78
31:39:155:LEU:HD23	31:39:186:ILE:HD13	1.64	0.78
26:1H:674:G:H1'	31:31:74:ARG:HD2	1.64	0.78
2:12:98:LEU:HB2	2:12:101:MET:HE3	1.64	0.78
6:52:11:ASN:HB3	6:52:14:LEU:HD22	1.66	0.78
29:19:262:ARG:N	29:19:262:ARG:HH11	1.81	0.78
4:3E:122:ARG:NH1	4:3E:134:ASP:HB3	1.98	0.78
26:1H:376:C:OP2	60:1H:3514:HOH:O	2.02	0.78
26:1H:1329:U:H5''	26:1H:1330:C:H5	1.47	0.78
26:1H:1635:G:OP1	60:1H:3516:HOH:O	2.02	0.78
27:16:12:C:O2	48:I8:74:ARG:NH1	2.13	0.78
2:12:12:GLU:HG2	2:12:15:VAL:HB	1.66	0.78
26:14:602:G:HO2'	26:14:604:G:HO2'	1.27	0.78
26:14:2377:A:H4'	40:65:111:GLU:HG3	1.66	0.78
28:79:47:LEU:HD13	28:79:49:ILE:H	1.48	0.78
26:14:1021:A:H62	26:14:1141:U:H3	1.30	0.78
50:K8:4:SER:HB3	50:K8:7:ARG:H	1.49	0.78
1:1G:976:G:N2	1:1G:1362(A):C:OP2	2.14	0.78

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1L:9:A:C8	22:1L:45:G:H1'	2.18	0.78
26:14:1063:G:O6	26:14:1075:C:O2'	2.02	0.78
32:49:151:ALA:N	32:49:153:ARG:HH12	1.77	0.78
2:1E:198:ASP:HA	8:7E:68:ARG:HH12	1.47	0.78
5:4E:102:ALA:HB1	5:4E:106:PRO:HG2	1.65	0.78
26:1H:1022:G:N2	26:1H:1023:U:O4	2.17	0.78
26:1H:1253:A:N7	60:1H:3506:HOH:O	2.15	0.78
32:41:25:TYR:CD2	32:41:31:VAL:HG12	2.19	0.78
48:I8:11:ARG:O	48:I8:14:ARG:NH2	2.17	0.78
24:3K:6:G:N1	24:3K:67:C:O2	2.15	0.77
28:71:214:VAL:HG23	28:71:224:ILE:HD13	1.66	0.77
1:1G:1026:G:O6	1:1G:1036:G:N2	2.17	0.77
26:14:34:C:O2'	26:14:35:G:O5'	2.01	0.77
46:C5:76:CYS:HB3	46:C5:97:ARG:NE	1.99	0.77
50:G5:50:ILE:HD12	50:G5:51:ARG:N	1.99	0.77
1:13:324:G:OP2	60:13:1803:HOH:O	2.02	0.77
5:4E:15:ARG:HH11	25:4K:25:A:H5'	1.48	0.77
26:1H:2580:U:H4'	30:21:130:GLY:HA3	1.64	0.77
29:11:38:LYS:HD2	29:11:38:LYS:C	2.10	0.77
3:22:42:LEU:HA	3:22:45:LYS:HE3	1.67	0.77
26:14:288:C:O2	26:14:353:G:N2	2.18	0.77
1:13:1015:A:H2'	1:13:1016:A:C8	2.19	0.77
15:6I:17:ARG:HD3	15:6I:26:GLU:HG3	1.66	0.77
17:8I:67:LYS:HA	17:8I:70:ARG:HH12	1.50	0.77
26:1H:1047:G:N2	26:1H:1110:G:O2'	2.16	0.77
26:1H:1441:G:H2'	26:1H:1442:G:C8	2.19	0.77
35:58:96:GLU:O	35:58:98:VAL:N	2.14	0.77
26:14:2306:C:H2'	26:14:2307:G:H21	1.48	0.77
1:13:608:A:OP2	60:13:1801:HOH:O	2.01	0.77
13:4I:49:THR:HG22	13:4I:51:ALA:H	1.50	0.77
18:9I:59:SER:H	18:9I:62:GLU:HB2	1.49	0.77
1:1G:429:U:H3'	4:32:9:CYS:SG	2.24	0.77
35:15:56:ASN:H	35:15:125:GLY:HA3	1.47	0.77
38:45:81:VAL:O	38:45:82:ARG:NH1	2.16	0.77
45:B5:1:MET:H2	50:G5:29:LYS:HE3	1.50	0.77
1:13:768:A:OP2	60:13:1802:HOH:O	2.02	0.77
26:1H:563:G:OP2	60:1H:3518:HOH:O	2.03	0.77
26:1H:1418:G:OP2	60:1H:3515:HOH:O	2.02	0.77
46:G8:38:ILE:HD11	46:G8:64:GLU:HG3	1.65	0.77
8:72:120:THR:HG23	8:72:123:GLU:H	1.49	0.77
26:1H:942:G:OP2	37:78:39:LYS:NZ	2.18	0.77

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2572:A:C8	30:21:144:ARG:HG2	2.20	0.77
3:22:114:PRO:O	3:22:118:GLN:HG2	1.85	0.77
28:71:48:GLY:HA3	28:71:208:PHE:HA	1.67	0.77
3:22:106:VAL:HB	3:22:109:PRO:HB3	1.66	0.77
26:14:1154:G:OP2	42:85:58:ARG:NH1	2.18	0.77
4:3E:122:ARG:NH1	4:3E:134:ASP:O	2.17	0.77
23:2K:17:C:OP2	23:2K:18:C:O2'	2.02	0.77
43:D8:24:LYS:HA	43:D8:92:THR:HG23	1.65	0.77
1:1G:142:G:H1	1:1G:221:C:H42	1.33	0.77
5:42:101:ILE:O	5:42:120:THR:OG1	2.01	0.77
26:1H:226:G:H21	26:1H:228:A:H2	1.32	0.76
26:1H:1016:G:N7	60:1H:3548:HOH:O	2.18	0.76
26:1H:2656:U:H3	26:1H:2665:A:H2	1.32	0.76
1:1G:413:G:H2'	1:1G:428:G:H22	1.50	0.76
1:1G:1154:G:H2'	1:1G:1155:G:H8	1.50	0.76
4:32:94:LEU:HA	4:32:97:LEU:HD12	1.66	0.76
7:62:93:PRO:HD2	7:62:94:ARG:NH2	2.00	0.76
16:7A:53:VAL:HG13	16:7A:79:VAL:HG22	1.64	0.76
26:14:848:G:H2'	26:14:849:A:C8	2.20	0.76
36:25:35:VAL:HG11	36:25:103:ALA:HB3	1.64	0.76
1:13:1128:C:O2'	1:13:1146:A:N1	2.17	0.76
26:1H:847:U:OP2	60:1H:3517:HOH:O	2.02	0.76
1:1G:1347:G:N7	9:82:10:ARG:NH2	2.33	0.76
26:14:2808:U:O2	26:14:2892:A:N6	2.19	0.76
24:3K:3:G:N2	24:3K:70:C:N3	2.32	0.76
26:1H:270(J):G:N2	26:1H:270(P):C:O2	2.17	0.76
33:51:157:TYR:H	33:51:170:ARG:HA	1.50	0.76
2:12:71:VAL:HG11	2:12:164:VAL:HA	1.66	0.76
37:35:14:LYS:O	37:35:16:ARG:N	2.19	0.76
1:13:64:G:O6	1:13:99:C:N4	2.18	0.76
4:3E:187:ARG:NH2	4:3E:193:ASP:OD2	2.18	0.76
26:14:833:U:O2	37:35:55:ARG:NH1	2.17	0.76
11:2I:73:MET:HE2	11:2I:103:LEU:HD13	1.67	0.76
26:14:1330:C:OP1	60:14:3405:HOH:O	2.02	0.76
44:A5:18:ARG:HE	44:A5:76:VAL:HG13	1.50	0.76
26:1H:2791:C:N4	26:1H:2805:G:O6	2.18	0.76
27:1J:5:C:H42	27:1J:115:G:H1	1.32	0.76
26:1H:1026:U:H1'	26:1H:1027:A:O5'	1.84	0.76
35:58:49:GLY:C	35:58:119:ARG:HH12	1.93	0.76
26:14:1678:G:H22	26:14:1989:G:H22	1.33	0.76
31:39:38:ARG:HE	31:39:99:TYR:HH	1.30	0.76

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:87:LYS:HG2	46:C5:88:LYS:H	1.51	0.76
48:E5:12:ASN:HA	48:E5:14:ARG:HH21	1.50	0.76
22:1K:9:A:N6	22:1K:22:G:N7	2.33	0.76
26:1H:517:C:OP1	53:N8:16:ARG:NH2	2.17	0.76
4:32:108:LEU:HD21	4:32:183:GLY:HA3	1.68	0.76
1:13:112:G:OP1	16:7I:27:LYS:HD2	1.86	0.76
26:1H:67:U:H3	26:1H:74:A:H2	1.33	0.76
26:14:929:G:O6	60:14:3404:HOH:O	2.01	0.76
30:29:25:VAL:HG12	30:29:26:ILE:H	1.50	0.76
30:29:54:GLN:H	30:29:74:PRO:HB3	1.51	0.76
47:D5:5:LEU:HD11	47:D5:44:PHE:HA	1.67	0.76
49:F5:91:LYS:HD3	49:F5:92:LYS:N	2.00	0.76
1:1G:458:C:O2	1:1G:474:G:N2	2.19	0.76
9:82:46:ALA:HB2	9:82:74:ILE:HG23	1.67	0.76
13:4A:54:VAL:HA	13:4A:57:ARG:HB3	1.66	0.76
41:75:26:ASP:OD1	41:75:120:ARG:NH2	2.13	0.76
42:85:74:LEU:HD13	42:85:79:PHE:HB2	1.68	0.76
26:1H:1040:C:N4	26:1H:1115:G:O6	2.20	0.75
29:11:206:LEU:HD13	29:11:211:ARG:HG2	1.68	0.75
42:C8:92:ARG:O	42:C8:94:ASN:N	2.19	0.75
26:14:2098:U:N3	26:14:2191:G:O6	2.12	0.75
41:75:11:GLU:OE1	41:75:11:GLU:N	2.18	0.75
1:13:410:G:OP1	4:3E:30:LYS:NZ	2.19	0.75
26:1H:2334:G:H5'	40:A8:9:ARG:HG2	1.69	0.75
42:C8:8:VAL:HG23	42:C8:11:ARG:HH21	1.50	0.75
1:1G:353:A:H5'	1:1G:353:A:H8	1.49	0.75
42:85:90:VAL:HA	43:95:39:LEU:HD13	1.68	0.75
1:13:1226:C:O2'	13:4I:111:LYS:NZ	2.18	0.75
38:88:37:LEU:HD21	38:88:130:LYS:HG2	1.66	0.75
50:K8:4:SER:CB	50:K8:7:ARG:H	2.00	0.75
2:12:82:ARG:NH1	2:12:92:TYR:OH	2.18	0.75
39:55:85:PRO:O	39:55:88:ARG:HD2	1.86	0.75
30:21:201:THR:HG22	30:21:203:LYS:H	1.50	0.75
5:42:102:ALA:HB1	5:42:106:PRO:HG2	1.66	0.75
24:3L:52:G:N2	24:3L:62:C:O2	2.19	0.75
26:14:2685:G:O6	60:14:3406:HOH:O	2.03	0.75
38:88:65:PHE:O	38:88:66:ILE:HG13	1.85	0.75
48:I8:23:VAL:HA	48:I8:38:VAL:HG22	1.67	0.75
7:62:65:ALA:HB3	7:62:124:LEU:HD23	1.69	0.75
1:13:975:A:H4'	1:13:976:G:H5''	1.69	0.75
46:G8:43:ASN:O	46:G8:64:GLU:HA	1.87	0.75

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:362:G:H4'	12:3A:33:ARG:HH21	1.51	0.75
2:12:50:GLU:HG3	2:12:201:ILE:HG12	1.67	0.75
26:14:597:U:H2'	26:14:598:G:C8	2.21	0.75
26:14:1210:A:H5'	26:14:1212:G:H5'	1.68	0.75
30:29:60:ASN:HB2	30:29:62:PRO:HD2	1.69	0.75
3:2E:107:GLN:OE1	3:2E:107:GLN:N	2.20	0.75
16:7I:74:LEU:HA	16:7I:77:ALA:HB2	1.69	0.75
26:1H:309:G:N3	26:1H:329:G:O2'	2.19	0.75
50:K8:42:GLY:O	50:K8:44:LEU:N	2.20	0.75
1:1G:1095:U:OP1	1:1G:1108:G:N2	2.19	0.75
1:1G:1133:G:N2	1:1G:1141:C:O2	2.19	0.75
1:1G:1179:A:H4'	9:82:103:THR:HA	1.69	0.75
26:14:71:A:H5'	26:14:71:A:C8	2.21	0.75
31:39:66:PRO:O	31:39:67:GLN:HB3	1.86	0.75
41:B8:102:ILE:H	41:B8:102:ILE:HD12	1.52	0.75
1:1G:1368:G:H4'	10:1A:46:ARG:HH22	1.52	0.75
26:14:1056:G:O2'	26:14:1087:G:O6	2.05	0.75
9:8E:15:ALA:HB2	9:8E:65:VAL:HG23	1.69	0.75
26:1H:1542:G:OP2	26:1H:1543:A:O2'	2.05	0.75
35:58:129:PRO:O	35:58:134:ARG:NH1	2.19	0.75
43:D8:44:LYS:O	43:D8:46:VAL:N	2.18	0.75
50:K8:47:ASN:O	50:K8:49:LYS:N	2.18	0.75
26:14:1332:G:OP1	60:14:3407:HOH:O	2.04	0.75
26:14:1754:C:OP1	41:75:96:ARG:NH1	2.20	0.75
26:14:2415:G:H4'	37:35:67:MET:H	1.52	0.75
51:H5:7:LYS:HG3	51:H5:34:GLU:HG2	1.69	0.75
1:13:200:G:N2	1:13:218:C:O2	2.20	0.74
6:5E:18:GLN:HA	6:5E:21:LEU:HG	1.68	0.74
9:82:27:THR:HG22	9:82:32:ASP:HA	1.67	0.74
26:14:1332:G:C8	26:14:1332:G:H5'	2.22	0.74
4:3E:122:ARG:CZ	4:3E:134:ASP:HB3	2.17	0.74
28:71:16:PRO:HA	28:71:223:ARG:HB2	1.69	0.74
52:M8:12:ALA:HB3	52:M8:24:THR:HB	1.67	0.74
26:14:2079:U:O3'	49:F5:35:THR:OG1	2.05	0.74
48:I8:72:ARG:HB3	48:I8:75:LEU:HB2	1.70	0.74
30:29:50:GLY:HA2	30:29:78:LEU:HB3	1.69	0.74
24:3L:58:A:O2'	24:3L:60:U:OP2	2.05	0.74
26:14:1730:U:H3'	26:14:1731:G:H21	1.53	0.74
26:1H:1050:A:H2'	26:1H:1051:G:C8	2.22	0.74
26:1H:2308:G:N1	26:1H:2311:A:H2	1.86	0.74
36:68:35:VAL:HG11	36:68:103:ALA:HB3	1.68	0.74

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:47:ASP:OD2	37:78:50:ARG:NH2	2.20	0.74
1:1G:1432:G:N1	60:1G:1701:HOH:O	2.19	0.74
26:14:395:U:H2'	26:14:396:G:N7	2.02	0.74
1:13:396:G:O2'	1:13:398:C:OP1	2.05	0.74
3:2E:36:ASP:OD1	3:2E:59:ARG:NH2	2.21	0.74
8:7E:106:GLY:O	8:7E:122:ARG:NH2	2.21	0.74
1:1G:1154:G:H2'	1:1G:1155:G:C8	2.23	0.74
6:5E:50:TYR:OH	18:9I:74:ARG:O	2.03	0.74
12:3I:117:ARG:HB3	12:3I:122:THR:HB	1.69	0.74
30:21:101:ARG:HG2	30:21:169:ASN:OD1	1.87	0.74
3:22:57:ILE:HG12	3:22:66:VAL:HG22	1.70	0.74
5:42:101:ILE:HD11	5:42:119:LEU:HD23	1.69	0.74
26:14:198:C:H5'	26:14:2244:U:OP1	1.88	0.74
1:13:1391:U:H2'	1:13:1392:G:C8	2.23	0.74
52:M8:40:HIS:HB2	52:M8:47:GLN:HE22	1.52	0.74
30:29:48:GLN:NE2	30:29:78:LEU:HD13	2.02	0.74
43:95:85:LYS:HG3	43:95:87:HIS:N	2.03	0.74
1:13:538:G:H5''	12:3I:114:LYS:HB2	1.70	0.74
1:13:1305:G:H22	1:13:1331:G:H2'	1.52	0.74
14:5I:3:ARG:O	14:5I:6:LEU:N	2.19	0.74
26:1H:945:A:N3	60:1H:3557:HOH:O	2.20	0.74
26:1H:2287:A:H62	26:1H:2344:U:H3	1.35	0.74
26:1H:2315:G:OP1	32:41:36:LYS:NZ	2.19	0.74
26:1H:2492:U:H2'	26:1H:2493:U:C6	2.23	0.74
1:1G:978:A:O2'	1:1G:1322:C:N3	2.21	0.74
1:1G:1239:A:H4'	1:1G:1240:U:H5''	1.69	0.74
46:C5:14:LEU:HB2	46:C5:75:ILE:HD11	1.70	0.74
1:13:737:A:H2'	1:13:738:C:C6	2.23	0.74
1:13:1316:G:H4'	14:5I:18:VAL:HG11	1.69	0.74
13:4I:98:VAL:HG23	13:4I:99:ARG:HG3	1.70	0.74
2:12:58:ILE:HG23	2:12:62:ALA:HB3	1.69	0.74
22:1L:9:A:H3'	22:1L:10:G:C8	2.23	0.74
26:1H:138:G:N2	45:F8:44:GLU:OE2	2.13	0.73
41:B8:42:ILE:HD12	41:B8:42:ILE:O	1.88	0.73
1:1G:278:G:OP2	17:8A:41:LYS:NZ	2.21	0.73
1:1G:371:G:O2'	1:1G:373:A:N7	2.19	0.73
2:1E:212:GLN:NE2	2:1E:216:SER:OG	2.21	0.73
26:1H:49:A:N7	26:1H:120:U:H5	1.86	0.73
1:1G:186(B):C:O4'	20:BA:89:ARG:NH2	2.21	0.73
1:1G:1258:G:H1	1:1G:1277:C:H42	1.36	0.73
47:H8:19:ARG:NH1	47:H8:84:GLU:O	2.21	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1392:G:H21	1:1G:1502:A:H8	1.36	0.73
49:F5:52:ARG:HD2	49:F5:57:GLU:HG3	1.70	0.73
1:1G:345:C:OP2	41:75:39:ARG:NH2	2.21	0.73
3:22:6:HIS:CE1	3:22:8:ILE:HB	2.23	0.73
27:1J:15:A:H1'	27:1J:109:G:C8	2.24	0.73
40:65:106:ARG:HA	40:65:110:LEU:HD11	1.70	0.73
42:85:97:ASP:OD1	42:85:98:LEU:N	2.20	0.73
24:3K:11:C:H42	24:3K:24:G:H1	1.35	0.73
30:21:82:ARG:O	30:21:84:PHE:N	2.21	0.73
40:A8:61:ASN:ND2	40:A8:64:GLU:OE1	2.21	0.73
1:1G:673:G:H2'	1:1G:674:G:C8	2.24	0.73
1:1G:1273:G:H3'	1:1G:1274:G:H8	1.53	0.73
1:1G:1395:C:HO2'	1:1G:1401:G:HO2'	1.21	0.73
1:13:877:C:H5''	8:7E:88:LYS:HD3	1.70	0.73
2:1E:8:LYS:HG2	2:1E:9:GLU:HG2	1.70	0.73
10:1I:84:GLN:HG3	10:1I:88:LEU:HD13	1.69	0.73
28:71:177:LYS:HG3	28:71:179:SER:HB2	1.70	0.73
49:J8:23:LYS:HB3	49:J8:29:GLY:HA3	1.70	0.73
26:14:1225:C:O3'	43:95:85:LYS:HA	1.88	0.73
41:75:3:ARG:HG2	41:75:6:LEU:H	1.53	0.73
1:13:1331:G:OP1	1:13:1331:G:H4'	1.87	0.73
4:3E:122:ARG:NH2	4:3E:134:ASP:HB3	2.03	0.73
26:1H:1778:U:H2'	26:1H:1784:A:N6	2.04	0.73
1:1G:614:A:H61	1:1G:626:U:H3	1.33	0.73
9:82:71:SER:HA	9:82:74:ILE:HD12	1.69	0.73
26:14:84:A:N6	26:14:102:G:O2'	2.19	0.73
26:14:2032:G:H21	30:29:146:THR:HG23	1.53	0.73
1:13:1062:U:H2'	1:13:1063:C:C6	2.24	0.73
26:1H:1164:G:H2'	26:1H:1165:U:C6	2.24	0.73
55:Q8:52:LYS:O	55:Q8:54:GLU:N	2.21	0.73
26:14:2415:G:H4'	37:35:67:MET:N	2.04	0.73
1:13:505:G:N7	60:13:1811:HOH:O	2.22	0.73
3:2E:58:GLU:HB2	3:2E:65:ALA:HB3	1.70	0.73
26:1H:1525:G:H2'	26:1H:1526:G:C8	2.24	0.73
29:11:183:ARG:HH11	29:11:269:PHE:HB2	1.51	0.73
43:D8:37:VAL:O	43:D8:38:LEU:HG	1.88	0.73
1:1G:1001:G:H2'	1:1G:1002:G:H8	1.54	0.73
1:1G:1124:G:O2'	1:1G:1145:C:N4	2.21	0.73
4:32:168:ARG:NH1	4:32:169:LYS:O	2.22	0.73
30:29:31:CYS:SG	30:29:51:PHE:HB2	2.29	0.73
26:1H:459:U:H5''	54:P8:40:TRP:CD2	2.23	0.73

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:Q8:33:ASN:OD1	55:Q8:36:LYS:NZ	2.16	0.73
2:1E:84:GLU:HB3	2:1E:219:VAL:HG21	1.70	0.72
11:2I:69:ALA:HB1	11:2I:73:MET:HE3	1.71	0.72
12:3A:27:LEU:HD22	12:3A:60:LEU:HB3	1.71	0.72
45:B5:57:LEU:HD11	45:B5:78:LYS:HE2	1.71	0.72
1:13:1030:C:H2'	1:13:1031:G:C8	2.23	0.72
26:1H:55:G:H2'	26:1H:56:A:H8	1.54	0.72
26:1H:1535:U:OP2	26:1H:1538:G:N2	2.21	0.72
28:71:14:VAL:HA	28:71:222:VAL:HG22	1.69	0.72
11:2A:27:ASN:HD22	11:2A:55:LYS:HB3	1.54	0.72
26:1H:2327:A:H2'	26:1H:2328:A:C8	2.25	0.72
35:58:57:ALA:C	35:58:59:LYS:H	1.97	0.72
1:13:1536:C:N4	25:4K:10:G:O2'	2.22	0.72
18:9I:33:ASP:O	18:9I:36:ASN:ND2	2.22	0.72
50:K8:42:GLY:C	50:K8:44:LEU:H	1.96	0.72
1:1G:1248:A:N6	1:1G:1288:A:OP2	2.22	0.72
26:14:2880:C:H1'	39:55:92:GLY:HA3	1.69	0.72
44:E8:92:ARG:HH22	44:E8:94:ASP:HA	1.55	0.72
1:13:1006:C:O2	1:13:1023:G:N2	2.17	0.72
1:13:1450:U:H3	1:13:1452:C:H5'	1.53	0.72
26:1H:1664:A:OP2	60:1H:3521:HOH:O	2.07	0.72
1:1G:189:U:O2'	17:8A:63:ARG:NH2	2.23	0.72
2:12:41:ILE:HD12	2:12:42:ILE:HD12	1.70	0.72
1:13:143:A:H2	1:13:220:G:H1	1.36	0.72
26:1H:1509:C:O2'	26:1H:1510:A:OP1	2.06	0.72
3:22:84:ILE:HG23	3:22:85:ARG:HD2	1.70	0.72
26:14:459:U:H5''	54:L5:40:TRP:CD2	2.24	0.72
27:16:15:A:H5'	27:16:16:G:H8	1.55	0.72
30:21:116:VAL:O	30:21:117:MET:HB3	1.89	0.72
1:1G:425:G:O3'	4:32:45:GLN:NE2	2.23	0.72
1:1G:742:G:OP2	15:6A:35:ARG:NH2	2.23	0.72
2:1E:174:VAL:HG13	2:1E:184:VAL:HG11	1.71	0.72
26:1H:1330:C:OP1	60:1H:3519:HOH:O	2.05	0.72
1:1G:1435:G:H2'	1:1G:1436:U:C6	2.25	0.72
26:14:1060:U:H4'	26:14:1061:U:H5''	1.72	0.72
33:59:171:LEU:CD1	33:59:172:LYS:H	2.03	0.72
47:D5:60:GLU:HB2	47:D5:66:SER:HB2	1.72	0.72
1:13:835:U:H3	1:13:851:G:H1	1.36	0.72
1:1G:1373:G:H5''	7:62:36:LYS:HB2	1.70	0.72
26:14:1109:C:H2'	26:14:1110:G:H1'	1.71	0.72
40:A8:93:LYS:HG2	40:A8:95:HIS:HB2	1.72	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:97:ASP:OD2	42:C8:101:ARG:NH1	2.23	0.71
46:G8:34:LYS:HG2	46:G8:36:ALA:HB2	1.70	0.71
1:1G:762:C:H2'	1:1G:763:G:H8	1.55	0.71
1:1G:980:C:H5'	1:1G:981:U:C5	2.24	0.71
26:14:2873:A:H8	39:55:6:SER:H	1.37	0.71
27:1J:18:G:H1	27:1J:65:C:H42	1.37	0.71
41:75:106:SER:HA	41:75:110:ILE:HD12	1.72	0.71
1:1G:452:A:H4'	16:7A:72:ARG:HH12	1.55	0.71
29:19:30:GLU:HG3	29:19:63:ARG:CZ	2.20	0.71
1:13:190:G:H3'	1:13:191(A):G:H5'	1.73	0.71
1:13:1034:G:N2	1:13:1035:A:N7	2.35	0.71
27:16:42:C:O2'	32:41:67:LYS:O	2.05	0.71
30:21:2:LYS:HD2	30:21:95:ILE:HG23	1.70	0.71
36:68:7:TYR:HE1	36:68:20:MET:HE3	1.54	0.71
26:14:2131:G:N2	26:14:2158:A:OP2	2.24	0.71
29:19:72:LYS:NZ	29:19:99:ASP:OD2	2.17	0.71
33:59:10:PRO:O	33:59:51:ARG:NH1	2.21	0.71
49:F5:5:CYS:SG	49:F5:8:SER:OG	2.47	0.71
12:3I:36:VAL:HG12	12:3I:59:ARG:HB3	1.72	0.71
40:A8:85:VAL:HG23	40:A8:112:PHE:CZ	2.24	0.71
1:1G:1080:A:H5'	5:42:14:ARG:HH21	1.54	0.71
3:22:182:ILE:HG22	3:22:203:PHE:HA	1.73	0.71
4:32:106:TYR:O	4:32:109:GLY:N	2.22	0.71
8:72:121:ASP:OD1	8:72:125:ARG:NH2	2.24	0.71
26:14:70:G:H21	26:14:71:A:H62	1.36	0.71
1:13:262:A:H2'	1:13:263:A:C8	2.25	0.71
1:13:1322:C:H5''	13:4I:100:GLY:HA2	1.70	0.71
5:4E:91:LEU:HD12	5:4E:118:ILE:HD11	1.72	0.71
26:1H:882:G:H1	26:1H:894:C:H42	1.37	0.71
26:1H:1165:U:H2'	26:1H:1166:C:C6	2.25	0.71
26:1H:2287:A:N6	26:1H:2344:U:H3	1.89	0.71
34:61:73:GLU:HG3	34:61:136:VAL:HG23	1.71	0.71
1:1G:1502:A:H2	1:1G:1505:G:H1	1.38	0.71
20:BA:33:ILE:O	20:BA:37:SER:OG	2.05	0.71
34:69:81:VAL:H	34:69:143:SER:HB3	1.55	0.71
1:13:711:G:OP1	6:5E:54:LYS:NZ	2.24	0.71
6:5E:43:LEU:CD2	6:5E:46:ARG:HD2	2.20	0.71
26:1H:1265:A:OP2	60:1H:3522:HOH:O	2.07	0.71
26:1H:1352:U:OP1	60:1H:3520:HOH:O	2.07	0.71
1:1G:1111:A:H61	3:22:176:HIS:HB3	1.56	0.71
3:22:87:LEU:H	3:22:88:ARG:HH21	1.38	0.71

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:6A:16:ALA:HB1	15:6A:21:ASP:HB3	1.72	0.71
26:14:629:G:H1	26:14:634:C:H42	1.38	0.71
32:49:129:GLY:O	32:49:130:ASN:ND2	2.23	0.71
36:25:98:VAL:HG12	36:25:117:LEU:HB3	1.72	0.71
48:E5:21:LEU:HD11	48:E5:41:ARG:HH11	1.55	0.71
1:13:649:G:H2'	1:13:650:G:H8	1.55	0.71
1:13:755:G:H21	8:7E:1:MET:HE1	1.54	0.71
5:4E:101:ILE:O	5:4E:120:THR:OG1	2.08	0.71
9:8E:50:LEU:HD22	9:8E:55:ALA:HB3	1.72	0.71
9:8E:112:LYS:HA	9:8E:119:ALA:HB2	1.72	0.71
20:BI:43:LEU:HD13	20:BI:51:GLU:OE1	1.91	0.71
47:H8:76:LEU:HA	47:H8:83:PRO:HA	1.72	0.71
26:1H:458:G:O2'	26:1H:469:G:O6	2.06	0.71
17:8A:66:SER:O	17:8A:70:ARG:NH1	2.24	0.71
26:14:943:U:OP2	37:35:36:LYS:NZ	2.21	0.71
27:1J:83:G:N2	27:1J:93:C:O2	2.16	0.71
36:25:24:VAL:HA	36:25:39:ILE:HG22	1.72	0.71
37:35:122:PRO:HB3	37:35:141:ALA:HB1	1.73	0.71
43:95:70:ILE:N	43:95:86:GLY:O	2.24	0.71
26:1H:270(P):C:H1'	34:61:50:ARG:HH12	1.54	0.71
26:1H:1607:C:H4'	26:1H:1608:A:O5'	1.91	0.71
37:78:63:PRO:HB3	55:Q8:30:ARG:HH21	1.55	0.71
1:1G:108:G:H5'	1:1G:109:A:H5''	1.73	0.71
4:32:199:ASN:O	4:32:200:GLU:HG2	1.90	0.71
27:1J:8:U:O3'	40:65:25:ARG:NH2	2.23	0.71
28:79:44:HIS:CD2	28:79:172:HIS:HA	2.26	0.71
44:A5:88:ARG:NH1	44:A5:94:ASP:OD2	2.23	0.71
2:1E:74:LYS:HB2	2:1E:208:ILE:HD13	1.73	0.71
5:4E:50:GLU:HB2	5:4E:53:LEU:HD13	1.72	0.71
6:5E:1:MET:HE2	6:5E:68:PRO:HD3	1.73	0.71
21:1F:8:THR:HG23	21:1F:11:GLY:H	1.56	0.71
26:1H:910:A:H62	38:88:12:GLN:HA	1.55	0.71
26:1H:1570:A:H5'	29:11:37:LEU:HD21	1.73	0.71
26:1H:2111:C:N4	26:1H:2147:G:O6	2.24	0.71
29:11:106:ILE:HD11	29:11:143:HIS:HD2	1.56	0.71
4:32:31:CYS:C	4:32:33:MET:H	1.99	0.71
26:1H:1538:G:H2'	26:1H:1539:G:C8	2.26	0.70
37:78:39:LYS:CA	37:78:45:LEU:CD1	2.68	0.70
37:78:39:LYS:HB2	37:78:45:LEU:HD11	1.70	0.70
26:14:1153:C:OP1	42:85:93:LYS:NZ	2.25	0.70
26:14:1314:C:OP1	60:14:3408:HOH:O	2.09	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2232:U:P	49:F5:40:ARG:HH22	2.14	0.70
26:14:2287:A:N6	26:14:2344:U:H3	1.88	0.70
1:13:321:A:H62	1:13:328:C:H1'	1.54	0.70
26:1H:50:U:H3'	26:1H:51:G:H5'	1.73	0.70
12:3A:82:VAL:N	12:3A:106:ASP:OD2	2.18	0.70
26:14:329:G:H1	46:C5:19:LYS:NZ	1.88	0.70
38:45:79:LEU:HG	38:45:79:LEU:O	1.91	0.70
49:F5:91:LYS:HD3	49:F5:92:LYS:H	1.57	0.70
5:4E:43:LEU:HD11	5:4E:132:ALA:HB1	1.73	0.70
26:1H:831:G:OP1	60:1H:3526:HOH:O	2.09	0.70
26:1H:910:A:C5	38:88:13:GLN:HG3	2.26	0.70
26:1H:2588:G:OP1	60:1H:3523:HOH:O	2.08	0.70
1:1G:1114:C:H1'	14:5A:60:SER:HB3	1.74	0.70
1:1G:1342:C:H4'	9:82:125:TYR:HB2	1.73	0.70
2:12:80:ILE:HD13	2:12:212:GLN:HG3	1.72	0.70
40:65:74:ALA:HB1	40:65:107:GLU:HB2	1.72	0.70
55:M5:33:ASN:O	55:M5:35:GLN:N	2.24	0.70
1:13:5:U:H3	4:3E:87:GLY:HA3	1.56	0.70
2:1E:165:VAL:HG23	2:1E:166:ASP:H	1.57	0.70
24:3K:11:C:N4	24:3K:24:G:H1	1.88	0.70
28:71:30:LYS:NZ	28:71:39:GLU:OE2	2.25	0.70
29:11:72:LYS:HD2	29:11:75:ILE:HD12	1.73	0.70
1:1G:1294:G:H2'	1:1G:1295:G:C8	2.26	0.70
26:14:138:G:N2	45:B5:44:GLU:OE2	2.22	0.70
41:75:50:ILE:HD11	41:75:102:ILE:HG12	1.73	0.70
1:13:1279:A:O2'	1:13:1281:U:OP2	2.09	0.70
32:41:161:THR:HG22	32:41:163:ALA:H	1.57	0.70
2:12:91:PRO:HG3	2:12:154:LEU:HB2	1.73	0.70
26:14:2622:C:H5'	30:29:159:HIS:ND1	2.07	0.70
29:19:25:THR:CG2	29:19:82:ILE:H	2.05	0.70
3:2E:7:PRO:O	3:2E:11:ARG:HG2	1.91	0.70
6:5E:62:TRP:CH2	6:5E:64:GLN:HG2	2.26	0.70
26:1H:1040:C:N3	26:1H:1115:G:N1	2.37	0.70
27:16:90:C:H5'	38:88:18:LYS:HA	1.72	0.70
44:E8:57:ASN:HA	44:E8:61:ASN:HD22	1.55	0.70
47:H8:108:PRO:HB2	47:H8:112:ARG:HA	1.72	0.70
1:1G:438:G:H4'	4:32:123:HIS:CD2	2.27	0.70
1:1G:542:G:OP1	4:32:10:ARG:NH2	2.21	0.70
22:1L:28:U:H3	22:1L:42:A:H2	1.37	0.70
26:14:259:G:HO2'	26:14:621:A:HO2'	1.37	0.70
27:1J:15:A:H3'	27:1J:16:G:H5'	1.73	0.70

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:37:ARG:HE	30:29:42:ASP:CG	1.98	0.70
24:3K:76:A:H8	26:1H:2394:C:H42	1.39	0.70
41:B8:88:ILE:HD13	41:B8:91:ARG:CZ	2.20	0.70
1:1G:448:A:P	1:1G:485:G:H22	2.15	0.70
1:1G:660:G:H1	1:1G:745:C:H42	1.40	0.70
13:4A:13:LYS:HD3	13:4A:14:ARG:N	2.06	0.70
26:14:67:U:H3	26:14:74:A:H2	1.39	0.70
26:1H:994:C:OP1	42:C8:53:ARG:NH2	2.25	0.70
26:1H:996:A:OP2	42:C8:92:ARG:NH2	2.25	0.70
26:1H:2401:U:H2'	26:1H:2402:C:H5''	1.74	0.70
26:14:2118:U:O2'	26:14:2145:C:O2	2.10	0.70
26:14:2162:G:O2'	26:14:2173:A:OP1	2.08	0.70
41:75:54:ARG:HA	41:75:59:THR:HG23	1.74	0.70
1:13:468:A:H5''	16:7I:80:PHE:HB3	1.74	0.70
1:13:1280:A:H3'	1:13:1281:U:H5'	1.73	0.70
7:6E:22:LEU:HD22	7:6E:62:PHE:CE2	2.27	0.70
17:8I:88:TYR:HD1	17:8I:89:LEU:HD22	1.57	0.70
26:1H:1728:G:H8	26:1H:1732:A:H62	1.39	0.70
26:14:71:A:H2	45:B5:31:HIS:CE1	2.10	0.70
26:14:2878:U:O4	60:14:3410:HOH:O	2.09	0.70
42:85:92:ARG:NH2	43:95:10:LYS:HA	2.06	0.70
12:3I:24:VAL:HB	12:3I:27:LEU:HD12	1.74	0.70
26:1H:2124:G:N2	26:1H:2175:C:N3	2.39	0.70
37:78:97:PRO:HA	37:78:100:LEU:HB2	1.73	0.70
46:G8:81:LYS:HD2	46:G8:99:CYS:SG	2.31	0.70
26:14:389:G:OP1	49:F5:25:LYS:HE2	1.90	0.70
29:19:264:LYS:HG2	29:19:266:SER:HB3	1.74	0.70
47:D5:94:GLU:O	47:D5:129:SER:HA	1.91	0.70
15:6I:24:SER:HB3	15:6I:27:VAL:HG23	1.74	0.69
26:1H:2359:C:OP2	60:1H:3525:HOH:O	2.09	0.69
5:42:68:GLU:OE1	5:42:143:ARG:NH1	2.25	0.69
6:52:76:ALA:HB1	6:52:80:ARG:HH21	1.57	0.69
31:39:38:ARG:HH21	31:39:99:TYR:HE1	0.72	0.69
36:25:20:MET:HE3	36:25:44:LYS:HE3	1.74	0.69
45:B5:1:MET:N	50:G5:29:LYS:HE3	2.05	0.69
45:B5:63:LYS:N	45:B5:63:LYS:HD3	2.07	0.69
2:1E:67:THR:HG21	2:1E:155:LEU:HG	1.74	0.69
2:1E:209:ARG:NH1	2:1E:235:SER:O	2.25	0.69
3:2E:150:LYS:HE2	3:2E:152:ILE:HD11	1.73	0.69
13:4I:16:ASP:HB2	13:4I:31:LYS:HE3	1.74	0.69
15:6I:82:ILE:O	15:6I:86:GLY:N	2.25	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2588:G:OP1	60:1H:3524:HOH:O	2.08	0.69
28:71:10:LEU:HA	28:71:13:LYS:HD3	1.72	0.69
41:B8:3:ARG:O	41:B8:7:ILE:N	2.25	0.69
50:K8:47:ASN:C	50:K8:49:LYS:H	2.00	0.69
26:14:635:C:O2'	26:14:639:U:OP1	2.09	0.69
26:14:1171:G:O2'	26:14:1173:G:O4'	2.07	0.69
26:14:1486:A:H2'	26:14:1487:G:C8	2.27	0.69
37:35:13:ASN:C	37:35:15:ARG:H	2.00	0.69
48:E5:56:ASP:OD2	48:E5:58:THR:OG1	2.07	0.69
1:13:323:U:H5'	20:BI:23:ARG:HB2	1.73	0.69
1:13:1238:A:H62	1:13:1301:U:H3	1.39	0.69
3:2E:123:GLN:HE22	3:2E:136:GLN:NE2	1.89	0.69
26:1H:1900:A:H5'	26:1H:1900:A:C8	2.26	0.69
28:71:32:LEU:HD23	28:71:220:PRO:HG2	1.74	0.69
40:A8:85:VAL:HG23	40:A8:112:PHE:HZ	1.56	0.69
1:1G:1181:G:N2	1:1G:1182:G:O2'	2.25	0.69
26:14:960:A:H61	38:45:82:ARG:HH21	1.39	0.69
29:19:262:ARG:HD3	29:19:262:ARG:N	1.92	0.69
31:39:103:LYS:HA	31:39:106:ARG:HG3	1.73	0.69
35:15:7:LYS:HE2	35:15:7:LYS:HA	1.74	0.69
4:3E:108:LEU:HD23	4:3E:110:PHE:HE1	1.56	0.69
26:1H:1278:A:OP1	39:98:36:THR:HG22	1.92	0.69
37:78:49:ARG:HH11	37:78:49:ARG:HB2	1.57	0.69
38:88:19:GLY:O	38:88:21:THR:OG1	2.05	0.69
45:F8:61:GLY:N	45:F8:75:ASP:OD1	2.16	0.69
4:32:60:GLU:HG2	4:32:202:LEU:HB2	1.74	0.69
26:14:606:U:P	31:39:104:LYS:CD	2.80	0.69
26:14:2353:G:N2	26:14:2364:C:O2	2.25	0.69
1:13:1240:U:OP2	7:6E:116:ALA:N	2.26	0.69
26:1H:660:G:H21	37:78:12:ALA:HA	1.57	0.69
26:1H:2475:C:H1'	26:1H:2477:C:H5	1.58	0.69
29:19:44:ASN:HB3	29:19:45:ASN:C	2.18	0.69
8:7E:87:SER:HB2	8:7E:93:VAL:HB	1.73	0.69
13:4I:106:ASN:O	13:4I:106:ASN:ND2	2.24	0.69
28:71:22:ILE:HG12	28:71:189:ILE:HG21	1.74	0.69
29:11:10:THR:OG1	29:11:13:ARG:HB2	1.92	0.69
4:32:24:GLU:HG2	4:32:25:ARG:H	1.57	0.69
5:42:105:VAL:HG21	5:42:128:PRO:HB3	1.74	0.69
11:2A:67:ASP:OD2	11:2A:71:LYS:NZ	2.24	0.69
26:14:582:G:H2'	26:14:583:G:C8	2.28	0.69
2:1E:69:LEU:HD23	2:1E:159:PRO:HG3	1.74	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BI:71:THR:HG22	20:BI:72:LEU:H	1.56	0.69
29:11:39:LYS:HG3	29:11:40:THR:H	1.58	0.69
1:1G:345:C:O3'	41:75:41:ARG:NH2	2.25	0.69
1:1G:564:C:O2'	8:72:91:ARG:NH2	2.25	0.69
1:1G:979:C:H3'	1:1G:980:C:H5''	1.75	0.69
26:14:486:C:O2'	44:A5:60:ASN:ND2	2.22	0.69
26:14:1786:A:H1'	26:14:1938:A:N6	2.06	0.69
1:13:263:A:OP2	20:BI:79:ARG:NH1	2.25	0.69
1:13:323:U:OP2	60:13:1804:HOH:O	2.10	0.69
1:13:353:A:H8	1:13:353:A:H5'	1.57	0.69
3:2E:21:ARG:NH2	3:2E:56:ASP:OD2	2.26	0.69
8:7E:1:MET:HE3	8:7E:3:THR:HG23	1.75	0.69
26:1H:1156:A:C8	42:C8:51:LYS:HG2	2.28	0.69
26:1H:1678:G:H22	26:1H:1989:G:H22	1.40	0.69
26:1H:2784:C:O2'	30:21:37:ARG:NH1	2.25	0.69
29:11:182:LEU:N	29:11:272:ALA:HB3	2.06	0.69
34:61:88:ILE:O	34:61:121:LYS:NZ	2.26	0.69
41:B8:26:ASP:O	41:B8:49:VAL:HG12	1.92	0.69
8:72:51:VAL:HG21	8:72:60:ARG:HB2	1.75	0.69
13:4A:37:THR:HG22	13:4A:55:ARG:HE	1.56	0.69
19:AA:15:LEU:HD11	19:AA:33:THR:HB	1.72	0.69
26:14:801:G:OP2	60:14:3413:HOH:O	2.11	0.69
26:14:2250:G:C4	38:45:82:ARG:HG3	2.28	0.69
26:14:2820:A:C6	39:55:4:LEU:HD11	2.28	0.69
31:39:160:ASN:HB3	31:39:163:VAL:HB	1.74	0.69
1:13:145:G:N2	1:13:178:C:N3	2.41	0.69
1:13:859:A:H2'	1:13:860:A:H8	1.58	0.69
3:2E:91:LEU:HB3	3:2E:99:VAL:HG11	1.74	0.69
23:2K:30:G:H1	23:2K:42:C:H42	1.37	0.69
40:A8:27:SER:HA	40:A8:88:ASP:HB3	1.74	0.69
46:G8:54:LYS:HA	46:G8:56:PRO:HD3	1.75	0.69
13:4A:64:TRP:CD1	13:4A:66:LEU:HD23	2.28	0.69
24:3L:15:G:N2	24:3L:48:C:H41	1.91	0.69
26:14:2781:A:H5''	26:14:2782:G:H5'	1.75	0.69
32:49:97:ASP:H	32:49:100:TRP:HD1	1.41	0.69
48:E5:21:LEU:HD11	48:E5:41:ARG:NH1	2.08	0.69
1:13:110:C:O2'	16:7I:25:ARG:O	2.11	0.69
9:8E:13:ALA:HB2	9:8E:68:GLY:HA3	1.75	0.69
26:1H:1418:G:OP1	26:1H:1588:C:O2'	2.11	0.69
32:41:29:TRP:O	32:41:33:ARG:NH1	2.26	0.69
33:51:40:GLU:HB2	33:51:41:MET:CE	2.22	0.69

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1191:G:OP1	37:35:18:ARG:NH2	2.25	0.69
32:49:32:PRO:HB2	32:49:172:LEU:HD22	1.74	0.69
35:15:42:TRP:O	42:85:64:ARG:NH2	2.24	0.69
38:45:75:THR:HA	38:45:89:ASN:HA	1.72	0.69
55:M5:48:PHE:HA	55:M5:49:VAL:HG13	1.75	0.69
1:13:677:U:H3	1:13:713:G:H22	1.41	0.68
1:13:875:C:O2'	8:7E:14:ARG:NH1	2.26	0.68
13:4I:39:ILE:HG13	13:4I:56:LEU:HD21	1.76	0.68
26:1H:118:A:H5'	26:1H:119:A:H8	1.57	0.68
26:1H:142:G:H1'	45:F8:37:THR:HG21	1.73	0.68
35:58:34:LEU:HD21	35:58:120:LEU:HB2	1.75	0.68
12:3A:47:LYS:O	12:3A:49:ASN:N	2.25	0.68
26:14:1048:A:H8	26:14:1110:G:H22	1.40	0.68
26:14:2489:G:N2	26:14:2491:U:O4	2.24	0.68
43:95:21:ARG:NH2	43:95:65:GLY:O	2.26	0.68
43:95:85:LYS:HD2	43:95:86:GLY:H	1.57	0.68
9:8E:46:ALA:HB2	9:8E:74:ILE:HG23	1.75	0.68
26:1H:1218:C:OP2	42:C8:15:LYS:NZ	2.23	0.68
26:1H:1799:G:O2'	26:1H:1800:C:OP2	2.07	0.68
30:21:120:TRP:CE3	30:21:155:LYS:HD3	2.29	0.68
31:31:67:GLN:HE22	31:31:74:ARG:HD3	1.57	0.68
39:98:72:ASP:O	39:98:76:VAL:HG23	1.93	0.68
26:14:603:A:H8	26:14:604:G:H1'	1.58	0.68
26:14:817:C:O2'	26:14:839:U:OP1	2.09	0.68
26:14:990:A:H5'	26:14:990:A:H8	1.59	0.68
26:14:2118:U:H1'	26:14:2147:G:H21	1.56	0.68
31:39:181:LEU:HD21	31:39:186:ILE:HD11	1.75	0.68
1:13:221:C:H2'	1:13:222:U:H6	1.58	0.68
42:C8:90:VAL:HG22	43:D8:39:LEU:HB3	1.74	0.68
4:32:170:VAL:HB	4:32:176:LEU:HD11	1.74	0.68
26:14:574:C:OP2	60:14:3411:HOH:O	2.10	0.68
26:14:1203:G:H3'	26:14:1204:A:H5''	1.75	0.68
1:13:1159:U:O4'	1:13:1182:G:N2	2.26	0.68
13:4I:82:MET:HE2	13:4I:92:HIS:HB3	1.74	0.68
17:8I:76:LEU:HD11	17:8I:79:SER:HB2	1.75	0.68
26:1H:731:C:OP2	60:1H:3509:HOH:O	2.12	0.68
31:31:67:GLN:HG3	31:31:67:GLN:O	1.92	0.68
9:82:48:GLU:HA	9:82:51:ARG:HD3	1.75	0.68
26:14:127:A:H5''	26:14:128:C:C6	2.28	0.68
26:14:2468:G:H3'	26:14:2476:A:N1	2.08	0.68
30:29:35:GLN:HE22	30:29:37:ARG:NH2	1.90	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:46:LYS:HD3	46:C5:48:ALA:HB2	1.74	0.68
5:4E:144:THR:OG1	5:4E:147:ASP:OD1	2.10	0.68
26:1H:1385:G:O2'	26:1H:1396:U:H6	1.75	0.68
26:1H:2789:C:H1'	26:1H:2892:A:H2	1.58	0.68
32:41:98:ARG:NH2	52:M8:1:MET:CE	2.57	0.68
2:12:219:VAL:HA	2:12:220:ASP:OD2	1.93	0.68
26:14:273(C):C:H42	26:14:363(C):G:H1	1.41	0.68
34:69:65:ALA:O	34:69:69:LYS:N	2.25	0.68
36:25:92:GLU:HG2	36:25:113:LYS:NZ	2.08	0.68
1:13:1316:G:N2	1:13:1319:A:OP2	2.25	0.68
26:1H:1412:A:H2'	26:1H:1413:G:C8	2.29	0.68
26:1H:1900:A:H5'	26:1H:1900:A:H8	1.57	0.68
29:11:30:GLU:HB3	29:11:104:TYR:OH	1.94	0.68
1:1G:266:G:N3	1:1G:266:G:H5'	2.09	0.68
1:1G:1143:G:H2'	1:1G:1144:G:C8	2.28	0.68
1:1G:1266:G:N2	1:1G:1270:C:N3	2.42	0.68
26:14:2547:U:O2	36:25:23:ARG:NH2	2.25	0.68
28:79:44:HIS:HD2	28:79:172:HIS:HA	1.57	0.68
42:85:28:ARG:NH1	42:85:38:THR:OG1	2.25	0.68
15:6I:25:THR:HG21	15:6I:70:LEU:HB2	1.75	0.68
23:2K:48:U:O2'	23:2K:49:C:OP2	2.11	0.68
26:1H:719:C:H2'	26:1H:720:C:H6	1.56	0.68
26:1H:1257:C:H4'	31:31:83:PHE:CD1	2.28	0.68
32:41:67:LYS:HD2	52:M8:6:HIS:CD2	2.28	0.68
33:51:98:LEU:HD21	33:51:125:VAL:H	1.57	0.68
41:B8:58:ASN:O	41:B8:58:ASN:ND2	2.26	0.68
26:14:19:C:H2'	26:14:20:C:H6	1.59	0.68
26:1H:273(F):C:H3'	26:1H:274:G:H5''	1.74	0.68
27:16:8:U:O2	27:16:112:G:N1	2.20	0.68
45:F8:55:ASN:HB2	45:F8:80:ILE:HG13	1.76	0.68
9:82:5:TYR:N	9:82:87:GLN:OE1	2.27	0.68
14:5A:12:ARG:HB2	14:5A:14:PRO:HD3	1.76	0.68
20:BA:29:LYS:HG3	20:BA:71:THR:HG21	1.76	0.68
22:1L:9:A:N6	22:1L:22:G:N7	2.42	0.68
26:14:1752:C:P	41:75:115:ARG:HH22	2.17	0.68
30:29:8:LYS:HD3	30:29:192:ASN:HA	1.75	0.68
46:G8:20:TYR:CE2	46:G8:43:ASN:HA	2.28	0.68
1:1G:539:A:H2'	1:1G:540:G:C8	2.28	0.68
26:14:1486:A:H2'	26:14:1487:G:H8	1.58	0.68
26:14:2121:G:O6	26:14:2177:C:N4	2.26	0.68
28:79:53:ARG:HE	28:79:54:SER:H	1.42	0.68

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:65:33:LYS:HB3	40:65:34:HIS:CD2	2.29	0.68
1:13:1104:G:OP1	2:1E:144:ARG:NH2	2.27	0.68
26:1H:336:C:OP1	46:G8:83:THR:HB	1.94	0.68
32:41:98:ARG:NH2	52:M8:1:MET:HE3	2.10	0.68
41:B8:108:ARG:HA	41:B8:111:ARG:HE	1.59	0.68
4:32:86:LYS:HE2	4:32:86:LYS:H	1.59	0.68
9:82:53:VAL:HG13	9:82:95:LYS:NZ	2.09	0.68
13:4A:34:LEU:HD13	13:4A:41:PRO:HB3	1.75	0.68
26:14:993:G:OP1	42:85:50:ARG:NH2	2.27	0.68
26:14:994:C:OP1	42:85:53:ARG:NH2	2.26	0.68
26:14:1639:U:OP2	60:14:3412:HOH:O	2.11	0.68
26:14:2611:U:H6	26:14:2611:U:H5'	1.59	0.68
1:13:189:U:O2	17:8I:63:ARG:NH2	2.27	0.67
19:AI:29:ARG:NH1	19:AI:30:LEU:O	2.27	0.67
1:1G:1286:A:C8	1:1G:1287:A:H4'	2.30	0.67
9:82:111:ARG:HG3	9:82:113:LYS:HE3	1.76	0.67
26:14:1225:C:O2'	43:95:85:LYS:N	2.26	0.67
31:39:107:LYS:NZ	31:39:205:ARG:HD2	2.09	0.67
26:1H:10:G:N2	26:1H:2801:A:O2'	2.27	0.67
26:1H:1406:U:H2'	26:1H:1407:C:C6	2.29	0.67
26:1H:1528:A:H2	26:1H:1542:G:C2	2.12	0.67
26:1H:1980:G:O2'	26:1H:1982:C:OP2	2.10	0.67
42:C8:92:ARG:CZ	43:D8:11:GLN:H	2.07	0.67
1:1G:1204:A:OP1	14:5A:3:ARG:NH1	2.27	0.67
8:72:83:ILE:HG13	8:72:137:VAL:HG22	1.76	0.67
13:4A:49:THR:H	13:4A:52:GLU:HG3	1.58	0.67
13:4A:79:LYS:O	13:4A:82:MET:HG2	1.93	0.67
16:7A:74:LEU:HD12	16:7A:79:VAL:HG21	1.76	0.67
26:14:813:U:OP1	43:95:83:ARG:NH2	2.27	0.67
26:14:998:C:OP2	42:85:58:ARG:NH2	2.22	0.67
26:14:2656:U:H3	26:14:2665:A:H2	1.40	0.67
31:39:110:LEU:HD11	31:39:205:ARG:HH21	1.59	0.67
33:59:10:PRO:HG2	33:59:51:ARG:HG2	1.76	0.67
41:75:3:ARG:HG2	41:75:6:LEU:HB2	1.76	0.67
42:85:85:LYS:HB3	42:85:116:ALA:HB1	1.76	0.67
4:3E:98:GLU:O	4:3E:103:ASN:ND2	2.26	0.67
26:1H:2098:U:H3	26:1H:2191:G:H1	1.41	0.67
29:11:182:LEU:HB3	29:11:271:ILE:HG13	1.77	0.67
1:1G:407:G:H2'	1:1G:408:A:C8	2.30	0.67
3:22:37:GLN:O	3:22:41:GLY:N	2.27	0.67
26:14:72:U:OP1	60:14:3415:HOH:O	2.12	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2191:G:H5'	26:14:2192:G:OP2	1.95	0.67
30:29:55:ASN:O	30:29:57:LYS:NZ	2.27	0.67
34:69:37:VAL:HG12	34:69:38:LEU:H	1.60	0.67
36:25:115:VAL:HG13	36:25:121:VAL:HG21	1.75	0.67
39:55:51:LEU:HD22	39:55:66:VAL:HG23	1.76	0.67
2:1E:18:GLY:H	2:1E:42:ILE:HG13	1.60	0.67
6:5E:16:GLN:HG2	6:5E:17:SER:N	2.09	0.67
41:B8:5:ALA:HA	41:B8:8:LYS:HE2	1.75	0.67
47:H8:4:ARG:HD3	47:H8:60:GLU:OE1	1.95	0.67
1:1G:1300:G:O2'	1:1G:1301:U:O5'	2.12	0.67
2:12:49:GLU:N	2:12:49:GLU:OE2	2.26	0.67
24:3L:5:C:H2'	24:3L:6:G:C8	2.29	0.67
26:14:94:G:N3	50:G5:47:ASN:ND2	2.42	0.67
26:14:2108:C:N3	26:14:2181:G:N2	2.42	0.67
26:14:2168:G:N2	26:14:2170:A:OP2	2.27	0.67
29:19:43:ARG:HG2	29:19:49:ILE:HA	1.77	0.67
31:39:192:LEU:O	31:39:193:VAL:HG23	1.95	0.67
1:13:1149:C:OP1	9:8E:9:ARG:NH2	2.28	0.67
1:13:1290:G:O3'	7:6E:37:ASN:ND2	2.26	0.67
26:1H:958:U:OP2	38:88:14:ARG:NH1	2.28	0.67
26:1H:1859:A:N6	26:1H:1883:G:O2'	2.27	0.67
26:1H:2428:G:H21	37:78:61:ARG:HH21	1.43	0.67
26:1H:2867:G:OP2	41:B8:119:LYS:NZ	2.25	0.67
30:21:105:THR:OG1	30:21:199:ARG:NH2	2.26	0.67
39:98:51:LEU:HD22	39:98:66:VAL:HG13	1.77	0.67
41:B8:50:ILE:HD11	41:B8:102:ILE:HD13	1.75	0.67
9:82:13:ALA:HB2	9:82:68:GLY:HA3	1.77	0.67
12:3A:41:ARG:HG2	12:3A:42:THR:H	1.59	0.67
26:14:1730:U:H5''	26:14:1731:G:H22	1.60	0.67
26:14:2537:U:H2'	26:14:2538:C:C6	2.29	0.67
28:79:207:THR:O	28:79:210:ARG:NH1	2.28	0.67
29:19:182:LEU:N	29:19:272:ALA:HB3	2.10	0.67
31:39:141:ALA:HA	31:39:144:LYS:HB2	1.77	0.67
32:49:136:ARG:HG3	32:49:137:GLU:HG3	1.74	0.67
35:15:47:ALA:HB2	35:15:112:LEU:HD21	1.77	0.67
1:13:455:C:H42	1:13:477:G:N2	1.92	0.67
1:13:490:G:H5''	4:3E:151:LYS:HZ2	1.59	0.67
4:3E:19:LEU:HB3	4:3E:21:LEU:HD21	1.77	0.67
10:1I:48:THR:HA	10:1I:62:HIS:HB3	1.76	0.67
26:1H:187:G:N7	60:1H:3577:HOH:O	2.27	0.67
26:1H:2032:G:H21	30:21:146:THR:CG2	2.05	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:116:VAL:HG22	30:21:122:PHE:CG	2.30	0.67
34:61:98:ALA:HB2	34:61:111:PRO:HB3	1.76	0.67
1:1G:1055:A:O2'	3:22:156:ARG:NH1	2.26	0.67
1:1G:1360:A:OP2	14:5A:35:ARG:NH2	2.28	0.67
5:42:152:ARG:NH1	8:72:42:GLU:O	2.28	0.67
23:2L:30:G:N2	23:2L:42:C:O2	2.27	0.67
26:14:607:U:OP1	31:39:102:PRO:HA	1.94	0.67
26:14:1434:A:H61	26:14:1558:A:H62	1.42	0.67
27:1J:51:G:OP2	40:65:59:LYS:NZ	2.28	0.67
30:29:36:ARG:NH1	30:29:85:ASN:OD1	2.27	0.67
49:F5:62:VAL:HG21	49:F5:70:VAL:HG21	1.76	0.67
1:13:474:G:H5''	16:7I:81:ARG:NH2	2.08	0.67
4:3E:82:ALA:HB1	4:3E:90:GLY:HA2	1.75	0.67
26:1H:2714:G:OP1	60:1H:3529:HOH:O	2.13	0.67
41:B8:50:ILE:HG13	41:B8:99:LEU:O	1.95	0.67
12:3A:111:LYS:H	12:3A:111:LYS:HD2	1.59	0.67
26:14:1165:U:H2'	26:14:1166:C:C6	2.29	0.67
27:1J:113:C:H4'	40:65:46:VAL:HG23	1.75	0.67
1:13:1323:G:H2'	1:13:1324:A:C8	2.30	0.67
26:1H:1871:A:H2'	26:1H:1872:A:C8	2.30	0.67
26:1H:2139:C:H42	26:1H:2153:G:H1'	1.60	0.67
46:G8:10:GLY:O	46:G8:26:LYS:NZ	2.26	0.67
4:32:94:LEU:HD11	4:32:200:GLU:OE1	1.95	0.67
9:82:65:VAL:HG21	9:82:73:GLN:HB3	1.77	0.67
26:14:1817:G:OP1	29:19:88:ARG:NH2	2.27	0.67
29:19:242:ARG:HG3	29:19:246:PRO:HG3	1.76	0.67
26:1H:567:A:OP1	60:1H:3528:HOH:O	2.12	0.67
26:1H:2392:A:H2	26:1H:2424:C:H42	1.43	0.67
23:2L:24:C:H2'	23:2L:25:U:C6	2.29	0.67
26:14:590:A:H2'	26:14:591:C:C6	2.30	0.67
29:19:34:VAL:HB	29:19:64:ILE:HG23	1.77	0.67
4:3E:30:LYS:HA	4:3E:35:ARG:HE	1.60	0.67
4:3E:122:ARG:HH12	4:3E:134:ASP:HB3	1.60	0.67
11:2I:58:PRO:HD3	11:2I:89:ALA:HB1	1.75	0.67
24:3K:50:C:N3	24:3K:51:A:N6	2.43	0.67
26:1H:1429:G:O2'	26:1H:1430:C:H5'	1.95	0.67
26:1H:2836:U:H2'	26:1H:2837:G:C8	2.30	0.67
1:1G:690:G:H2'	1:1G:691:G:O4'	1.94	0.67
1:1G:857:C:H3'	1:1G:858:G:H8	1.60	0.67
19:AA:19:VAL:HG21	19:AA:44:MET:HA	1.76	0.67
26:14:708:C:H42	26:14:723:G:H1	1.41	0.67

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1579:A:H2'	26:14:1580:A:C8	2.29	0.67
8:7E:41:ARG:NH2	8:7E:123:GLU:OE1	2.22	0.66
26:1H:428:A:OP1	60:1H:3531:HOH:O	2.13	0.66
26:1H:1401:G:H2'	26:1H:1402:C:C6	2.31	0.66
43:D8:65:GLY:HA3	43:D8:91:TYR:CE1	2.30	0.66
1:1G:501:C:P	12:3A:124:LYS:HE2	2.35	0.66
5:42:148:VAL:HG21	8:72:107:LEU:HD23	1.76	0.66
26:14:780:G:H21	26:14:783:A:N6	1.92	0.66
26:14:1188:U:O2'	26:14:1189:A:H5'	1.95	0.66
1:13:1218:C:H2'	1:13:1219:U:C6	2.31	0.66
6:5E:43:LEU:HD22	6:5E:46:ARG:HD2	1.76	0.66
7:6E:28:ASN:HA	7:6E:31:MET:HE3	1.78	0.66
26:1H:1903:G:OP1	29:11:241:PRO:HB2	1.94	0.66
13:4A:96:LEU:HD22	13:4A:97:PRO:HD2	1.75	0.66
26:14:660:G:H21	37:35:12:ALA:HB2	1.59	0.66
26:14:779:U:OP1	29:19:49:ILE:HG23	1.96	0.66
26:14:1210:A:H5''	26:14:1211:U:H3'	1.77	0.66
26:14:1223:C:OP2	43:95:88:ARG:NH2	2.27	0.66
33:59:54:ARG:HB3	33:59:65:HIS:HB2	1.76	0.66
1:13:129(A):G:H4'	1:13:130:A:H5''	1.76	0.66
1:13:1182:G:H4'	1:13:1183:A:H5''	1.77	0.66
2:1E:118:LEU:HB3	2:1E:142:LEU:HD13	1.78	0.66
8:7E:51:VAL:HG11	8:7E:60:ARG:HD2	1.77	0.66
13:4I:91:ARG:HB2	13:4I:98:VAL:HG12	1.78	0.66
24:3K:3:G:H1	24:3K:70:C:H42	1.42	0.66
26:1H:719:C:H2'	26:1H:720:C:C6	2.30	0.66
26:1H:1113:U:OP1	33:51:2:SER:N	2.28	0.66
26:1H:1568:G:OP1	29:11:63:ARG:NH1	2.25	0.66
26:1H:2124:G:H5'	28:71:174:PRO:HD3	1.76	0.66
26:1H:2518:A:H5'	26:1H:2518:A:C8	2.29	0.66
35:58:96:GLU:O	35:58:98:VAL:HG12	1.95	0.66
1:1G:1356:G:H2'	1:1G:1357:A:C8	2.30	0.66
38:45:85:LYS:HG2	38:45:86:GLY:H	1.61	0.66
46:C5:42:VAL:HG13	46:C5:65:ALA:HB3	1.77	0.66
1:13:224:C:H2'	1:13:225:C:C6	2.30	0.66
26:1H:2019:A:N7	53:N8:9:LYS:NZ	2.38	0.66
52:M8:1:MET:HE3	52:M8:1:MET:H1	1.59	0.66
1:1G:619:U:O2	4:32:135:LEU:CD2	2.43	0.66
1:1G:828:A:H2'	1:1G:829:G:O4'	1.95	0.66
1:1G:1206:G:C6	1:1G:1207:G:C6	2.83	0.66
4:32:202:LEU:O	4:32:206:PHE:N	2.28	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2100:G:O6	26:14:2189:U:N3	2.28	0.66
26:14:2475:C:H5''	26:14:2476:A:H5''	1.77	0.66
36:25:1:MET:HB3	36:25:32:TYR:HB3	1.76	0.66
2:1E:54:THR:HG21	2:1E:201:ILE:HD11	1.77	0.66
15:6I:70:LEU:HG	15:6I:78:TYR:HB2	1.78	0.66
17:8I:65:ILE:HG21	17:8I:69:LYS:HE2	1.77	0.66
26:1H:805:G:OP1	60:1H:3533:HOH:O	2.14	0.66
30:21:78:LEU:C	30:21:79:ARG:HD2	2.20	0.66
41:B8:108:ARG:HA	41:B8:111:ARG:NE	2.10	0.66
1:1G:1256:A:N6	1:1G:1277:C:H3'	2.10	0.66
2:12:12:GLU:HG3	2:12:16:HIS:CG	2.30	0.66
26:14:275:G:O2'	26:14:276:A:O4'	2.11	0.66
26:14:2784:C:O2'	30:29:37:ARG:NH2	2.29	0.66
31:39:79:GLY:HA2	31:39:86:GLY:HA2	1.77	0.66
1:13:452:A:OP2	16:7I:43:LYS:NZ	2.20	0.66
2:1E:43:ASP:HB3	2:1E:46:LYS:HD2	1.78	0.66
26:1H:1433:U:O2	26:1H:1561:G:C2	2.48	0.66
32:41:5:VAL:H	52:M8:25:TYR:HE2	1.43	0.66
40:A8:28:VAL:HG11	40:A8:98:VAL:HG13	1.78	0.66
1:1G:422:C:O2'	1:1G:423:G:N2	2.28	0.66
1:1G:973:G:O3'	14:5A:41:ARG:NH2	2.27	0.66
1:1G:1025:U:H5'	1:1G:1026:G:H5'	1.78	0.66
5:42:31:LEU:HD22	5:42:45:PHE:HB3	1.78	0.66
28:79:47:LEU:HD22	28:79:48:GLY:H	1.59	0.66
1:13:680:C:H2'	1:13:681:C:H6	1.60	0.66
1:13:973:G:H3'	1:13:974:A:H5''	1.77	0.66
2:1E:80:ILE:HG21	2:1E:212:GLN:HA	1.77	0.66
19:AI:5:LEU:HD13	19:AI:10:PHE:CD2	2.31	0.66
24:3K:19:G:N2	24:3K:56:C:N3	2.40	0.66
26:1H:1970:A:OP1	60:1H:3530:HOH:O	2.13	0.66
1:1G:1432:G:N2	60:1G:1704:HOH:O	2.28	0.66
8:72:109:ILE:HG22	8:72:137:VAL:HB	1.78	0.66
27:1J:15:A:OP2	27:1J:69:G:N2	2.28	0.66
32:49:125:PHE:HB3	32:49:166:ASP:HB2	1.77	0.66
1:13:1238:A:N3	1:13:1241:G:O2'	2.28	0.66
4:3E:122:ARG:HH12	4:3E:135:LEU:HD13	1.61	0.66
26:1H:1693:U:O2'	29:11:14:ARG:NH2	2.29	0.66
26:1H:2232:U:P	49:J8:40:ARG:HH12	2.17	0.66
26:1H:2298:A:H62	26:1H:2318:G:H8	1.44	0.66
29:11:75:ILE:HD13	29:11:99:ASP:OD2	1.95	0.66
1:1G:1349:A:OP2	9:82:118:LYS:NZ	2.28	0.66

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:31:CYS:HB2	4:32:33:MET:O	1.96	0.66
26:14:271(B):G:N7	26:14:421:U:H2'	2.11	0.66
26:14:2681:C:H5	26:14:2725:A:H62	1.41	0.66
2:1E:121:LEU:HA	2:1E:124:SER:HB2	1.76	0.66
9:8E:43:ALA:HA	9:8E:74:ILE:HD13	1.78	0.66
10:1I:49:VAL:HG23	14:5I:41:ARG:HB2	1.76	0.66
26:1H:754:C:H2'	26:1H:755:C:H6	1.61	0.66
26:1H:1434:A:H61	26:1H:1558:A:N6	1.92	0.66
26:1H:1590:U:H2'	26:1H:1591:G:C8	2.30	0.66
26:1H:2246:G:H2'	26:1H:2247:A:H8	1.61	0.66
26:1H:2577:A:H5''	26:1H:2578:G:H5'	1.78	0.66
27:16:77:U:OP1	47:H8:19:ARG:NH2	2.29	0.66
31:31:67:GLN:NE2	31:31:74:ARG:HD3	2.11	0.66
50:K8:15:LYS:H	50:K8:15:LYS:HZ2	1.44	0.66
1:1G:1008:C:H42	1:1G:1021:G:H22	1.44	0.66
26:14:1169:G:N2	26:14:1180:C:N3	2.39	0.66
26:14:1871:A:H2'	26:14:1872:A:C8	2.30	0.66
26:14:2022:U:HO2'	26:14:2616:C:HO2'	1.41	0.66
26:14:2820:A:C5	39:55:4:LEU:HD11	2.31	0.66
33:59:171:LEU:HD13	33:59:172:LYS:N	2.08	0.66
34:69:59:ALA:HA	34:69:62:LYS:HB3	1.78	0.66
1:13:1263:C:H2'	1:13:1264:C:H6	1.60	0.66
4:3E:89:THR:HG22	5:4E:97:GLY:HA2	1.78	0.66
12:3I:83:VAL:HG13	12:3I:100:ILE:HG23	1.78	0.66
26:1H:2572:A:N7	30:21:145:LYS:HB2	2.11	0.66
1:1G:1095:U:P	1:1G:1108:G:H1	2.19	0.66
3:22:11:ARG:HE	3:22:180:ALA:HB3	1.61	0.66
8:72:39:LEU:HB3	8:72:45:ILE:HG12	1.78	0.66
26:14:30:G:H2'	26:14:31:C:C6	2.30	0.66
11:2I:109:VAL:HG11	18:9I:84:LYS:HE2	1.77	0.65
26:1H:547:A:N3	26:1H:548:A:N6	2.44	0.65
26:1H:2068:U:N3	26:1H:2430:A:C2	2.64	0.65
30:21:1:MET:N	30:21:83:ASP:O	2.27	0.65
1:1G:1160:G:OP1	2:12:133:LYS:NZ	2.29	0.65
20:BA:56:MET:HG2	20:BA:84:LEU:HD11	1.77	0.65
26:14:2250:G:O2'	26:14:2496:C:OP1	2.12	0.65
31:39:101:LEU:O	31:39:106:ARG:NH1	2.30	0.65
47:D5:59:LEU:HD12	47:D5:69:THR:CG2	2.25	0.65
48:E5:32:ARG:O	48:E5:34:GLY:N	2.25	0.65
1:13:682:G:H1	1:13:708:C:H42	1.43	0.65
2:1E:11:LEU:HD12	2:1E:14:GLY:H	1.61	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:41:47:LYS:HD2	32:41:81:LYS:HB2	1.78	0.65
1:1G:1124:G:HO2'	1:1G:1145:C:N4	1.93	0.65
12:3A:57:LYS:HG3	12:3A:67:THR:HG22	1.78	0.65
14:5A:21:TYR:HE1	14:5A:23:ARG:HE	1.44	0.65
22:1L:15:G:N2	22:1L:48:C:N3	2.44	0.65
26:14:34:C:O2'	26:14:35:G:H8	1.78	0.65
26:14:273(F):C:H3'	26:14:274:G:H5''	1.77	0.65
26:14:397:G:N7	60:14:3436:HOH:O	2.28	0.65
26:14:863:A:H2'	26:14:864:G:C8	2.31	0.65
29:19:10:THR:OG1	29:19:13:ARG:HG2	1.96	0.65
1:13:35:G:O2'	12:3I:118:SER:O	2.13	0.65
1:13:510:A:OP2	4:3E:49:ARG:NH2	2.25	0.65
2:1E:100:GLY:O	2:1E:104:ASN:N	2.24	0.65
2:1E:197:VAL:CG2	2:1E:200:ILE:HG12	2.26	0.65
20:BI:26:ASN:HB2	20:BI:71:THR:OG1	1.97	0.65
26:1H:1430:C:H2'	26:1H:1431:U:C6	2.31	0.65
26:1H:1828:G:OP1	60:1H:3536:HOH:O	2.14	0.65
33:51:23:ARG:HD2	33:51:25:LYS:HE2	1.76	0.65
42:C8:75:ASN:HB2	42:C8:78:THR:HG23	1.77	0.65
50:K8:64:LEU:HD22	50:K8:68:ARG:HD2	1.77	0.65
1:1G:1053:G:O2'	1:1G:1199:U:OP2	2.15	0.65
1:1G:1070:U:P	5:42:25:ARG:HH12	2.20	0.65
2:12:27:LYS:HE2	2:12:194:PRO:HD2	1.79	0.65
26:14:1131:G:H4'	35:15:82:LEU:HB2	1.77	0.65
46:C5:63:LYS:HE2	46:C5:63:LYS:HA	1.78	0.65
1:13:730:G:C5	1:13:731:G:H1'	2.30	0.65
15:6I:74:ASP:HB3	15:6I:77:ARG:HB3	1.77	0.65
26:1H:270(X):G:O6	60:1H:3527:HOH:O	2.12	0.65
26:1H:768:G:O2'	26:1H:1379:A:N6	2.28	0.65
26:1H:1000:A:N6	26:1H:1154:G:O2'	2.29	0.65
26:1H:2125:G:H1	26:1H:2171:A:H5''	1.61	0.65
32:41:66:GLN:NE2	32:41:93:THR:O	2.24	0.65
38:88:5:ARG:HH22	38:88:6:ARG:NH2	1.94	0.65
1:1G:40:C:H42	1:1G:402:G:H1	1.42	0.65
4:32:3:ARG:NE	4:32:118:ARG:HE	1.94	0.65
16:7I:71:ARG:O	16:7I:75:ARG:N	2.29	0.65
26:1H:1532:C:N3	26:1H:1539:G:N2	2.42	0.65
26:1H:1593:G:H2'	26:1H:1594:G:C8	2.31	0.65
29:11:124:PRO:HG2	29:11:129:ASN:HD21	1.62	0.65
1:1G:363:A:OP1	12:3A:33:ARG:HG3	1.96	0.65
1:1G:1209:C:O2'	1:1G:1214:C:N4	2.29	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1717:G:H1	26:14:1742:C:H42	1.43	0.65
26:14:2134:A:H8	26:14:2134:A:OP1	1.79	0.65
32:49:119:GLY:H	32:49:181:ARG:HB2	1.61	0.65
37:35:55:ARG:HG2	37:35:56:SER:H	1.60	0.65
1:13:191(D):U:H2'	1:13:191(E):G:C8	2.31	0.65
1:13:1226:C:H2'	13:4I:103:THR:HB	1.77	0.65
26:1H:1171:G:N7	26:1H:1174:A:N6	2.43	0.65
26:1H:2773:C:H5''	30:21:164:ARG:HG2	1.79	0.65
30:21:174:ASP:HB3	30:21:183:LEU:HD13	1.78	0.65
32:41:112:PRO:HB3	52:M8:37:SER:N	2.11	0.65
43:D8:47:VAL:HG13	43:D8:48:GLY:H	1.61	0.65
26:14:900:A:H2'	26:14:901:A:C8	2.32	0.65
31:39:108:LYS:O	31:39:112:MET:HG3	1.97	0.65
1:13:1:U:C2	1:13:630:G:H1'	2.31	0.65
1:13:247:G:OP2	17:8I:100:LYS:HG2	1.97	0.65
26:1H:771:G:N7	60:1H:3585:HOH:O	2.30	0.65
26:1H:2590:A:OP2	29:11:237:GLU:HB3	1.97	0.65
26:14:1314:C:OP1	60:14:3407:HOH:O	2.14	0.65
27:1J:80:U:H2'	27:1J:81:G:N2	2.11	0.65
38:45:38:GLU:HG3	38:45:127:ILE:HG22	1.79	0.65
19:AI:18:LYS:HZ1	19:AI:22:LEU:HD13	1.60	0.65
26:1H:1535:U:H5''	26:1H:1537:C:H41	1.61	0.65
26:1H:1997:G:OP2	60:1H:3537:HOH:O	2.15	0.65
26:1H:2713:A:OP2	60:1H:3534:HOH:O	2.14	0.65
28:71:182:PRO:HA	28:71:185:LEU:HG	1.79	0.65
29:11:183:ARG:NH1	29:11:269:PHE:CB	2.51	0.65
31:31:65:TRP:CZ3	31:31:72:ARG:HB3	2.32	0.65
32:41:95:ARG:HA	32:41:99:MET:HB2	1.78	0.65
42:C8:88:ILE:O	42:C8:90:VAL:N	2.30	0.65
8:72:97:VAL:HG22	8:72:129:VAL:O	1.97	0.65
24:3L:3:G:N2	24:3L:70:C:N3	2.40	0.65
42:85:90:VAL:HG22	43:95:39:LEU:HB3	1.78	0.65
55:M5:14:VAL:HG11	55:M5:22:VAL:HG13	1.77	0.65
1:13:427:U:OP1	4:3E:13:ARG:NH2	2.29	0.65
1:13:1177:G:OP1	1:13:1177:G:H4'	1.95	0.65
3:2E:73:PRO:O	3:2E:76:VAL:HG22	1.96	0.65
14:5I:2:ALA:HB3	14:5I:6:LEU:HD23	1.78	0.65
26:1H:2246:G:H2'	26:1H:2247:A:C8	2.32	0.65
1:1G:1127:G:H2'	1:1G:1128:C:H6	1.62	0.65
1:1G:1359:C:O2'	1:1G:1361:G:N7	2.30	0.65
8:72:36:LEU:HD23	8:72:39:LEU:HD22	1.79	0.65

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:108:U:H2'	26:14:109:G:C8	2.32	0.65
26:14:2745:C:H4'	33:59:145:ALA:HB3	1.78	0.65
37:35:85:LEU:HA	37:35:88:LEU:HB2	1.78	0.65
9:8E:21:PRO:HA	9:8E:58:HIS:O	1.96	0.65
16:7I:5:ARG:HE	16:7I:22:THR:HG21	1.61	0.65
26:1H:860:U:H5	26:1H:917:A:C2	2.14	0.65
26:1H:2599:G:N7	29:11:236:GLY:HA2	2.12	0.65
28:71:58:VAL:O	28:71:164:ARG:NH2	2.29	0.65
31:31:179:GLU:OE1	31:31:179:GLU:N	2.26	0.65
1:1G:32:A:H2'	1:1G:33:A:C8	2.32	0.65
2:12:189:ASP:HB3	2:12:203:GLY:O	1.97	0.65
12:3A:28:LYS:HD3	12:3A:33:ARG:NH1	2.12	0.65
19:AA:16:LEU:O	19:AA:20:LEU:HD13	1.96	0.65
26:14:1198:U:H2'	26:14:1199:U:C6	2.32	0.65
26:14:1384:A:N3	26:14:1405:U:H1'	2.11	0.65
26:14:2032:G:O6	60:14:3414:HOH:O	2.11	0.65
26:14:2134:A:H2	26:14:2159:G:H1'	1.62	0.65
6:5E:27:GLN:HA	6:5E:30:LEU:HD12	1.79	0.64
24:3K:67:C:H2'	24:3K:68:G:C8	2.31	0.64
26:1H:639:U:O2'	26:1H:640:C:H5'	1.96	0.64
26:1H:784:A:C6	29:11:229:VAL:HG11	2.31	0.64
1:1G:631:G:H4'	1:1G:632:A:H5'	1.78	0.64
4:32:13:ARG:HD2	4:32:38:TYR:O	1.96	0.64
5:42:81:GLU:N	5:42:81:GLU:OE1	2.29	0.64
26:14:1654:A:H1'	26:14:2823:A:H5'	1.78	0.64
26:14:2331:G:O3'	48:E5:43:THR:HG22	1.96	0.64
34:69:117:GLU:HG2	34:69:118:LYS:HG2	1.78	0.64
43:95:85:LYS:CG	43:95:87:HIS:H	2.08	0.64
4:3E:85:LYS:C	4:3E:88:VAL:HG23	2.22	0.64
5:4E:33:VAL:HG11	5:4E:109:ILE:HA	1.79	0.64
26:1H:2795:G:H2'	26:1H:2798:C:H5''	1.78	0.64
47:H8:9:TYR:HE1	47:H8:61:LEU:HD12	1.62	0.64
1:1G:736:C:OP1	18:9A:72:ARG:NH2	2.30	0.64
24:3L:18:G:N1	24:3L:55:U:O2'	2.18	0.64
26:14:2210:G:H3'	26:14:2211:G:C5	2.32	0.64
26:14:2439:A:H5'	26:14:2439:A:C8	2.32	0.64
29:19:71:ASP:N	29:19:71:ASP:OD1	2.27	0.64
38:45:89:ASN:ND2	38:45:89:ASN:O	2.29	0.64
45:B5:8:ILE:O	50:G5:36:ARG:NH2	2.30	0.64
26:1H:1899:G:H21	26:1H:1902:C:H5	1.44	0.64
38:88:66:ILE:O	38:88:104:PHE:N	2.29	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:92:ARG:NH1	43:D8:11:GLN:O	2.31	0.64
5:42:51:VAL:HB	5:42:52:PRO:HD3	1.78	0.64
26:14:5:A:N6	26:14:7:G:O6	2.31	0.64
26:14:873:G:H1'	38:45:29:PHE:HE2	1.60	0.64
26:14:2147:G:C5	26:14:2148:G:H1'	2.31	0.64
40:65:62:LYS:O	40:65:66:ALA:N	2.30	0.64
49:F5:82:LEU:HG	49:F5:83:GLU:H	1.62	0.64
1:13:1127:G:H2'	1:13:1128:C:C2	2.32	0.64
6:5E:33:TYR:HB2	6:5E:75:LEU:HD23	1.79	0.64
10:1I:75:ILE:HD12	10:1I:76:ASN:N	2.13	0.64
20:BI:57:ARG:NH1	20:BI:102:GLY:HA2	2.12	0.64
1:1G:413:G:H2'	1:1G:428:G:N2	2.12	0.64
22:1L:53:G:H4'	38:45:56:ARG:NH2	2.12	0.64
26:14:140:A:H8	26:14:1408:C:HO2'	1.41	0.64
26:14:993:G:N3	43:95:89:GLN:NE2	2.45	0.64
33:59:11:VAL:HG13	33:59:69:ARG:HH22	1.62	0.64
38:45:21:THR:HG21	38:45:101:ARG:HD2	1.80	0.64
43:95:79:VAL:O	43:95:80:GLN:HG2	1.97	0.64
1:13:363:A:N7	12:3I:33:ARG:NH1	2.46	0.64
1:13:377:G:H1	1:13:386:C:H42	1.46	0.64
24:3K:19:G:O2'	24:3K:57:G:N3	2.29	0.64
24:3K:35:U:H2'	24:3K:36:U:H6	1.62	0.64
26:1H:1639:U:H2'	26:1H:1640:C:H5''	1.79	0.64
26:1H:2210:G:H3'	26:1H:2211:G:C8	2.33	0.64
32:41:50:ALA:O	32:41:53:LEU:HD23	1.97	0.64
13:4A:89:GLY:HA2	13:4A:92:HIS:HB2	1.78	0.64
26:14:566:U:H5''	37:35:29:LYS:HE3	1.80	0.64
26:14:1041:C:H2'	26:14:1042:G:C8	2.32	0.64
27:1J:44:G:H5''	27:1J:45:A:OP1	1.97	0.64
30:29:110:GLY:O	60:55:201:HOH:O	2.14	0.64
37:35:95:VAL:HG23	37:35:99:LEU:HD22	1.79	0.64
43:95:22:VAL:HG22	43:95:23:GLU:H	1.61	0.64
55:M5:33:ASN:HA	55:M5:36:LYS:HD2	1.79	0.64
1:13:177:C:OP1	20:BI:65:LYS:NZ	2.27	0.64
1:13:504:C:OP1	60:13:1807:HOH:O	2.15	0.64
1:13:780:A:OP2	60:13:1806:HOH:O	2.15	0.64
1:13:1367:C:H5'	10:1I:60:ARG:NH1	2.11	0.64
8:7E:82:HIS:CE1	8:7E:138:TRP:CZ2	2.85	0.64
23:2K:54:G:H2'	23:2K:55:5MU:H6	1.63	0.64
26:1H:106:C:H2'	26:1H:107:C:H6	1.63	0.64
26:1H:730:C:OP2	60:1H:3535:HOH:O	2.14	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:68:63:VAL:HG23	36:68:64:ARG:HG2	1.80	0.64
37:78:49:ARG:HH11	55:Q8:61:LEU:CD2	1.94	0.64
46:G8:38:ILE:HD12	46:G8:64:GLU:O	1.97	0.64
1:1G:317:G:H1	1:1G:336:C:H42	1.43	0.64
3:22:14:ILE:HG23	3:22:15:THR:HG23	1.80	0.64
4:32:108:LEU:HD13	4:32:174:LEU:HD22	1.79	0.64
8:72:86:ILE:HG21	8:72:133:LEU:HD22	1.79	0.64
10:1A:33:GLN:HB3	10:1A:75:ILE:HD11	1.79	0.64
11:2A:48:ILE:HD11	11:2A:64:ALA:HA	1.80	0.64
23:2L:1:C:H2'	23:2L:2:G:H5'	1.78	0.64
26:14:2429:G:O6	37:35:61:ARG:NH2	2.30	0.64
29:19:146:GLU:HB2	29:19:189:CYS:HB3	1.78	0.64
32:49:97:ASP:H	32:49:100:TRP:CD1	2.16	0.64
38:45:18:LYS:H	38:45:98:LYS:NZ	1.96	0.64
40:65:78:LEU:HD12	40:65:107:GLU:HB3	1.79	0.64
41:75:16:ARG:NH1	41:75:83:ILE:O	2.29	0.64
1:13:576:G:OP1	60:13:1808:HOH:O	2.15	0.64
1:13:1453:G:H2'	20:BI:39:LYS:HE2	1.79	0.64
5:4E:76:ILE:HG13	5:4E:93:PRO:HG3	1.79	0.64
13:4I:34:LEU:HD23	13:4I:39:ILE:HB	1.79	0.64
17:8I:43:LEU:HB3	17:8I:69:LYS:HG3	1.78	0.64
24:3K:36:U:H2'	24:3K:37:A:H8	1.62	0.64
26:1H:210:C:OP2	54:P8:29:LYS:NZ	2.30	0.64
26:1H:287:C:H2'	26:1H:288:C:H6	1.62	0.64
26:1H:1534:G:O2'	26:1H:1535:U:O4'	2.14	0.64
28:71:43:VAL:HG22	28:71:215:THR:H	1.63	0.64
39:98:13:HIS:CD2	39:98:15:SER:HB2	2.32	0.64
43:D8:15:GLU:HG3	43:D8:16:PRO:HD2	1.78	0.64
27:1J:101:A:N7	60:1J:302:HOH:O	2.30	0.64
2:1E:163:PHE:HD1	2:1E:185:ILE:HG13	1.63	0.64
2:1E:166:ASP:C	2:1E:168:THR:H	2.06	0.64
13:4I:27:LYS:HD3	13:4I:31:LYS:HZ3	1.63	0.64
19:AI:5:LEU:HD13	19:AI:10:PHE:CG	2.33	0.64
20:BI:53:LEU:HB3	20:BI:57:ARG:HH12	1.61	0.64
26:1H:184:C:H2'	26:1H:185:U:H6	1.62	0.64
26:1H:660:G:N2	37:78:12:ALA:HA	2.12	0.64
26:1H:1035:U:H2'	26:1H:1036:G:C8	2.33	0.64
26:1H:1639:U:C2'	26:1H:1640:C:H5''	2.28	0.64
34:61:3:VAL:HG12	34:61:38:LEU:HA	1.80	0.64
34:61:117:GLU:OE1	34:61:117:GLU:N	2.28	0.64
37:78:71:VAL:HG13	37:78:72:PRO:HD3	1.79	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:98:10:LEU:O	39:98:12:ARG:N	2.31	0.64
39:98:96:ARG:HD2	39:98:98:LEU:HD11	1.80	0.64
52:M8:34:GLU:HG2	52:M8:35:VAL:N	2.12	0.64
1:1G:192:U:H4'	20:BA:57:ARG:HD3	1.78	0.64
1:1G:977:A:HO2'	1:1G:981:U:H3	1.45	0.64
5:42:9:LYS:HB3	5:42:112:LEU:HD11	1.78	0.64
22:1L:57:G:OP2	38:45:60:ARG:NH2	2.31	0.64
26:14:77:C:H42	26:14:109:G:H1	1.46	0.64
26:14:1816:G:OP2	29:19:39:LYS:NZ	2.31	0.64
26:14:2250:G:C5	38:45:82:ARG:HG3	2.33	0.64
26:14:2749:A:H4'	33:59:62:LYS:HG3	1.80	0.64
29:19:12:SER:HB2	29:19:208:LYS:HB3	1.79	0.64
1:13:652:U:O4	1:13:752:G:O2'	2.13	0.64
26:1H:29:U:H2'	26:1H:30:G:C8	2.33	0.64
38:88:139:GLU:HG3	47:H8:122:ARG:NH1	2.11	0.64
47:H8:120:ILE:HG22	47:H8:121:HIS:ND1	2.12	0.64
55:Q8:54:GLU:O	55:Q8:58:ILE:HG12	1.98	0.64
1:1G:19:C:OP1	5:42:125:SER:OG	2.16	0.64
2:12:74:LYS:HE2	2:12:169:LYS:HG3	1.78	0.64
4:32:161:ASN:O	4:32:165:MET:HB2	1.97	0.64
13:4A:51:ALA:HA	13:4A:54:VAL:HG12	1.80	0.64
26:14:1771:C:HO2'	26:14:1786:A:H8	1.46	0.64
1:13:392:G:H5'	16:7I:12:LYS:HD2	1.80	0.64
2:1E:237:ALA:O	2:1E:239:VAL:N	2.31	0.64
4:3E:85:LYS:N	4:3E:86:LYS:HA	2.13	0.64
5:4E:79:GLU:HG2	5:4E:92:LYS:HG3	1.79	0.64
20:BI:35:THR:HA	20:BI:38:LYS:HE2	1.80	0.64
22:1K:6:G:H2'	22:1K:7:U:H6	1.63	0.64
24:3K:27:G:H22	24:3K:44:U:H1'	1.61	0.64
26:1H:184:C:H2'	26:1H:185:U:C6	2.33	0.64
26:1H:1556:C:H2'	26:1H:1557:C:H6	1.62	0.64
1:1G:827:U:H3	1:1G:872:A:H62	1.46	0.64
12:3A:39:VAL:HG11	12:3A:41:ARG:CZ	2.27	0.64
26:14:270(N):G:H1'	26:14:270(P):C:O4'	1.98	0.64
26:14:1341:U:OP2	26:14:1394:U:O2'	2.14	0.64
26:14:1342:A:H2	26:14:1602:U:H3	1.46	0.64
26:14:2267:A:OP2	60:14:3416:HOH:O	2.15	0.64
31:31:66:PRO:O	31:31:67:GLN:HB3	1.98	0.63
32:41:113:ARG:NE	52:M8:34:GLU:OE1	2.29	0.63
47:H8:165:VAL:HG12	47:H8:167:PRO:HD3	1.77	0.63
1:1G:359:U:H2'	1:1G:360:A:C8	2.33	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:736:C:H2'	1:1G:737:A:C8	2.33	0.63
26:14:108:U:H2'	26:14:109:G:H8	1.63	0.63
26:14:479:A:N3	26:14:481:G:H5''	2.13	0.63
26:14:2147:G:H2'	26:14:2148:G:H4'	1.80	0.63
26:14:2311:A:H62	32:49:47:LYS:HE3	1.62	0.63
26:14:2327:A:H2'	26:14:2328:A:C8	2.33	0.63
32:49:124:SER:HB2	32:49:131:TYR:CE1	2.32	0.63
8:7E:29:SER:HB3	8:7E:32:LYS:H	1.63	0.63
24:3K:56:C:H2'	24:3K:57:G:H8	1.63	0.63
26:1H:1022:G:N2	26:1H:1142(A):A:N1	2.43	0.63
20:BA:57:ARG:HA	20:BA:60:GLU:HB2	1.80	0.63
24:3L:8:U:O2'	24:3L:48:C:O2	2.15	0.63
26:14:559:G:O2'	42:85:52:ARG:NH1	2.32	0.63
31:39:63:LYS:HE3	31:39:67:GLN:HB2	1.80	0.63
42:85:66:ASN:HD21	42:85:70:ARG:HH21	1.44	0.63
47:D5:93:ASP:HB3	47:D5:131:ARG:NH2	2.14	0.63
1:13:76:G:O4'	1:13:95:G:N2	2.30	0.63
1:13:345:C:O2'	1:13:346:G:N2	2.30	0.63
2:1E:185:ILE:HG22	2:1E:199:TYR:HB2	1.81	0.63
26:1H:836:G:H5''	26:1H:837:C:OP2	1.99	0.63
26:1H:1021:A:H8	26:1H:1021:A:H3'	1.62	0.63
26:1H:1111:A:H4'	33:51:3:ARG:HH11	1.63	0.63
26:1H:1496:A:H5'	26:1H:1497:U:OP1	1.98	0.63
26:1H:2849:U:H4'	26:1H:2868:A:C2	2.33	0.63
33:51:40:GLU:HB2	33:51:41:MET:HE2	1.78	0.63
35:58:96:GLU:C	35:58:98:VAL:H	2.05	0.63
37:78:1:MET:HE1	37:78:6:LEU:HD13	1.79	0.63
45:F8:68:ARG:NH2	45:F8:69:TYR:OH	2.16	0.63
1:1G:1305:G:H21	1:1G:1331:G:H2'	1.64	0.63
3:22:34:LEU:HD13	14:5A:25:VAL:HG21	1.80	0.63
20:BA:49:ALA:HA	20:BA:52:ALA:HB3	1.80	0.63
26:14:459:U:H5''	54:L5:40:TRP:CE2	2.33	0.63
26:14:943:U:P	37:35:36:LYS:HG3	2.38	0.63
30:29:54:GLN:N	30:29:74:PRO:HB3	2.13	0.63
34:69:81:VAL:H	34:69:143:SER:CB	2.11	0.63
34:69:117:GLU:HG2	34:69:118:LYS:N	2.14	0.63
1:13:600:C:OP1	8:7E:98:LYS:NZ	2.26	0.63
4:3E:103:ASN:OD1	4:3E:114:ARG:NH2	2.31	0.63
16:7I:20:VAL:HG21	16:7I:32:TYR:CG	2.34	0.63
26:1H:860:U:C5	26:1H:917:A:C2	2.86	0.63
26:1H:2129:C:OP1	28:71:6:ARG:NE	2.31	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:71:208:PHE:CZ	28:71:209:LEU:HG	2.32	0.63
29:11:35:LYS:N	29:11:35:LYS:HZ2	1.96	0.63
32:41:16:ARG:O	32:41:20:ILE:HG13	1.97	0.63
34:61:65:ALA:O	34:61:68:LEU:N	2.31	0.63
41:B8:6:LEU:HA	41:B8:9:LEU:HB2	1.80	0.63
1:1G:1053:G:H5''	1:1G:1054:C:H3'	1.79	0.63
4:32:70:ILE:HD11	4:32:75:PHE:HD2	1.64	0.63
26:14:819:A:OP2	26:14:1187:G:N2	2.31	0.63
26:14:1041:C:H2'	26:14:1042:G:H8	1.64	0.63
26:14:1537:C:H2'	26:14:1538:G:C8	2.33	0.63
26:14:2324:C:H5''	26:14:2325:G:H5'	1.80	0.63
26:14:2380:C:OP1	40:65:20:ARG:NH1	2.32	0.63
29:19:83:GLU:OE1	29:19:104:TYR:OH	2.15	0.63
29:19:262:ARG:NH1	29:19:263:ARG:H	1.97	0.63
47:D5:65:GLN:HE21	47:D5:67:LEU:HD21	1.64	0.63
1:13:377:G:H5'	16:7I:5:ARG:HH12	1.64	0.63
7:6E:5:ARG:CZ	7:6E:7:ALA:HA	2.29	0.63
15:6I:48:LYS:HA	15:6I:48:LYS:HE3	1.80	0.63
26:1H:1130:U:O2	30:21:149:ARG:NH2	2.27	0.63
26:1H:2794:C:N4	26:1H:2804:C:N3	2.46	0.63
1:1G:552:U:H2'	1:1G:553:A:H8	1.64	0.63
26:14:91:A:H2'	26:14:92:G:H8	1.64	0.63
26:14:1485:G:H1	26:14:1504:C:H42	1.45	0.63
30:29:60:ASN:OD1	30:29:63:LEU:HD22	1.99	0.63
38:45:37:LEU:HD21	38:45:130:LYS:HD3	1.80	0.63
42:85:74:LEU:HB2	42:85:78:THR:HB	1.79	0.63
3:2E:16:ARG:HH22	3:2E:183:ASP:HA	1.63	0.63
9:8E:24:GLY:HA2	9:8E:59:PHE:O	1.99	0.63
26:1H:1516:U:H2'	26:1H:1517:G:H8	1.64	0.63
26:1H:2400:G:H2'	26:1H:2401:U:H6	1.64	0.63
42:C8:44:ASN:ND2	43:D8:75:PHE:O	2.28	0.63
3:22:109:PRO:HB2	3:22:115:LEU:HD13	1.79	0.63
4:32:81:GLU:HB3	4:32:85:LYS:HD3	1.80	0.63
23:2L:23:G:H2'	23:2L:24:C:H6	1.63	0.63
28:79:14:VAL:HA	28:79:222:VAL:HG22	1.81	0.63
32:49:119:GLY:N	32:49:181:ARG:HB2	2.14	0.63
1:13:964:A:O2'	10:1I:55:LYS:HE3	1.99	0.63
1:13:1171:G:H2'	1:13:1172:C:H6	1.62	0.63
1:13:1502:A:H2	1:13:1505:G:N1	1.90	0.63
6:5E:41:GLU:HB2	6:5E:62:TRP:HB3	1.80	0.63
26:1H:2795:G:O6	26:1H:2803:C:N4	2.32	0.63

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:28:ALA:HB3	30:21:93:VAL:HG12	1.79	0.63
31:31:29:ASN:HB3	31:31:112:MET:HE1	1.80	0.63
31:31:130:ALA:HA	31:31:132:VAL:HG22	1.81	0.63
32:41:67:LYS:H	32:41:67:LYS:CD	2.12	0.63
1:1G:222:U:H2'	1:1G:223:U:H6	1.63	0.63
20:BA:72:LEU:HD11	20:BA:80:ARG:HH21	1.64	0.63
26:14:1332:G:N2	26:14:1609:A:O2'	2.31	0.63
26:14:1525:G:H2'	26:14:1526:G:C8	2.34	0.63
31:39:53:THR:HG23	31:39:55:GLY:H	1.63	0.63
39:55:97:VAL:HG22	39:55:114:VAL:HG22	1.80	0.63
46:C5:82:PRO:HB3	46:C5:99:CYS:HB2	1.81	0.63
47:D5:93:ASP:HB3	47:D5:131:ARG:HH21	1.63	0.63
1:13:1117:G:H5''	9:8E:104:ARG:NH1	2.14	0.63
13:4I:13:LYS:O	13:4I:44:ARG:NH1	2.32	0.63
26:1H:654(O):G:H3'	26:1H:654(P):G:O4'	1.99	0.63
26:1H:1012:U:OP1	42:C8:75:ASN:ND2	2.30	0.63
26:1H:1568:G:P	29:11:63:ARG:HH12	2.22	0.63
26:1H:2061:G:OP2	26:1H:2502:G:H5'	1.99	0.63
38:88:134:ARG:NH1	47:H8:122:ARG:HD2	2.14	0.63
4:32:20:TYR:HD1	4:32:26:CYS:HB3	1.63	0.63
12:3A:33:ARG:H	12:3A:85:ILE:HG22	1.64	0.63
14:5A:9:LYS:HA	14:5A:12:ARG:NH1	2.14	0.63
17:8A:76:LEU:HD11	17:8A:79:SER:HB3	1.81	0.63
26:14:620:G:N3	26:14:620:G:H5''	2.13	0.63
26:14:2123:G:O6	26:14:2173:A:N6	2.31	0.63
47:D5:53:ILE:HG13	47:D5:54:HIS:CD2	2.24	0.63
1:13:686:U:O2'	1:13:687:A:OP2	2.15	0.63
1:13:1494:G:N7	57:13:1730:PAR:N32	2.47	0.63
21:1F:5:ASP:HB3	21:1F:8:THR:HG22	1.79	0.63
47:H8:33:LEU:HD21	47:H8:90:VAL:HG11	1.81	0.63
48:I8:83:PRO:O	48:I8:84:LEU:HB2	1.97	0.63
7:62:115:ARG:HB2	7:62:118:VAL:HG13	1.81	0.63
23:2L:62:C:H2'	23:2L:63:C:H6	1.64	0.63
1:13:1347:G:H5''	9:8E:107:ARG:HB3	1.80	0.62
1:13:1391:U:H2'	1:13:1392:G:H8	1.64	0.62
24:3K:15:G:H1	24:3K:48:C:N4	1.97	0.62
26:1H:1228:G:OP2	42:C8:16:LYS:NZ	2.31	0.62
26:1H:1405:U:H2'	26:1H:1406:U:H6	1.59	0.62
34:61:38:LEU:HD13	34:61:40:THR:HG23	1.81	0.62
1:1G:1157:A:H2	1:1G:1180:A:C6	2.16	0.62
1:1G:1287:A:H2'	1:1G:1288:A:C8	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:270(L):U:O2	34:69:50:ARG:NH1	2.32	0.62
28:79:19:ILE:HA	28:79:223:ARG:HB3	1.81	0.62
36:25:47:ILE:HG23	36:25:48:PRO:HD2	1.81	0.62
36:25:64:ARG:HB2	36:25:83:ALA:HB3	1.81	0.62
42:85:102:GLU:HB3	42:85:105:VAL:HG22	1.81	0.62
1:13:1189:C:OP1	10:1I:51:ARG:NH2	2.31	0.62
4:3E:88:VAL:O	4:3E:89:THR:OG1	2.12	0.62
8:7E:10:LEU:HD22	8:7E:83:ILE:HD11	1.81	0.62
15:6I:39:LEU:HB3	15:6I:56:LEU:HD12	1.79	0.62
26:1H:252:G:OP2	37:78:50:ARG:NH1	2.31	0.62
2:12:61:LEU:HD12	2:12:160:ASP:HB2	1.80	0.62
7:62:93:PRO:HA	7:62:96:GLN:HB2	1.81	0.62
12:3A:39:VAL:HG11	12:3A:41:ARG:HH21	1.62	0.62
26:14:863:A:H2'	26:14:864:G:H8	1.64	0.62
26:14:2660:A:H8	26:14:2660:A:OP1	1.82	0.62
26:14:2816:C:O3'	39:55:99:LYS:NZ	2.27	0.62
29:19:206:LEU:HA	29:19:211:ARG:HE	1.63	0.62
31:39:182:ASN:ND2	31:39:185:ASP:OD2	2.28	0.62
32:49:72:ARG:HB3	32:49:85:GLY:HA2	1.79	0.62
1:13:1189:C:H5'	3:2E:5:ILE:HD13	1.81	0.62
8:7E:88:LYS:N	8:7E:91:ARG:O	2.29	0.62
26:1H:1550:C:H2'	26:1H:1551:C:H6	1.64	0.62
26:1H:2032:G:N2	30:21:146:THR:HG23	2.07	0.62
26:1H:2098:U:O2	26:1H:2191:G:N2	2.22	0.62
29:11:29:PRO:HB2	29:11:30:GLU:CA	2.21	0.62
1:1G:664:G:P	18:9A:64:ARG:HH21	2.22	0.62
1:1G:1333:A:H3'	1:1G:1334:G:H8	1.64	0.62
12:3A:66:VAL:HG11	12:3A:98:TYR:HE2	1.64	0.62
26:14:1418:G:H8	26:14:1418:G:O5'	1.82	0.62
26:14:2542:A:N3	26:14:2542:A:H5''	2.14	0.62
26:14:2647:U:H3	26:14:2673:G:H1	1.45	0.62
46:C5:82:PRO:HG3	46:C5:97:ARG:HB3	1.81	0.62
47:D5:161:VAL:HG12	47:D5:162:GLU:H	1.64	0.62
1:13:129(A):G:N2	1:13:188:U:O2'	2.32	0.62
1:13:156:G:H2'	1:13:157:G:C8	2.35	0.62
26:1H:2130:U:OP2	28:71:6:ARG:NH1	2.32	0.62
26:1H:2154:G:H2'	26:1H:2155:G:H8	1.62	0.62
34:61:110:ASP:N	34:61:110:ASP:OD1	2.27	0.62
40:A8:106:ARG:HH11	40:A8:107:GLU:HG2	1.63	0.62
1:1G:1001:G:H2'	1:1G:1002:G:C8	2.34	0.62
26:14:588:U:H1'	31:39:90:PHE:CG	2.34	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:925:C:H2'	26:14:926:A:C8	2.35	0.62
30:29:68:ALA:C	30:29:70:ALA:H	2.08	0.62
31:39:25:PRO:HB3	31:39:28:ILE:HG23	1.80	0.62
1:13:451:A:OP1	1:13:481:G:N2	2.28	0.62
1:13:1118:C:H1'	1:13:1179:A:C4	2.34	0.62
17:8I:43:LEU:HD12	17:8I:68:ARG:HG2	1.81	0.62
26:1H:389:G:H1	37:78:71:VAL:HG12	1.63	0.62
26:1H:589:C:H2'	26:1H:590:A:C8	2.34	0.62
26:1H:754:C:H2'	26:1H:755:C:C6	2.34	0.62
26:1H:2210:G:H5'	26:1H:2211:G:N7	2.14	0.62
1:1G:420:U:H1'	1:1G:424:G:N2	2.14	0.62
12:3A:27:LEU:HD23	12:3A:33:ARG:HG2	1.81	0.62
26:14:382:G:H1	26:14:392:C:H42	1.48	0.62
47:D5:71:VAL:HG12	47:D5:88:PHE:CE1	2.34	0.62
1:13:991:U:C4	1:13:1212:U:H1'	2.34	0.62
1:13:1226:C:H4'	19:AI:80:TYR:OH	1.99	0.62
4:3E:64:LEU:HD13	4:3E:198:VAL:HG21	1.80	0.62
20:BI:64:ASP:HA	20:BI:67:ALA:HB3	1.81	0.62
26:1H:111:A:H4'	50:K8:69:ARG:NH2	2.15	0.62
26:1H:270(H):C:H42	26:1H:270(R):G:H1	1.47	0.62
26:1H:566:U:OP1	37:78:29:LYS:HD2	1.99	0.62
26:1H:2224:G:H4'	26:1H:2226:C:C2	2.35	0.62
29:11:101:GLU:OE1	29:11:103:ARG:NH1	2.32	0.62
31:31:6:VAL:N	31:31:24:LEU:O	2.33	0.62
32:41:8:LYS:NZ	32:41:97:ASP:OD1	2.33	0.62
34:61:131:LYS:HB3	34:61:132:PRO:HA	1.82	0.62
44:E8:35:ILE:HG23	53:N8:28:PRO:HD2	1.80	0.62
1:1G:438:G:H4'	4:32:123:HIS:HD2	1.63	0.62
1:1G:643:C:H2'	1:1G:644:G:H8	1.64	0.62
26:14:1657:C:H2'	26:14:1658:C:C6	2.34	0.62
1:13:1178:G:OP2	9:8E:93:ARG:NH1	2.33	0.62
4:3E:191:ARG:NH1	4:3E:200:GLU:OE1	2.33	0.62
26:1H:234:C:H2'	26:1H:235:U:H6	1.64	0.62
1:1G:1213:A:N6	1:1G:1215:G:N3	2.48	0.62
26:14:460:A:OP1	54:L5:41:ARG:NH2	2.32	0.62
26:14:1945:G:H2'	26:14:1946:U:C6	2.35	0.62
26:14:2512:C:H5''	26:14:2513:G:OP2	1.99	0.62
26:14:2577:A:O4'	53:J5:3:LYS:HB2	2.00	0.62
46:C5:46:LYS:HB2	46:C5:61:ILE:H	1.65	0.62
1:13:276:G:O3'	17:8I:68:ARG:NH1	2.31	0.62
26:1H:1021:A:H3'	26:1H:1021:A:C8	2.33	0.62

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2309:A:H2'	26:1H:2310:A:O4'	2.00	0.62
26:1H:2314:C:H2'	26:1H:2315:G:H8	1.65	0.62
26:1H:2689:U:H5''	26:1H:2713:A:C2	2.35	0.62
1:1G:501:C:H2'	1:1G:502:G:H8	1.65	0.62
26:14:706:A:H2'	26:14:707:G:O4'	2.00	0.62
26:14:1292:U:H2'	26:14:1293:C:C6	2.35	0.62
26:14:1403:C:OP1	26:14:1522:G:N2	2.25	0.62
26:14:2056:G:H1	53:J5:3:LYS:HB3	1.64	0.62
31:39:5:ALA:H	31:39:19:GLU:HA	1.65	0.62
1:13:407:G:O4'	4:3E:119:GLN:NE2	2.32	0.62
1:13:1256:A:OP2	3:2E:26:LYS:NZ	2.24	0.62
19:AI:40:ILE:HD11	19:AI:62:ILE:HG23	1.82	0.62
26:1H:934:G:H2'	26:1H:935:C:H6	1.64	0.62
26:1H:1705:G:C2'	26:1H:1706:U:H5'	2.29	0.62
26:1H:2362:G:OP2	55:Q8:44:LYS:NZ	2.32	0.62
29:11:33:LEU:HD23	29:11:33:LEU:H	1.64	0.62
31:31:39:TRP:O	31:31:43:LYS:HG2	2.00	0.62
32:41:150:ASP:OD1	32:41:151:ALA:N	2.33	0.62
37:78:59:LEU:HD11	55:Q8:10:ALA:HA	1.81	0.62
1:1G:448:A:OP2	1:1G:485:G:N2	2.32	0.62
1:1G:991:U:O2	1:1G:993:G:H8	1.83	0.62
1:1G:1080:A:H5'	5:42:14:ARG:NH2	2.13	0.62
1:1G:1305:G:N2	1:1G:1331:G:H2'	2.14	0.62
8:72:64:LYS:HG2	8:72:79:VAL:HG21	1.82	0.62
10:1A:16:LEU:HD23	10:1A:68:HIS:HB3	1.82	0.62
1:13:1028:C:N4	1:13:1033:G:O6	2.32	0.62
2:1E:118:LEU:HD12	2:1E:142:LEU:HB2	1.82	0.62
41:B8:26:ASP:HB2	41:B8:91:ARG:HA	1.80	0.62
26:14:1176:G:H8	26:14:1177:A:H2	1.47	0.62
26:14:2432:A:C8	49:F5:33:LYS:HD2	2.35	0.62
35:15:39:ARG:NH2	35:15:41:ASP:OD2	2.33	0.62
37:35:71:VAL:HG13	37:35:72:PRO:HD3	1.80	0.62
49:F5:56:GLN:HE22	49:F5:84:GLY:H	1.46	0.62
1:13:1171:G:H2'	1:13:1172:C:C6	2.35	0.61
6:5E:43:LEU:HG	6:5E:43:LEU:O	1.99	0.61
29:11:79:VAL:O	29:11:113:VAL:HG23	2.00	0.61
38:88:20:ALA:HB1	38:88:99:PRO:HB2	1.80	0.61
26:14:646:A:H2'	26:14:647:G:O4'	1.99	0.61
6:5E:97:PHE:CD1	18:9I:31:LEU:HD11	2.36	0.61
26:1H:729:G:OP2	29:11:13:ARG:NH1	2.30	0.61
26:1H:1332:G:H21	26:1H:1610:A:H8	1.48	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1466:G:N2	26:1H:1547:C:N3	2.48	0.61
26:1H:1517:G:H2'	26:1H:1518:C:C6	2.35	0.61
26:1H:1533:C:H3'	26:1H:1534:G:C5'	2.30	0.61
26:1H:2164:C:H5''	26:1H:2165:G:OP2	2.00	0.61
29:11:23:GLU:HG3	29:11:82:ILE:HG21	1.82	0.61
29:11:35:LYS:HA	29:11:64:ILE:HG22	1.81	0.61
1:1G:581:G:OP1	15:6A:61:GLY:HA3	1.99	0.61
1:1G:601:C:H2'	1:1G:602:A:C8	2.34	0.61
1:1G:677:U:H3	1:1G:713:G:H22	1.48	0.61
2:12:22:LYS:NZ	2:12:35:GLU:OE1	2.30	0.61
3:22:172:ARG:HH12	3:22:174:PRO:HG3	1.65	0.61
15:6A:77:ARG:HA	15:6A:80:ALA:HB3	1.81	0.61
26:14:901:A:H5'	26:14:902:C:OP2	2.00	0.61
27:1J:44:G:H1'	27:1J:47:C:H42	1.66	0.61
41:75:62:THR:HG22	41:75:75:ILE:HG12	1.81	0.61
1:13:8:A:N7	4:3E:208:SER:OG	2.32	0.61
4:3E:89:THR:O	4:3E:92:VAL:HG23	2.00	0.61
40:A8:34:HIS:NE2	40:A8:54:LEU:HD23	2.14	0.61
43:D8:56:SER:H	43:D8:100:ARG:HB2	1.64	0.61
1:1G:1084:G:H5'	1:1G:1102:A:OP2	2.00	0.61
7:62:51:GLN:HG3	7:62:58:PRO:HD3	1.80	0.61
8:72:110:ALA:O	8:72:121:ASP:N	2.32	0.61
26:14:71:A:H5'	26:14:71:A:H8	1.64	0.61
40:65:56:LEU:HD23	40:65:58:LEU:HD11	1.82	0.61
1:13:640:A:O2'	8:7E:115:SER:HB2	2.00	0.61
1:13:864:A:H2'	1:13:865:A:C8	2.36	0.61
26:1H:1478:G:H2'	26:1H:1479:G:H8	1.64	0.61
1:1G:1369:C:H2'	1:1G:1370:G:C8	2.36	0.61
22:1L:48:C:O2'	22:1L:59:A:O4'	2.18	0.61
26:14:997:G:O2'	26:14:998:C:H5'	2.01	0.61
47:D5:28:MET:O	47:D5:35:ARG:N	2.27	0.61
1:13:1013:G:N2	1:13:1016:A:OP2	2.33	0.61
2:1E:71:VAL:HG23	2:1E:164:VAL:HA	1.83	0.61
18:9I:59:SER:OG	18:9I:60:ALA:N	2.33	0.61
26:1H:155:C:H5'	26:1H:161:U:OP2	2.00	0.61
26:1H:1214:A:OP2	60:1H:3542:HOH:O	2.16	0.61
31:31:29:ASN:H	31:31:112:MET:HE1	1.64	0.61
36:68:7:TYR:CE1	36:68:20:MET:HE3	2.34	0.61
1:1G:1139:G:H4'	1:1G:1140:C:H5'	1.82	0.61
2:12:141:GLU:O	2:12:145:LEU:HB2	2.00	0.61
13:4A:29:ARG:HB3	13:4A:64:TRP:CH2	2.36	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:9A:25:THR:HG22	18:9A:42:ARG:HH21	1.64	0.61
31:39:25:PRO:C	31:39:27:GLU:N	2.56	0.61
31:39:117:ARG:NH2	37:35:1:MET:O	2.33	0.61
48:E5:17:GLN:O	48:E5:19:LYS:NZ	2.30	0.61
1:13:1190:G:H5''	3:2E:176:HIS:NE2	2.16	0.61
13:4I:80:ARG:NH1	19:AI:65:ASN:O	2.34	0.61
15:6I:9:GLN:HA	15:6I:12:ILE:HD12	1.82	0.61
26:1H:76:C:O2'	50:K8:62:THR:HG21	2.00	0.61
26:1H:607:U:OP1	31:31:102:PRO:HA	2.01	0.61
26:1H:1401:G:H2'	26:1H:1402:C:H6	1.65	0.61
26:1H:1455:G:OP2	60:1H:3543:HOH:O	2.16	0.61
26:1H:1731:G:H2'	26:1H:1732:A:H8	1.66	0.61
34:61:5:LEU:HD13	34:61:13:GLY:O	1.99	0.61
52:M8:39:CYS:HB3	52:M8:40:HIS:HA	1.82	0.61
1:1G:196:A:OP1	20:BA:68:LYS:NZ	2.34	0.61
1:1G:533:A:O2'	1:1G:534:U:H5''	2.01	0.61
1:1G:591:U:H2'	1:1G:592:G:C8	2.36	0.61
1:1G:1352:C:H2'	1:1G:1353:G:C8	2.36	0.61
3:22:18:TRP:H	3:22:18:TRP:HE3	1.49	0.61
26:14:305:U:H2'	26:14:306:U:C6	2.35	0.61
26:14:1210:A:H5'	26:14:1212:G:C5'	2.31	0.61
26:14:1329:U:H5''	26:14:1330:C:H5	1.66	0.61
29:19:262:ARG:H	29:19:262:ARG:HH11	1.48	0.61
37:35:79:ARG:HG3	37:35:110:TYR:HB2	1.81	0.61
39:55:67:LEU:HD12	39:55:76:VAL:HG21	1.83	0.61
45:B5:67:GLY:C	45:B5:69:TYR:H	2.09	0.61
1:13:67:C:H2'	1:13:68:G:H8	1.65	0.61
2:1E:60:ASP:HB3	2:1E:64:ARG:NH2	2.09	0.61
19:AI:41:VAL:HB	19:AI:42:PRO:HA	1.83	0.61
26:1H:323:G:C8	31:31:171:PRO:HG3	2.34	0.61
26:1H:543:C:H42	26:1H:550:G:H1	1.48	0.61
26:1H:1045:A:H1'	26:1H:1047:G:C5	2.35	0.61
26:1H:1386:C:H2'	26:1H:1387:C:C6	2.35	0.61
26:1H:1535:U:H5''	26:1H:1537:C:N4	2.15	0.61
26:1H:2331:G:O3'	48:I8:43:THR:HG22	2.00	0.61
36:68:98:VAL:HG11	36:68:114:ILE:HG23	1.82	0.61
46:G8:29:GLU:HB3	46:G8:38:ILE:CG2	2.31	0.61
1:1G:401:C:H2'	1:1G:402:G:C8	2.35	0.61
13:4A:66:LEU:HD13	13:4A:67:GLU:HB2	1.83	0.61
19:AA:10:PHE:HD2	19:AA:11:VAL:HG23	1.66	0.61
26:14:1204:A:H2	26:14:1241:A:N1	1.99	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1693:U:O2'	29:19:14:ARG:NH2	2.33	0.61
26:14:2115:G:H22	26:14:2117:A:H62	1.48	0.61
26:14:2357:U:OP1	48:E5:20:ARG:NH1	2.34	0.61
27:1J:88:C:H5''	27:1J:89:G:C6	2.34	0.61
41:75:91:ARG:HD2	41:75:124:ASP:OD2	2.01	0.61
45:B5:51:VAL:H	45:B5:83:VAL:HG23	1.65	0.61
19:AI:22:LEU:HD21	19:AI:29:ARG:HG2	1.81	0.61
19:AI:51:VAL:O	19:AI:58:VAL:N	2.31	0.61
26:1H:723:G:H2'	26:1H:724:U:O4'	2.00	0.61
26:1H:1443:G:H2'	26:1H:1444:G:H8	1.65	0.61
26:1H:1870:C:H2'	26:1H:1871:A:O4'	2.01	0.61
26:1H:2396:G:H5''	49:J8:25:LYS:HE2	1.82	0.61
29:11:231:HIS:CD2	29:11:249:PRO:HA	2.35	0.61
1:1G:411:A:C5	1:1G:413:G:H1'	2.36	0.61
1:1G:667:G:H4'	15:6A:51:HIS:ND1	2.16	0.61
22:1L:24:G:H2'	22:1L:25:C:C6	2.35	0.61
26:14:26:G:OP1	44:A5:80:PRO:HB3	2.00	0.61
38:45:25:ASP:CB	38:45:102:VAL:H	2.10	0.61
1:13:659:U:H2'	1:13:660:G:C8	2.36	0.61
24:3K:15:G:H1	24:3K:48:C:H42	1.49	0.61
26:1H:732:C:OP2	60:1H:3538:HOH:O	2.15	0.61
26:1H:2133:G:O2'	26:1H:2157:G:N2	2.34	0.61
37:78:39:LYS:CB	37:78:45:LEU:HD11	2.31	0.61
10:1A:38:ILE:HG13	10:1A:71:LEU:HB3	1.82	0.61
14:5A:45:ARG:O	14:5A:49:HIS:HD2	1.84	0.61
26:14:140:A:C8	26:14:1408:C:O2'	2.53	0.61
26:14:606:U:OP2	31:39:104:LYS:CD	2.49	0.61
26:14:1568:G:P	29:19:63:ARG:HH12	2.24	0.61
26:14:1678:G:N2	26:14:1989:G:H22	1.99	0.61
27:1J:2:C:H2'	27:1J:3:C:C6	2.36	0.61
32:49:153:ARG:HD3	32:49:153:ARG:N	2.15	0.61
34:69:77:LEU:HD12	34:69:78:THR:H	1.64	0.61
36:25:7:TYR:CE1	36:25:20:MET:HB2	2.36	0.61
1:13:50:A:H1'	1:13:52:G:C8	2.35	0.61
14:5I:6:LEU:HB3	14:5I:23:ARG:NH2	2.16	0.61
26:1H:732:C:H3'	60:1H:3504:HOH:O	2.01	0.61
26:1H:2123:G:H1'	28:71:172:HIS:ND1	2.16	0.61
26:1H:2788:C:O2'	26:1H:2809:A:N3	2.32	0.61
35:58:35:ARG:HD3	35:58:37:LYS:HD2	1.83	0.61
1:1G:157:G:H1	1:1G:164:U:H3	1.47	0.61
26:14:2507:C:H5''	26:14:2573:C:N4	2.16	0.61

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:151:TYR:HB3	35:15:79:PRO:HG3	1.81	0.61
1:13:406:G:H5'	4:3E:5:ILE:HD13	1.83	0.60
1:13:737:A:H2'	1:13:738:C:H6	1.63	0.60
1:13:1080:A:H5'	5:4E:14:ARG:NH2	2.16	0.60
3:2E:5:ILE:HD11	3:2E:10:PHE:CD1	2.35	0.60
8:7E:11:THR:HG23	8:7E:14:ARG:HH12	1.66	0.60
26:1H:270(P):C:H1'	34:61:50:ARG:NH1	2.16	0.60
26:1H:2096:U:H3	26:1H:2193:G:H1	1.46	0.60
28:71:41:VAL:HG22	28:71:216:THR:HG22	1.83	0.60
26:14:287:C:H2'	26:14:288:C:H6	1.66	0.60
26:14:1567:A:O2'	29:19:63:ARG:NH2	2.34	0.60
26:14:2287:A:H62	26:14:2344:U:H3	1.49	0.60
49:F5:92:LYS:O	49:F5:94:LEU:N	2.34	0.60
2:1E:189:ASP:CG	2:1E:205:ASP:HB3	2.26	0.60
5:4E:122:GLU:HG2	5:4E:131:ILE:HD12	1.81	0.60
5:4E:128:PRO:HA	5:4E:131:ILE:HB	1.83	0.60
19:AI:21:GLU:O	19:AI:25:LYS:HB2	2.01	0.60
24:3K:5:C:O2'	24:3K:68:G:N2	2.22	0.60
26:1H:1636:C:H2'	26:1H:1637:A:C8	2.36	0.60
29:11:65:ILE:HD11	29:11:67:PHE:CZ	2.35	0.60
29:11:158:ALA:O	29:11:161:THR:OG1	2.12	0.60
18:9A:22:VAL:HG22	18:9A:23:LYS:H	1.65	0.60
26:14:259:G:H21	26:14:621:A:H8	1.48	0.60
26:14:1316:U:H2'	26:14:1317:A:C8	2.36	0.60
28:79:202:GLU:CD	28:79:203:GLY:H	2.09	0.60
44:A5:45:TYR:CZ	44:A5:49:LYS:HD2	2.37	0.60
1:13:1028(A):C:H2'	1:13:1028(B):C:C5	2.37	0.60
3:2E:79:ARG:NH2	11:2A:105:VAL:O	2.34	0.60
5:4E:41:VAL:HG13	5:4E:113:ALA:HB2	1.83	0.60
8:7E:17:THR:HG21	8:7E:80:ILE:HD11	1.83	0.60
11:2I:27:ASN:OD1	11:2I:28:THR:N	2.34	0.60
13:4I:40:ASN:HB3	13:4I:43:THR:HG23	1.82	0.60
26:1H:2492:U:H2'	26:1H:2493:U:H6	1.65	0.60
50:K8:4:SER:HB3	50:K8:6:VAL:N	2.16	0.60
4:32:18:LYS:NZ	58:32:301:SF4:S1	2.71	0.60
26:14:1754:C:H2'	26:14:1755:A:C8	2.36	0.60
31:39:7:TYR:HE2	31:39:10:PRO:HG3	1.66	0.60
35:15:15:LEU:HB2	35:15:134:ARG:HB2	1.83	0.60
40:65:15:ARG:O	40:65:19:LYS:HD3	2.02	0.60
1:13:1348:U:H3	1:13:1374:A:H2	1.48	0.60
26:1H:2228:G:OP2	29:11:263:ARG:NH2	2.35	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2584:U:H2'	26:1H:2585:U:H2'	1.82	0.60
30:21:116:VAL:HG21	30:21:122:PHE:CE2	2.36	0.60
55:Q8:38:GLY:O	55:Q8:42:ARG:HB2	2.01	0.60
6:52:7:ASN:HD21	18:9A:34:TYR:HE2	1.48	0.60
8:72:7:ALA:HB2	8:72:85:ARG:HD3	1.82	0.60
25:4L:13:A:H2'	25:4L:14:A:O4'	2.01	0.60
26:14:1169:G:H1	26:14:1180:C:H42	1.50	0.60
33:59:149:ARG:HA	33:59:162:ILE:HG21	1.83	0.60
47:D5:45:ASP:O	47:D5:49:ARG:HG2	2.01	0.60
1:13:1145:C:H4'	1:13:1146:A:H8	1.67	0.60
26:1H:730:C:OP2	60:1H:3509:HOH:O	2.16	0.60
26:1H:760:G:OP1	60:1H:3541:HOH:O	2.16	0.60
26:1H:1388:G:H2'	26:1H:1389:G:H8	1.65	0.60
26:1H:1400:G:H2'	26:1H:1401:G:C8	2.36	0.60
26:1H:2062:A:H2'	26:1H:2062:A:N3	2.14	0.60
40:A8:83:LYS:HA	40:A8:109:GLY:HA2	1.82	0.60
1:1G:130:A:C8	17:8A:63:ARG:HG3	2.36	0.60
1:1G:142:G:H2'	1:1G:143:A:H8	1.65	0.60
4:32:32:ALA:HA	4:32:35:ARG:HB3	1.81	0.60
12:3A:27:LEU:HD21	12:3A:61:THR:OG1	2.02	0.60
26:14:162:U:H4'	26:14:171:G:O4'	2.02	0.60
26:14:666:G:H5''	37:35:47:ASP:O	2.02	0.60
26:14:1451:C:H6	26:14:1451:C:H5''	1.64	0.60
27:1J:13:A:N1	27:1J:69:G:O2'	2.31	0.60
32:49:73:ALA:HB3	32:49:85:GLY:H	1.67	0.60
38:45:32:TYR:HE1	38:45:133:ARG:HG3	1.67	0.60
42:85:100:VAL:O	42:85:101:ARG:HG2	2.01	0.60
1:13:221:C:H2'	1:13:222:U:C6	2.35	0.60
1:13:659:U:H2'	1:13:660:G:H8	1.66	0.60
2:1E:8:LYS:HG2	2:1E:9:GLU:H	1.66	0.60
3:2E:88:ARG:HH11	3:2E:101:LEU:HB3	1.65	0.60
8:7E:82:HIS:HE1	8:7E:138:TRP:NE1	2.00	0.60
26:1H:2343:C:O2'	26:1H:2373:G:O2'	2.08	0.60
29:11:30:GLU:HG3	29:11:63:ARG:CZ	2.32	0.60
31:31:197:ASP:N	31:31:197:ASP:OD1	2.31	0.60
40:A8:106:ARG:HD2	40:A8:106:ARG:C	2.25	0.60
45:F8:26:TYR:CD2	45:F8:89:ILE:HD12	2.37	0.60
1:1G:1347:G:O2'	1:1G:1373:G:O6	2.16	0.60
3:22:59:ARG:HB3	3:22:64:VAL:HG23	1.83	0.60
26:14:1636:C:H2'	26:14:1637:A:C8	2.36	0.60
26:14:1786:A:H2	26:14:2606:C:H1'	1.67	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2294:C:P	40:65:89:ARG:HH22	2.23	0.60
31:39:124:LEU:HG	31:39:126:VAL:HG12	1.84	0.60
1:13:343:U:H2'	1:13:345:C:H1'	1.82	0.60
1:13:1368:G:OP1	9:8E:111:ARG:NH2	2.34	0.60
26:1H:1516:U:H2'	26:1H:1517:G:C8	2.37	0.60
26:1H:1570:A:H5'	29:11:37:LEU:CD2	2.31	0.60
43:D8:37:VAL:C	43:D8:38:LEU:HG	2.27	0.60
1:1G:762:C:H2'	1:1G:763:G:C8	2.37	0.60
1:1G:1178:G:H5''	9:82:93:ARG:HH22	1.66	0.60
13:4A:23:TYR:HB3	13:4A:67:GLU:HA	1.83	0.60
16:7A:67:THR:H	16:7A:70:ALA:HB3	1.67	0.60
30:29:35:GLN:NE2	30:29:37:ARG:CZ	2.64	0.60
1:13:601:C:H2'	1:13:602:A:C8	2.37	0.60
1:13:1060:C:O2'	10:1I:56:HIS:ND1	2.30	0.60
4:3E:15:GLU:OE1	4:3E:66:ARG:NH1	2.34	0.60
10:1I:38:ILE:HG23	10:1I:71:LEU:HB3	1.83	0.60
26:1H:1731:G:H2'	26:1H:1732:A:C8	2.37	0.60
26:1H:2106:G:H22	26:1H:2184:G:H1'	1.67	0.60
26:1H:2336:A:H61	48:I8:43:THR:HB	1.66	0.60
30:21:77:ILE:O	30:21:79:ARG:N	2.34	0.60
31:31:126:VAL:O	31:31:196:LEU:HD22	2.02	0.60
35:58:131:GLN:OE1	35:58:132:ALA:N	2.35	0.60
36:68:52:VAL:C	36:68:53:LYS:HD2	2.26	0.60
1:1G:269:C:H2'	1:1G:270:A:C8	2.37	0.60
1:1G:1320:C:N4	19:AA:36:ARG:HG3	2.17	0.60
2:12:70:PHE:N	2:12:92:TYR:HA	2.17	0.60
23:2L:24:C:H2'	23:2L:25:U:H6	1.65	0.60
26:14:309:G:H4'	46:C5:18:GLY:HA3	1.82	0.60
26:14:1639:U:OP1	60:14:3417:HOH:O	2.16	0.60
53:J5:16:ARG:HG3	53:J5:17:ASP:N	2.16	0.60
1:13:1131:G:OP1	9:8E:20:ARG:NH2	2.35	0.60
24:3K:53:G:O6	24:3K:61:C:N4	2.35	0.60
26:1H:270(R):G:H2'	26:1H:270(S):G:C8	2.37	0.60
26:1H:1042:G:H1	26:1H:1113:U:H3	1.49	0.60
26:1H:1170:G:N2	26:1H:1180:C:O2	2.35	0.60
26:1H:1857:G:O2'	26:1H:1885:A:N6	2.30	0.60
30:21:105:THR:HG22	30:21:106:GLY:H	1.66	0.60
35:58:12:ARG:HG2	35:58:13:TRP:H	1.66	0.60
55:Q8:16:ILE:HD13	55:Q8:59:LYS:HG2	1.83	0.60
1:1G:276:G:O3'	17:8A:68:ARG:NH1	2.35	0.60
7:62:148:ASN:O	7:62:149:ARG:HD3	2.00	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:72:103:VAL:HG21	8:72:110:ALA:HB2	1.83	0.60
26:14:1106:G:C8	26:14:1107:G:C8	2.90	0.60
26:14:2520:C:H41	26:14:2542:A:H62	1.49	0.60
47:D5:71:VAL:HG12	47:D5:88:PHE:HE1	1.66	0.60
51:H5:5:LYS:HG3	51:H5:36:VAL:HG22	1.84	0.60
1:13:983:A:H5''	1:13:984:C:OP2	2.02	0.60
4:3E:10:ARG:HG3	4:3E:11:LEU:N	2.15	0.60
23:2K:20:G:C2	23:2K:58:A:N3	2.70	0.60
26:1H:528:A:C2	26:1H:2043:C:H4'	2.37	0.60
31:31:178:PRO:HB3	31:31:198:ALA:HA	1.84	0.60
34:61:37:VAL:HG11	34:61:43:ASN:HD22	1.67	0.60
35:58:57:ALA:O	35:58:59:LYS:N	2.35	0.60
46:G8:87:LYS:H	46:G8:94:LYS:HG2	1.67	0.60
26:14:19:C:H2'	26:14:20:C:C6	2.37	0.60
26:14:1784:A:OP1	60:14:3418:HOH:O	2.16	0.60
40:65:41:ASP:OD2	40:65:44:LYS:HE3	2.02	0.60
44:A5:72:LYS:HE2	44:A5:108:GLY:HA3	1.84	0.60
47:D5:137:ILE:HG23	47:D5:156:LYS:H	1.66	0.60
1:13:658:G:H2'	1:13:659:U:H6	1.67	0.59
1:13:917:G:H2'	1:13:918:A:C8	2.36	0.59
1:13:1213:A:O2'	1:13:1215:G:N7	2.26	0.59
2:1E:5:ILE:HG22	2:1E:224:GLN:OE1	2.02	0.59
24:3K:65:C:H2'	24:3K:66:A:H8	1.66	0.59
26:1H:907:U:O2'	38:88:101:ARG:NH2	2.28	0.59
26:1H:2199:A:H3'	26:1H:2205:C:H6	1.66	0.59
33:51:8:PRO:HG2	33:51:69:ARG:NH2	2.17	0.59
33:51:157:TYR:CE1	33:51:171:LEU:HB3	2.37	0.59
50:K8:4:SER:HB2	50:K8:7:ARG:CG	2.24	0.59
1:1G:112:G:OP1	16:7A:27:LYS:HE3	2.01	0.59
1:1G:618:C:H5'	1:1G:619:U:H5''	1.83	0.59
1:1G:938:A:N3	1:1G:1376:U:O2'	2.28	0.59
3:22:142:MET:HE1	3:22:148:GLY:HA2	1.84	0.59
26:14:654(C):G:N1	26:14:654(R):C:O2'	2.23	0.59
26:14:870:A:H5''	38:45:6:ARG:HB3	1.84	0.59
26:14:2346:A:H5''	26:14:2383:G:H1'	1.84	0.59
26:14:2689:U:OP2	26:14:2719:G:N2	2.32	0.59
26:14:2712:U:H2'	26:14:2714:G:H5''	1.83	0.59
28:79:201:PRO:HD2	28:79:208:PHE:CZ	2.37	0.59
30:29:25:VAL:HG12	30:29:26:ILE:N	2.17	0.59
1:13:1454:G:OP1	20:BI:39:LYS:NZ	2.22	0.59
4:3E:18:LYS:HG2	58:3E:302:SF4:S1	2.42	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2I:17:GLY:O	11:2I:80:VAL:HA	2.02	0.59
26:1H:176:G:O2'	26:1H:177:G:H5'	2.02	0.59
26:1H:455:C:N3	26:1H:472:A:H2'	2.17	0.59
26:1H:848:G:H2'	26:1H:849:A:C8	2.37	0.59
26:1H:1556:C:H2'	26:1H:1557:C:C6	2.37	0.59
26:1H:1794:U:H2'	26:1H:1795:C:C6	2.37	0.59
52:M8:15:ILE:HG13	52:M8:20:ASN:OD1	2.02	0.59
1:1G:1177:G:O2'	1:1G:1178:G:O5'	2.19	0.59
2:12:71:VAL:HG12	2:12:170:GLU:HG2	1.84	0.59
2:12:158:LEU:HD23	2:12:158:LEU:H	1.67	0.59
6:52:1:MET:HE3	6:52:68:PRO:HD3	1.84	0.59
17:8A:67:LYS:HA	17:8A:70:ARG:HH12	1.66	0.59
23:2L:50:G:H1	23:2L:66:C:N4	1.95	0.59
26:14:2689:U:H5''	26:14:2713:A:C2	2.36	0.59
26:14:2849:U:O4	41:75:23:ARG:NH2	2.35	0.59
27:1J:102:G:N7	60:1J:303:HOH:O	2.32	0.59
1:13:196:A:O2'	1:13:197:A:H2'	2.03	0.59
1:13:504:C:OP1	60:13:1810:HOH:O	2.17	0.59
1:13:973:G:OP1	10:1I:57:LYS:HD3	2.02	0.59
1:13:976:G:N2	1:13:1362(A):C:OP2	2.23	0.59
15:6I:54:ARG:HA	15:6I:57:LEU:HD12	1.84	0.59
20:BI:75:ASN:O	20:BI:79:ARG:HB2	2.01	0.59
22:1K:17:U:O2'	22:1K:57:G:N2	2.34	0.59
26:1H:363(B):G:H2'	26:1H:363(C):G:H8	1.66	0.59
26:1H:747:U:O2	26:1H:2014:A:H1'	2.01	0.59
26:1H:969:U:H2'	26:1H:970:C:C6	2.37	0.59
28:71:35:ALA:HB2	28:71:218:MET:HG2	1.82	0.59
31:31:153:SER:H	31:31:190:GLU:HG3	1.65	0.59
41:B8:29:ARG:HB2	41:B8:46:GLU:HG3	1.82	0.59
43:D8:30:GLY:H	43:D8:61:VAL:HG23	1.68	0.59
1:1G:983:A:H2	1:1G:984:C:C6	2.20	0.59
1:1G:1289:A:OP2	21:1B:9:ARG:NH2	2.36	0.59
2:12:18:GLY:HA2	2:12:41:ILE:HD13	1.85	0.59
2:12:53:ARG:HB3	2:12:57:PHE:CZ	2.36	0.59
5:42:67:VAL:HG21	5:42:140:ARG:HA	1.84	0.59
30:29:112:GLY:O	30:29:159:HIS:HA	2.03	0.59
34:69:2:LYS:HA	34:69:20:ASP:HA	1.83	0.59
48:E5:46:LYS:HB2	48:E5:77:ARG:O	2.02	0.59
1:13:427:U:OP2	4:3E:36:ARG:NH2	2.31	0.59
1:13:510:A:OP2	60:13:1809:HOH:O	2.17	0.59
4:3E:122:ARG:HH22	4:3E:134:ASP:HB3	1.65	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:5E:62:TRP:HH2	6:5E:64:GLN:HG2	1.67	0.59
8:7E:82:HIS:HE1	8:7E:138:TRP:CE2	2.17	0.59
8:7E:95:VAL:HG21	8:7E:133:LEU:HD12	1.84	0.59
26:1H:265:A:C8	26:1H:266:G:H1'	2.37	0.59
26:1H:1534:G:N1	26:1H:1539:G:H1'	2.17	0.59
26:1H:2845:G:H2'	26:1H:2846:G:C8	2.38	0.59
29:11:242:ARG:HD2	29:11:242:ARG:N	2.17	0.59
32:41:139:LEU:HD13	32:41:146:TYR:HD2	1.67	0.59
33:51:3:ARG:NE	33:51:3:ARG:HA	2.18	0.59
34:61:92:VAL:HG13	34:61:120:ILE:HG23	1.84	0.59
36:68:75:SER:CB	41:B8:74:ARG:HH12	2.14	0.59
26:14:579:G:H2'	26:14:580:C:C6	2.37	0.59
26:14:2125:G:OP1	28:79:42:GLU:HB3	2.03	0.59
6:5E:97:PHE:HD1	18:9I:31:LEU:HD11	1.67	0.59
7:6E:77:SER:OG	7:6E:84:ASN:OD1	2.19	0.59
22:1K:26:A:H3'	22:1K:27:G:C8	2.37	0.59
26:1H:686:G:O5'	54:P8:11:LYS:NZ	2.36	0.59
26:1H:1053:C:H5''	26:1H:1107:G:N2	2.17	0.59
26:1H:2052:G:H4'	30:21:143:ASN:O	2.02	0.59
26:1H:2611:U:H6	26:1H:2611:U:H5'	1.67	0.59
27:16:77:U:P	47:H8:19:ARG:HH22	2.25	0.59
29:11:183:ARG:HD3	29:11:270:ILE:HG12	1.84	0.59
32:41:35:GLU:HG3	32:41:36:LYS:HB3	1.82	0.59
44:E8:27:LYS:HB3	44:E8:31:GLU:HG3	1.83	0.59
55:Q8:6:THR:HG23	55:Q8:64:TYR:HD2	1.67	0.59
8:72:114:THR:OG1	8:72:116:LYS:O	2.19	0.59
17:8A:7:THR:HG22	17:8A:58:GLU:HG2	1.84	0.59
26:14:923:C:H2'	26:14:924:C:C6	2.38	0.59
26:14:2031:A:N3	26:14:2455:G:O2'	2.33	0.59
26:14:2418:A:OP1	55:M5:29:LYS:NZ	2.35	0.59
46:C5:46:LYS:HB3	46:C5:60:PHE:HA	1.83	0.59
1:13:813:U:OP2	1:13:816:A:N6	2.34	0.59
1:13:1226:C:H4'	19:AI:80:TYR:CZ	2.38	0.59
3:2E:19:GLU:HG2	3:2E:54:ARG:HH11	1.67	0.59
22:1K:5:C:O2'	22:1K:68:G:N2	2.35	0.59
28:71:192:PHE:O	28:71:196:LEU:HB2	2.03	0.59
33:51:152:ARG:HG3	33:51:161:GLY:HA2	1.85	0.59
51:L8:9:VAL:HG21	51:L8:55:ARG:HB2	1.83	0.59
53:N8:31:VAL:HB	53:N8:42:PRO:HG3	1.83	0.59
1:1G:187:C:H2'	1:1G:188:U:O4'	2.02	0.59
1:1G:490:G:P	4:32:132:ARG:HH22	2.25	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1109:C:H2'	1:1G:1110:A:O4'	2.03	0.59
5:42:80:ILE:HG22	8:72:104:ARG:HD2	1.83	0.59
15:6A:28:GLN:HA	15:6A:31:LEU:HD22	1.84	0.59
19:AA:66:MET:N	19:AA:67:VAL:HB	2.18	0.59
20:BA:10:LEU:HD13	20:BA:12:ALA:H	1.67	0.59
26:14:70:G:H21	26:14:71:A:N6	2.00	0.59
26:14:1729:A:H2'	26:14:1731:G:N2	2.16	0.59
26:14:2134:A:C2	26:14:2159:G:H1'	2.38	0.59
26:14:2404:C:H1'	37:35:67:MET:HE1	1.85	0.59
33:59:154:PRO:HA	33:59:161:GLY:HA3	1.84	0.59
38:45:74:TYR:O	38:45:89:ASN:HB2	2.02	0.59
39:55:97:VAL:HA	39:55:113:LEU:O	2.03	0.59
40:65:23:ARG:HH12	40:65:84:GLN:HB2	1.67	0.59
42:85:92:ARG:C	42:85:94:ASN:H	2.09	0.59
1:13:390:C:O3'	16:7I:28:ARG:NH2	2.35	0.59
20:BI:30:LYS:HZ1	20:BI:80:ARG:HH12	1.49	0.59
22:1K:75:C:O2	26:1H:2507:C:O2'	2.17	0.59
26:1H:2505:G:O6	26:1H:2576:G:H2'	2.03	0.59
26:1H:2611:U:H2'	53:N8:3:LYS:HG2	1.84	0.59
29:11:106:ILE:HD11	29:11:143:HIS:CD2	2.36	0.59
40:A8:4:LEU:HD23	40:A8:8:GLU:HG3	1.85	0.59
1:1G:987:G:H1	1:1G:1218:C:H42	1.50	0.59
1:1G:1288:A:H4'	21:1B:13:ILE:HD13	1.84	0.59
26:14:161:U:H5'	26:14:171:G:H21	1.67	0.59
26:14:1754:C:P	41:75:96:ARG:HH12	2.26	0.59
26:14:2022:U:O2'	26:14:2617:C:H5'	2.03	0.59
26:14:2134:A:H61	26:14:2156:G:H2'	1.67	0.59
26:14:2320:A:H61	26:14:2333:A:H2'	1.67	0.59
49:F5:86:SER:N	49:F5:87:PRO:HD2	2.18	0.59
1:13:1446:A:OP1	1:13:1446:A:H4'	2.01	0.59
26:1H:65:C:H2'	26:1H:66:C:H6	1.67	0.59
26:1H:818:G:H4'	26:1H:838:C:O3'	2.02	0.59
1:1G:598:U:H2'	1:1G:599:C:C6	2.36	0.59
1:1G:1028(A):C:H42	1:1G:1032(B):G:H1	1.51	0.59
1:1G:1521:G:H2'	1:1G:1522:U:C6	2.38	0.59
4:32:3:ARG:HH11	4:32:118:ARG:HD3	1.66	0.59
5:42:61:TYR:HA	5:42:64:ARG:HG3	1.83	0.59
12:3A:6:THR:OG1	12:3A:9:GLN:HB2	2.01	0.59
26:14:796:C:H2'	26:14:797:C:C6	2.38	0.59
26:14:1266:G:O4'	44:A5:15:ARG:NH2	2.35	0.59
26:14:2228:G:OP2	29:19:263:ARG:NH2	2.35	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2657:A:O3'	33:59:160:LYS:NZ	2.33	0.59
50:G5:45:SER:O	50:G5:46:GLN:OE1	2.21	0.59
55:M5:22:VAL:HG12	55:M5:50:LEU:HG	1.83	0.59
55:M5:40:GLU:H	55:M5:43:GLN:HB2	1.68	0.59
1:13:1127:G:H1'	1:13:1148:U:H3	1.66	0.59
13:4I:79:LYS:O	13:4I:83:ASP:HB3	2.03	0.59
14:5I:6:LEU:HD12	14:5I:23:ARG:HH22	1.66	0.59
26:1H:957:A:N1	26:1H:2458:G:H4'	2.17	0.59
26:1H:2324:C:O2'	26:1H:2337:G:H5''	2.01	0.59
33:51:81:GLU:O	33:51:81:GLU:HG2	2.03	0.59
39:98:15:SER:OG	60:98:301:HOH:O	2.15	0.59
39:98:78:LYS:O	39:98:83:ILE:HG13	2.02	0.59
1:1G:817:C:H5'	60:1G:1727:HOH:O	2.02	0.59
4:32:173:TRP:CE3	4:32:189:PRO:HB3	2.38	0.59
7:62:20:ASP:HB3	7:62:23:VAL:HG23	1.85	0.59
26:14:140:A:H8	26:14:1408:C:O2'	1.86	0.59
26:14:2567:G:H2'	26:14:2568:C:C6	2.38	0.59
26:14:2784:C:H2'	26:14:2785:C:C6	2.38	0.59
43:95:76:LYS:HD2	43:95:80:GLN:O	2.02	0.59
49:F5:64:ALA:HA	49:F5:67:ILE:HG12	1.85	0.59
8:7E:23:SER:HA	8:7E:61:VAL:O	2.02	0.59
26:1H:265:A:H8	26:1H:266:G:H1'	1.68	0.59
26:1H:315:G:H2'	26:1H:316:C:C6	2.38	0.59
50:K8:2:LYS:O	50:K8:4:SER:HA	2.03	0.59
1:1G:122:G:H1	1:1G:239:U:H3	1.51	0.59
1:1G:1118:C:H1'	1:1G:1179:A:C4	2.37	0.59
20:BA:45:GLN:HA	20:BA:91:LEU:HB3	1.83	0.59
26:14:1187:G:H8	26:14:1187:G:O5'	1.85	0.59
26:14:1316:U:H2'	26:14:1317:A:H8	1.67	0.59
26:14:1332:G:H21	26:14:1610:A:H8	1.50	0.59
26:14:1519:G:H2'	26:14:1520:U:O4'	2.03	0.59
26:14:1794:U:H2'	26:14:1795:C:H6	1.68	0.59
26:14:2134:A:N6	26:14:2156:G:H2'	2.16	0.59
31:39:5:ALA:HB1	31:39:125:LEU:HD21	1.84	0.59
46:C5:50:ARG:HB3	46:C5:53:PRO:CD	2.30	0.59
1:13:156:G:H2'	1:13:157:G:H8	1.67	0.58
1:13:589:C:H42	1:13:650:G:H1	1.51	0.58
1:13:1122:U:O4	1:13:1123:A:N6	2.36	0.58
1:13:1510:U:H2'	1:13:1511:G:C8	2.37	0.58
8:7E:87:SER:HB2	8:7E:93:VAL:CB	2.33	0.58
26:1H:1590:U:H2'	26:1H:1591:G:H8	1.66	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2855:C:H2'	26:1H:2856:C:H6	1.68	0.58
28:71:215:THR:HG23	28:71:219:GLY:O	2.03	0.58
38:88:2:LEU:H	38:88:2:LEU:HD12	1.67	0.58
43:D8:10:LYS:NZ	43:D8:23:GLU:OE1	2.36	0.58
47:H8:48:PHE:HE1	47:H8:71:VAL:HG11	1.68	0.58
52:M8:1:MET:HE3	52:M8:1:MET:N	2.17	0.58
9:82:33:PHE:O	9:82:37:PHE:HB2	2.02	0.58
24:3L:27:G:H21	24:3L:45:G:H22	1.50	0.58
26:14:71:A:H4'	26:14:72:U:H5''	1.84	0.58
26:14:2734:A:H2'	26:14:2735:G:O4'	2.03	0.58
30:29:51:PHE:CG	30:29:52:LEU:N	2.71	0.58
31:39:28:ILE:HA	31:39:112:MET:HB3	1.84	0.58
38:45:22:LYS:N	38:45:23:GLY:HA3	2.18	0.58
38:45:37:LEU:HD11	38:45:130:LYS:HB3	1.85	0.58
38:45:66:ILE:HG22	38:45:104:PHE:CE1	2.37	0.58
1:13:652:U:O2'	1:13:653:A:O5'	2.19	0.58
1:13:1128:C:H2'	1:13:1139:G:O6	2.01	0.58
9:8E:55:ALA:HB1	9:8E:59:PHE:HD2	1.67	0.58
11:2I:19:ALA:O	11:2I:82:VAL:HA	2.02	0.58
26:1H:389:G:N1	37:78:71:VAL:HG12	2.17	0.58
26:1H:2801:A:H2'	26:1H:2802:G:O4'	2.04	0.58
37:78:31:ALA:O	37:78:32:THR:HB	2.02	0.58
2:12:136:VAL:O	2:12:139:LYS:HG2	2.03	0.58
2:12:188:ALA:HB1	2:12:192:SER:HB2	1.85	0.58
4:32:172:PRO:HB2	4:32:187:ARG:NH2	2.19	0.58
7:62:65:ALA:HB1	7:62:127:ALA:HB3	1.85	0.58
7:62:68:ASN:ND2	7:62:127:ALA:O	2.26	0.58
11:2A:20:TYR:CE2	11:2A:83:ILE:HD12	2.38	0.58
20:BA:29:LYS:O	20:BA:33:ILE:HG12	2.03	0.58
26:14:2176:A:H1'	28:79:44:HIS:CE1	2.37	0.58
28:79:49:ILE:HD13	28:79:56:GLN:HB3	1.84	0.58
30:29:147:PRO:HB2	30:29:149:ARG:HG2	1.85	0.58
35:15:13:TRP:O	35:15:135:PRO:HD2	2.02	0.58
1:13:223:U:H2'	1:13:224:C:H6	1.67	0.58
1:13:266:G:H5''	1:13:267:C:C5	2.38	0.58
16:7I:5:ARG:HE	16:7I:22:THR:CG2	2.16	0.58
33:51:8:PRO:HG2	33:51:69:ARG:HH21	1.68	0.58
1:1G:841:U:H4'	1:1G:842:C:C6	2.38	0.58
1:1G:1309:G:OP2	13:4A:99:ARG:NH2	2.35	0.58
7:62:148:ASN:O	7:62:148:ASN:ND2	2.36	0.58
9:82:9:ARG:HA	9:82:13:ALA:O	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AA:41:VAL:HG22	19:AA:44:MET:HG3	1.86	0.58
26:14:270(N):G:O2'	26:14:270(O):U:H5'	2.03	0.58
26:14:459:U:H2'	26:14:460:A:H8	1.66	0.58
26:14:1005:C:H2'	26:14:1006:C:C6	2.39	0.58
26:14:1198:U:H2'	26:14:1199:U:H6	1.68	0.58
26:14:1427:A:H4'	26:14:1428:C:O4'	2.02	0.58
26:14:2176:A:HO2'	28:79:44:HIS:CE1	2.17	0.58
26:14:2720:U:H3	26:14:2873:A:H2	1.51	0.58
30:29:101:ARG:CZ	30:29:171:GLU:HB2	2.33	0.58
40:65:10:ARG:HA	40:65:13:ARG:HE	1.68	0.58
40:65:23:ARG:NH1	40:65:85:VAL:O	2.36	0.58
47:D5:131:ARG:C	47:D5:132:ASN:HD22	2.10	0.58
53:J5:47:PRO:HA	53:J5:56:LYS:NZ	2.18	0.58
5:4E:91:LEU:HD13	5:4E:120:THR:HG22	1.85	0.58
19:AI:8:GLY:HA2	19:AI:10:PHE:CE1	2.38	0.58
26:1H:55:G:H2'	26:1H:56:A:C8	2.37	0.58
26:1H:987:G:OP2	60:1H:3547:HOH:O	2.17	0.58
26:1H:1299:G:OP1	60:1H:3540:HOH:O	2.16	0.58
26:1H:1332:G:H5'	26:1H:1332:G:C8	2.38	0.58
26:1H:2068:U:N3	26:1H:2430:A:H2	2.02	0.58
26:1H:2636:U:H2'	26:1H:2637:U:C6	2.38	0.58
31:31:29:ASN:H	31:31:112:MET:CE	2.16	0.58
47:H8:9:TYR:CE1	47:H8:61:LEU:HD12	2.38	0.58
1:1G:1298:C:H4'	1:1G:1299:A:C4	2.38	0.58
11:2A:32:ILE:HD13	11:2A:72:ALA:HB2	1.86	0.58
26:14:329:G:H1	46:C5:19:LYS:HZ1	1.50	0.58
26:14:2103:C:O2	26:14:2186:G:N2	2.33	0.58
32:49:37:VAL:HG23	32:49:99:MET:HE3	1.85	0.58
34:69:133:HIS:CG	34:69:134:PRO:HD3	2.38	0.58
49:F5:51:VAL:HG23	49:F5:58:ILE:HB	1.85	0.58
55:M5:14:VAL:CG1	55:M5:22:VAL:HG13	2.33	0.58
55:M5:14:VAL:HG21	55:M5:58:ILE:HD11	1.84	0.58
1:13:279:A:H4'	1:13:280:C:H5''	1.85	0.58
1:13:859:A:H2'	1:13:860:A:C8	2.37	0.58
1:13:1189:C:OP1	14:5I:58:LYS:NZ	2.36	0.58
13:4I:3:ARG:CB	13:4I:9:ILE:HG12	2.29	0.58
20:BI:29:LYS:O	20:BI:33:ILE:HD12	2.04	0.58
26:1H:664:C:OP1	37:78:18:ARG:NH2	2.37	0.58
26:1H:739:G:OP1	60:1H:3544:HOH:O	2.16	0.58
26:1H:1194:A:H8	26:1H:1194:A:OP2	1.86	0.58
26:1H:2016:U:O2	53:N8:7:PRO:HG2	2.03	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2864:G:H2'	26:1H:2865:U:C6	2.39	0.58
42:C8:69:CYS:HG	42:C8:79:PHE:HD2	1.50	0.58
2:12:136:VAL:HA	2:12:139:LYS:HD3	1.86	0.58
13:4A:16:ASP:OD1	13:4A:16:ASP:N	2.36	0.58
17:8A:99:SER:OG	17:8A:100:LYS:N	2.37	0.58
20:BA:35:THR:HG22	20:BA:36:LEU:HD23	1.86	0.58
24:3L:3:G:H2'	24:3L:4:U:O4'	2.04	0.58
26:14:730:C:C2'	26:14:731:C:H5'	2.33	0.58
26:14:1149:G:H2'	26:14:1150:C:C6	2.39	0.58
26:14:1835:G:H5'	26:14:1836:C:OP2	2.04	0.58
26:14:2233:U:H2'	26:14:2234:G:C8	2.38	0.58
27:1J:3:C:H2'	27:1J:4:C:C6	2.39	0.58
29:19:3:VAL:HG13	29:19:17:THR:HB	1.86	0.58
1:13:592:G:H2'	1:13:593:G:H8	1.69	0.58
1:13:1011:G:H1	1:13:1018:C:H42	1.50	0.58
4:3E:29:PRO:HA	4:3E:34:GLU:HG3	1.85	0.58
16:7I:20:VAL:HG22	16:7I:32:TYR:HB2	1.86	0.58
26:1H:118:A:H5'	26:1H:119:A:C8	2.38	0.58
26:1H:928:G:OP2	60:1H:3546:HOH:O	2.17	0.58
26:1H:1417:C:H2'	26:1H:1418:G:O4'	2.04	0.58
28:71:64:LEU:HD23	28:71:65:PRO:HD2	1.86	0.58
30:21:176:ILE:HB	30:21:181:LEU:HB2	1.85	0.58
37:78:83:VAL:O	37:78:114:ILE:HD12	2.04	0.58
51:L8:8:LEU:HD22	51:L8:31:LEU:CD2	2.33	0.58
52:M8:16:CYS:SG	52:M8:36:CYS:HB2	2.44	0.58
1:1G:67:C:H2'	1:1G:68:G:C8	2.38	0.58
22:1L:34:U8U:H5''	22:1L:34:U8U:H6	1.86	0.58
22:1L:73:A:O3'	22:1L:74:C:H4'	2.02	0.58
26:14:870:A:OP1	38:45:6:ARG:NH1	2.37	0.58
26:14:2016:U:O2	53:J5:7:PRO:HG2	2.02	0.58
26:14:2675:A:H4'	36:25:29:ASN:ND2	2.17	0.58
26:14:2872:G:C4	26:14:2873:A:C2	2.92	0.58
29:19:242:ARG:HH11	29:19:242:ARG:H	1.52	0.58
30:29:52:LEU:HD23	30:29:76:ARG:HD3	1.85	0.58
31:39:83:PHE:O	31:39:84:VAL:HB	2.03	0.58
50:G5:32:LEU:HB2	50:G5:53:LEU:HD13	1.84	0.58
1:13:1003:G:H2'	1:13:1004:A:H4'	1.84	0.58
4:3E:167:GLY:HA2	29:19:135:PHE:CZ	2.38	0.58
26:1H:1021:A:C8	26:1H:1022:G:H5''	2.38	0.58
26:1H:2572:A:N7	30:21:144:ARG:HG2	2.19	0.58
30:21:31:CYS:HB2	30:21:91:VAL:HG23	1.86	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1532:U:O2'	1:1G:1534:A:OP2	2.20	0.58
2:12:30:ARG:NH2	2:12:194:PRO:HB2	2.19	0.58
9:82:20:ARG:HH12	9:82:22:GLY:HA3	1.68	0.58
26:14:673:C:O2'	31:39:82:ILE:HD11	2.03	0.58
26:14:686:G:N2	26:14:788:A:H61	2.02	0.58
26:14:910:A:H62	38:45:12:GLN:HA	1.68	0.58
26:14:1689:A:H62	26:14:1698:A:H2	1.51	0.58
26:14:2107:C:O2	26:14:2182:G:N2	2.30	0.58
26:14:2675:A:H4'	36:25:29:ASN:HD21	1.68	0.58
29:19:118:VAL:HG22	29:19:119:ALA:H	1.69	0.58
30:29:33:VAL:HG13	30:29:47:VAL:HG13	1.85	0.58
43:95:35:LEU:C	43:95:37:VAL:HG13	2.28	0.58
1:13:957:U:N3	1:13:960:U:OP2	2.33	0.58
2:1E:11:LEU:O	2:1E:14:GLY:N	2.36	0.58
26:1H:274:G:N2	26:1H:276:A:H61	2.02	0.58
26:1H:587:C:OP2	37:78:21:ARG:NH2	2.37	0.58
36:68:120:GLU:OE1	41:B8:67:SER:OG	2.22	0.58
54:P8:29:LYS:HA	54:P8:32:LYS:HB2	1.86	0.58
1:1G:954:G:O6	13:4A:104:ARG:NH1	2.37	0.58
9:82:24:GLY:HA2	9:82:59:PHE:O	2.03	0.58
23:2L:54:G:H2'	23:2L:55:5MU:H6	1.68	0.58
26:14:90:U:H1'	26:14:91:A:C8	2.39	0.58
26:14:2180:U:H2'	26:14:2181:G:O4'	2.04	0.58
29:19:72:LYS:HB3	29:19:75:ILE:HD12	1.86	0.58
30:29:150:VAL:HG13	30:29:154:LYS:HD2	1.84	0.58
30:29:197:ILE:HD11	30:29:199:ARG:HE	1.68	0.58
47:D5:65:GLN:NE2	47:D5:67:LEU:HD21	2.18	0.58
54:L5:35:ARG:HG3	54:L5:42:LEU:HD11	1.85	0.58
1:13:362:G:H4'	12:3I:33:ARG:HH21	1.69	0.58
1:13:664:G:N2	1:13:741:G:H1	1.97	0.58
4:3E:13:ARG:NH2	4:3E:36:ARG:HH21	2.02	0.58
6:5E:23:LYS:HA	6:5E:26:ILE:HD12	1.86	0.58
9:8E:95:LYS:O	9:8E:96:LEU:HD12	2.04	0.58
18:9I:38:GLU:HA	18:9I:41:LYS:NZ	2.14	0.58
18:9I:66:LEU:O	18:9I:70:ILE:HG13	2.04	0.58
26:1H:1257:C:H4'	31:31:83:PHE:CE1	2.39	0.58
26:1H:1359:A:H2'	26:1H:1360:A:H5'	1.84	0.58
26:1H:2108:C:H2'	26:1H:2109:U:O4'	2.04	0.58
37:78:106:LEU:HD23	37:78:112:LEU:HD23	1.86	0.58
40:A8:24:LEU:HB2	40:A8:85:VAL:HG12	1.86	0.58
52:M8:9:LEU:HD12	52:M8:27:THR:N	2.18	0.58

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:10:A:H2'	1:1G:11:G:H8	1.69	0.58
1:1G:422:C:HO2'	1:1G:423:G:N2	2.01	0.58
1:1G:512:U:H2'	1:1G:513:C:C6	2.39	0.58
1:1G:1125:U:H2'	1:1G:1126:U:C5	2.37	0.58
2:12:187:LEU:HD21	2:12:203:GLY:HA3	1.86	0.58
26:14:498:G:H21	46:C5:47:LYS:NZ	2.01	0.58
26:14:581:C:H2'	26:14:582:G:C8	2.38	0.58
26:14:1332:G:H5'	26:14:1332:G:H8	1.68	0.58
26:14:1757:U:N3	26:14:1762:A:H2	1.91	0.58
26:14:2009:G:N3	39:55:107:ASP:HA	2.18	0.58
26:14:2197:U:H1'	26:14:2198:A:C8	2.38	0.58
26:14:2875:C:O2'	41:75:3:ARG:NE	2.36	0.58
29:19:267:SER:C	29:19:269:PHE:H	2.12	0.58
7:6E:27:ILE:HD12	7:6E:40:ALA:HA	1.86	0.58
19:AI:39:THR:HG22	19:AI:40:ILE:H	1.69	0.58
26:1H:1520:U:H2'	26:1H:1521:G:O4'	2.04	0.58
28:71:59:ARG:HG3	28:71:164:ARG:HB2	1.86	0.58
46:G8:82:PRO:HG3	46:G8:97:ARG:HB3	1.86	0.58
54:P8:24:THR:HG23	54:P8:27:GLY:H	1.67	0.58
1:1G:280:C:H3'	1:1G:281:G:H5'	1.86	0.58
3:22:190:ARG:NE	3:22:190:ARG:HA	2.19	0.58
12:3A:84:LEU:HB2	12:3A:104:VAL:HG21	1.85	0.58
13:4A:108:ARG:HD3	13:4A:114:ARG:HG2	1.85	0.58
20:BA:25:ARG:HG3	20:BA:29:LYS:HE3	1.85	0.58
26:14:5:A:H2'	26:14:6:A:H5''	1.85	0.58
38:45:34:LEU:HD11	38:45:129:THR:HB	1.86	0.58
50:G5:14:ARG:O	50:G5:15:LYS:HG2	2.04	0.58
1:13:168:G:H21	1:13:169:C:H41	1.52	0.57
1:13:625:G:H4'	16:7I:16:HIS:CG	2.39	0.57
1:13:1429:C:H2'	1:13:1430:C:H6	1.69	0.57
5:4E:15:ARG:NH1	25:4K:25:A:H5'	2.18	0.57
24:3K:15:G:N1	24:3K:48:C:N4	2.52	0.57
26:1H:125:G:H5'	26:1H:125:G:C8	2.39	0.57
26:1H:817:C:H4'	26:1H:932:G:C5	2.39	0.57
26:1H:2120:G:N2	26:1H:2178:C:O2	2.28	0.57
26:1H:2680:C:H5'	30:21:189:PRO:HA	1.86	0.57
26:1H:2863:C:H2'	26:1H:2864:G:H8	1.69	0.57
27:16:44:G:H1'	27:16:47:C:N4	2.19	0.57
29:11:146:GLU:HG3	29:11:190:TYR:N	2.19	0.57
2:12:93:VAL:HG22	2:12:152:PHE:HB2	1.85	0.57
14:5A:4:LYS:O	14:5A:7:ILE:HG12	2.04	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:829:A:N7	26:14:2248:C:H5'	2.19	0.57
26:14:2129:C:H5''	26:14:2130:U:H5	1.69	0.57
26:14:2306:C:H2'	26:14:2307:G:N2	2.17	0.57
29:19:66:ASP:HB3	29:19:105:ILE:HD12	1.85	0.57
30:29:70:ALA:HB1	30:29:72:VAL:HG22	1.86	0.57
33:59:53:GLU:OE1	33:59:53:GLU:HA	2.04	0.57
1:13:67:C:H2'	1:13:68:G:C8	2.39	0.57
1:13:317:G:H1	1:13:336:C:H42	1.52	0.57
1:13:658:G:H2'	1:13:659:U:C6	2.40	0.57
1:13:1139:G:N2	1:13:1143:G:H1	2.02	0.57
1:13:1318:A:H5''	19:AI:10:PHE:CD2	2.39	0.57
2:1E:17:PHE:HA	2:1E:42:ILE:HB	1.85	0.57
3:2E:122:GLU:O	3:2E:126:ARG:HG2	2.04	0.57
21:1F:6:ARG:HH11	21:1F:15:ARG:NE	2.01	0.57
30:21:128:SER:OG	30:21:129:HIS:N	2.37	0.57
34:61:14:ASP:N	34:61:17:GLN:OE1	2.37	0.57
34:61:47:LEU:O	34:61:51:ILE:N	2.30	0.57
1:1G:977:A:O2'	1:1G:981:U:N3	2.33	0.57
1:1G:1015:A:O2'	14:5A:15:LYS:NZ	2.33	0.57
26:14:2788:C:O2'	26:14:2809:A:N3	2.36	0.57
27:1J:15:A:H1'	27:1J:109:G:N7	2.18	0.57
28:79:50:ASP:O	28:79:56:GLN:NE2	2.36	0.57
29:19:23:GLU:HG2	29:19:24:ILE:HD12	1.84	0.57
1:13:680:C:H2'	1:13:681:C:C6	2.39	0.57
1:13:1030:C:H2'	1:13:1031:G:H8	1.66	0.57
5:4E:126:ARG:HG3	5:4E:126:ARG:HH11	1.69	0.57
12:3I:110:VAL:CG2	12:3I:120:TYR:HB3	2.34	0.57
24:3K:48:C:H41	24:3K:59:A:N6	2.02	0.57
26:1H:86:C:H4'	26:1H:104:U:H1'	1.86	0.57
26:1H:307:G:H21	26:1H:330:A:H62	1.52	0.57
26:1H:1331:A:O2'	26:1H:1332:G:H8	1.87	0.57
26:1H:1336:A:OP2	45:F8:64:LYS:NZ	2.37	0.57
26:1H:1340:U:H4'	26:1H:1341:U:OP2	2.03	0.57
26:1H:2119:A:C2	26:1H:2171:A:H2	2.22	0.57
26:1H:2379:G:O2'	40:A8:17:ARG:NH1	2.36	0.57
28:71:212:VAL:HB	28:71:226:PRO:HD3	1.86	0.57
32:41:98:ARG:HH21	52:M8:1:MET:CE	2.16	0.57
38:88:78:PRO:O	38:88:79:LEU:HB3	2.05	0.57
43:D8:36:PRO:C	43:D8:38:LEU:H	2.11	0.57
1:1G:538:G:H5''	12:3A:114:LYS:HB2	1.85	0.57
4:32:190:ASP:HB3	4:32:192:GLU:HG2	1.87	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:806:C:O2	26:14:2444:G:O2'	2.21	0.57
26:14:1298:C:H5''	26:14:1299:G:OP2	2.04	0.57
26:14:1999:C:H4'	26:14:2723:C:O2	2.04	0.57
31:39:158:THR:C	31:39:178:PRO:HD3	2.30	0.57
34:69:75:LEU:HD22	34:69:77:LEU:N	2.18	0.57
45:B5:5:TYR:HB3	50:G5:33:MET:HB2	1.87	0.57
1:13:870:U:H4'	1:13:871:U:O5'	2.04	0.57
1:13:1285:A:O5'	1:13:1285:A:H8	1.87	0.57
8:7E:100:ILE:O	8:7E:125:ARG:NH2	2.37	0.57
17:8I:70:ARG:C	17:8I:71:PHE:HD1	2.12	0.57
18:9I:38:GLU:OE1	18:9I:41:LYS:NZ	2.32	0.57
20:BI:89:ARG:HH21	20:BI:104:LEU:HD11	1.69	0.57
23:2K:63:C:H2'	23:2K:64:G:H8	1.69	0.57
26:1H:459:U:H2'	26:1H:460:A:H8	1.70	0.57
26:1H:991:C:H2'	26:1H:992:C:H6	1.69	0.57
28:7I:194:ARG:NH2	28:7I:226:PRO:O	2.32	0.57
37:78:126:VAL:HG12	37:78:147:LEU:HD11	1.87	0.57
41:B8:99:LEU:HB2	41:B8:102:ILE:HD11	1.86	0.57
50:K8:2:LYS:O	50:K8:5:GLU:HB2	2.04	0.57
1:1G:411:A:H62	1:1G:413:G:H21	1.53	0.57
2:12:58:ILE:HD12	2:12:219:VAL:HG22	1.86	0.57
7:62:51:GLN:HB2	7:62:58:PRO:HG3	1.85	0.57
13:4A:55:ARG:O	13:4A:59:TYR:N	2.37	0.57
26:14:96:G:H4'	50:G5:48:HIS:CD2	2.38	0.57
26:14:581:C:H2'	26:14:582:G:H8	1.68	0.57
34:69:143:SER:O	34:69:144:VAL:HG22	2.04	0.57
38:45:35:VAL:HG12	38:45:36:ALA:H	1.69	0.57
5:4E:8:GLU:HG3	5:4E:34:VAL:HG22	1.86	0.57
11:2I:46:GLY:HA2	11:2I:50:TYR:O	2.05	0.57
1:1G:519:C:H2'	1:1G:520:A:O4'	2.03	0.57
1:1G:1448:C:H42	1:1G:1455:G:H1	1.51	0.57
3:22:26:LYS:HG3	3:22:27:LYS:H	1.68	0.57
6:52:96:PRO:HB3	18:9A:30:ASP:CG	2.28	0.57
26:14:459:U:H4'	54:L5:40:TRP:CZ3	2.38	0.57
26:14:981:A:N1	26:14:2027:G:O2'	2.34	0.57
26:14:1430:C:H2'	26:14:1431:U:C6	2.39	0.57
26:14:1653:G:C6	39:55:9:LYS:HB2	2.39	0.57
26:14:2064:C:H2'	26:14:2065:C:C6	2.40	0.57
34:69:142:VAL:HG12	34:69:143:SER:H	1.68	0.57
1:13:572:A:H5'	1:13:573:A:OP2	2.03	0.57
24:3K:58:A:O2'	24:3K:59:A:OP1	2.21	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:732:C:OP2	60:1H:3545:HOH:O	2.17	0.57
26:1H:870:A:OP1	38:88:6:ARG:NH2	2.37	0.57
26:1H:2212:A:H1'	26:1H:2215:G:C4	2.40	0.57
26:1H:2518:A:H5'	26:1H:2518:A:H8	1.67	0.57
26:1H:2721:A:H2'	26:1H:2722:G:O4'	2.05	0.57
1:1G:198:G:OP2	1:1G:198:G:H8	1.88	0.57
2:12:119:GLU:HG3	2:12:142:LEU:HD11	1.85	0.57
7:62:11:GLN:NE2	7:62:12:LEU:O	2.38	0.57
26:14:1558:A:O2'	26:14:1559:G:OP2	2.20	0.57
48:E5:72:ARG:HE	48:E5:75:LEU:HD12	1.69	0.57
1:13:1044:A:C5	1:13:1045:C:H1'	2.40	0.57
26:1H:298:G:OP2	46:G8:84:ARG:HD2	2.04	0.57
26:1H:833:U:O2	37:78:55:ARG:NH2	2.34	0.57
26:1H:1193:G:H2'	26:1H:1194:A:C8	2.40	0.57
26:1H:1565:C:O2'	26:1H:1567:A:N7	2.33	0.57
44:E8:12:ILE:HG12	44:E8:13:SER:H	1.70	0.57
1:1G:620:C:C4	4:32:135:LEU:HD11	2.39	0.57
1:1G:929:G:H1	1:1G:1388:C:H42	1.52	0.57
1:1G:1292:U:H2'	1:1G:1293:G:C8	2.40	0.57
26:14:303:U:H2'	26:14:304:G:C8	2.40	0.57
26:14:582:G:H2'	26:14:583:G:H8	1.69	0.57
26:14:860:U:H1'	26:14:2268:A:H5'	1.87	0.57
30:29:179:GLU:HB3	30:29:181:LEU:HD13	1.87	0.57
32:49:20:ILE:HG23	32:49:25:TYR:HB2	1.86	0.57
33:59:69:ARG:O	33:59:72:ILE:HG12	2.05	0.57
42:85:97:ASP:OD2	42:85:101:ARG:NH2	2.37	0.57
1:13:222:U:H2'	1:13:223:U:C6	2.40	0.57
1:13:324:G:N1	1:13:327:A:OP2	2.36	0.57
1:13:490:G:H5''	4:3E:151:LYS:NZ	2.19	0.57
1:13:598:U:H4'	8:7E:94:TYR:CD2	2.40	0.57
8:7E:104:ARG:HG3	8:7E:138:TRP:CD1	2.39	0.57
10:1I:75:ILE:HD12	10:1I:76:ASN:HD22	1.68	0.57
26:1H:355:G:H2'	26:1H:356:G:C8	2.40	0.57
26:1H:1863:G:H2'	26:1H:1864:U:O4'	2.05	0.57
26:1H:2074:U:H2'	26:1H:2075:U:C6	2.39	0.57
32:41:105:LYS:HE2	52:M8:26:SER:HB2	1.86	0.57
1:1G:620:C:N3	4:32:135:LEU:HD11	2.20	0.57
1:1G:1251:A:H2'	1:1G:1252:A:C8	2.39	0.57
2:12:71:VAL:HB	2:12:165:VAL:HG22	1.87	0.57
23:2L:54:G:O2'	23:2L:55:5MU:H5''	2.05	0.57
26:14:879:G:H2'	26:14:897:C:N4	2.20	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1963:U:H5''	26:14:1963:U:O2	2.05	0.57
26:14:2173:A:O2'	26:14:2174:C:OP1	2.20	0.57
29:19:108:PRO:HB3	29:19:143:HIS:HE1	1.70	0.57
30:29:12:THR:O	30:29:23:VAL:HG22	2.05	0.57
32:49:41:GLN:NE2	32:49:154:GLY:O	2.29	0.57
34:69:77:LEU:HD12	34:69:78:THR:N	2.20	0.57
38:45:134:ARG:O	38:45:134:ARG:HG2	2.04	0.57
39:55:45:ARG:HA	39:55:95:THR:HG21	1.87	0.57
39:55:57:ARG:NE	39:55:59:ASP:OD2	2.27	0.57
1:13:186(E):C:H42	1:13:191(B):G:H1	1.52	0.57
1:13:209:U:H4'	1:13:216:G:C2	2.40	0.57
1:13:407:G:H2'	1:13:408:A:C8	2.40	0.57
1:13:612:C:O2	1:13:629:G:N2	2.37	0.57
1:13:804:U:H5''	1:13:805:C:OP2	2.05	0.57
2:1E:82:ARG:NE	2:1E:92:TYR:OH	2.38	0.57
3:2E:162:GLN:HG2	25:4K:24:A:H3'	1.87	0.57
4:3E:90:GLY:O	4:3E:93:PHE:HB2	2.05	0.57
24:3K:35:U:H2'	24:3K:36:U:C6	2.39	0.57
26:1H:1021:A:H8	26:1H:1022:G:H5''	1.69	0.57
26:1H:1512:G:H2'	26:1H:1513:C:C6	2.40	0.57
26:1H:2175:C:H1'	28:71:217:THR:O	2.05	0.57
26:1H:2695:C:H2'	26:1H:2696:U:H6	1.70	0.57
30:21:119:ARG:NH2	30:21:157:ALA:C	2.63	0.57
34:61:33:ARG:HB3	34:61:35:LEU:HD13	1.86	0.57
35:58:73:THR:HB	35:58:82:LEU:HD11	1.86	0.57
37:78:37:GLY:HA2	37:78:41:ARG:NH2	2.20	0.57
37:78:116:GLY:H	37:78:134:ALA:HB2	1.70	0.57
47:H8:60:GLU:O	47:H8:61:LEU:CD2	2.53	0.57
49:J8:83:GLU:HG3	49:J8:85:LEU:HB2	1.85	0.57
20:BA:63:ILE:HG21	20:BA:81:LYS:HG3	1.86	0.57
26:14:270(F):U:H2'	26:14:270(G):C:C6	2.40	0.57
26:14:649:G:H2'	26:14:650:C:C6	2.40	0.57
30:29:23:VAL:HA	30:29:184:VAL:O	2.05	0.57
31:39:133:ASN:HA	31:39:162:LEU:HD23	1.86	0.57
33:59:67:LEU:O	33:59:71:LEU:HD13	2.05	0.57
3:2E:64:VAL:HG12	3:2E:66:VAL:HG23	1.87	0.57
20:BI:75:ASN:O	20:BI:79:ARG:N	2.36	0.57
26:1H:958:U:OP1	38:88:74:TYR:OH	2.17	0.57
26:1H:2031:A:C6	26:1H:2498:C:H1'	2.39	0.57
30:21:35:GLN:HG3	30:21:36:ARG:N	2.20	0.57
2:12:30:ARG:HH22	2:12:194:PRO:HB2	1.70	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:61:LYS:HB2	4:32:203:VAL:HG13	1.85	0.57
26:14:918:A:O2'	27:1J:96:G:N2	2.38	0.57
26:14:960:A:H61	38:45:82:ARG:NH2	2.02	0.57
26:14:1434:A:H2'	26:14:1435:G:C8	2.40	0.57
26:14:2086:U:P	29:19:262:ARG:NH2	2.77	0.57
29:19:39:LYS:O	29:19:40:THR:HG23	2.04	0.57
1:13:127:G:HO2'	17:8I:2:PRO:N	2.03	0.56
1:13:524:G:H2'	1:13:525:C:C6	2.40	0.56
1:13:1446:A:O2'	41:B8:125:ARG:NH2	2.38	0.56
4:3E:31:CYS:HB3	4:3E:34:GLU:CG	2.34	0.56
9:8E:50:LEU:HD23	9:8E:85:LEU:HD11	1.86	0.56
13:4I:82:MET:O	13:4I:84:ILE:N	2.37	0.56
18:9I:47:THR:HA	18:9I:83:GLU:HB2	1.87	0.56
22:1K:41:A:H2'	22:1K:42:A:C8	2.40	0.56
26:1H:1400:G:H2'	26:1H:1401:G:H8	1.70	0.56
26:1H:1538:G:H2'	26:1H:1539:G:H8	1.70	0.56
26:1H:2125:G:N1	26:1H:2171:A:H5''	2.20	0.56
26:1H:2199:A:H3'	26:1H:2205:C:C6	2.39	0.56
35:58:47:ALA:HB2	35:58:112:LEU:CD1	2.33	0.56
35:58:56:ASN:N	35:58:125:GLY:O	2.21	0.56
47:H8:60:GLU:O	47:H8:61:LEU:HD23	2.05	0.56
1:1G:449:C:O2'	16:7A:43:LYS:HE2	2.05	0.56
4:32:196:LEU:HD13	4:32:198:VAL:HG22	1.87	0.56
5:42:41:VAL:O	5:42:67:VAL:N	2.36	0.56
7:62:92:SER:HB2	7:62:94:ARG:HE	1.70	0.56
19:AA:11:VAL:HG12	19:AA:12:ASP:N	2.20	0.56
22:1L:53:G:H2'	22:1L:54:5MU:H5''	1.87	0.56
22:1L:58:A:O2'	22:1L:60:U:OP2	2.22	0.56
26:14:458:G:O2'	54:L5:39:ARG:HD3	2.05	0.56
26:14:753:C:H2'	26:14:754:C:H6	1.70	0.56
26:14:1729:A:H2'	26:14:1731:G:H22	1.70	0.56
26:14:2012:G:OP1	44:A5:11:ARG:NH2	2.38	0.56
26:14:2016:U:H1'	53:J5:6:VAL:HG13	1.87	0.56
26:14:2178:C:O2'	28:79:168:THR:OG1	2.22	0.56
26:14:2308:G:O2'	26:14:2309:A:OP1	2.21	0.56
29:19:6:PHE:HE1	29:19:18:VAL:HG23	1.70	0.56
29:19:25:THR:HG23	29:19:81:ALA:HB1	1.86	0.56
1:13:111:G:H8	1:13:111:G:O5'	1.88	0.56
3:2E:8:ILE:HG23	3:2E:16:ARG:HG2	1.85	0.56
22:1K:6:G:H2'	22:1K:7:U:C6	2.39	0.56
26:1H:1930:G:N2	26:1H:1968:G:H2'	2.20	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2661:G:OP2	26:1H:2661:G:H8	1.87	0.56
27:16:43:C:P	32:41:67:LYS:HZ1	2.28	0.56
29:11:242:ARG:HD2	29:11:242:ARG:H	1.70	0.56
46:G8:39:VAL:O	46:G8:42:VAL:HG22	2.04	0.56
46:G8:89:PHE:HD1	46:G8:90:LEU:N	2.02	0.56
1:1G:630:G:H5'	1:1G:631:G:OP2	2.05	0.56
11:2A:109:VAL:HG12	18:9A:86:VAL:HG22	1.86	0.56
20:BA:49:ALA:O	20:BA:100:ILE:HG21	2.04	0.56
26:14:27:G:N2	26:14:512:G:H1'	2.20	0.56
26:14:648:G:O2'	26:14:2351:G:OP1	2.15	0.56
35:15:35:ARG:HB3	35:15:42:TRP:CZ3	2.40	0.56
1:13:54:C:N4	1:13:353:A:OP2	2.34	0.56
1:13:376:G:H5''	16:7I:5:ARG:HB2	1.87	0.56
1:13:491:G:H2'	1:13:492:G:O4'	2.05	0.56
1:13:649:G:H2'	1:13:650:G:C8	2.40	0.56
1:13:1264:C:H2'	1:13:1265:G:C8	2.41	0.56
2:1E:18:GLY:H	2:1E:42:ILE:CG1	2.18	0.56
2:1E:59:GLU:HB2	2:1E:221:LEU:HD21	1.88	0.56
26:1H:1429:G:H2'	26:1H:1430:C:C6	2.40	0.56
26:1H:2213:U:H1'	49:J8:52:ARG:CZ	2.35	0.56
26:1H:2314:C:H2'	26:1H:2315:G:C8	2.40	0.56
26:1H:2345:G:H4'	26:1H:2346:A:O5'	2.05	0.56
30:21:131:ALA:HB1	30:21:135:HIS:CE1	2.41	0.56
31:31:127:GLU:HA	31:31:127:GLU:OE2	2.06	0.56
38:88:111:GLU:OE1	38:88:133:ARG:NH1	2.38	0.56
39:98:103:ARG:HA	39:98:111:LEU:HD12	1.87	0.56
45:F8:65:ARG:HG3	45:F8:67:GLY:H	1.70	0.56
46:G8:9:LYS:O	46:G8:27:VAL:HG13	2.05	0.56
46:G8:94:LYS:HG3	46:G8:95:LYS:N	2.21	0.56
50:K8:28:LYS:HE3	50:K8:56:GLN:NE2	2.20	0.56
1:1G:518:C:H5''	1:1G:519:C:C6	2.40	0.56
2:12:22:LYS:HG2	2:12:40:HIS:HE2	1.69	0.56
7:62:115:ARG:O	7:62:118:VAL:HG22	2.06	0.56
8:72:33:GLU:HB3	8:72:59:LEU:HD13	1.86	0.56
26:14:205:G:HO2'	26:14:206:U:P	2.29	0.56
26:14:1106:G:H3'	26:14:1107:G:C8	2.39	0.56
26:14:1593:G:H2'	26:14:1594:G:C8	2.40	0.56
26:14:2165:G:H3'	26:14:2166:G:H5'	1.87	0.56
26:14:2611:U:C4	53:J5:3:LYS:HG3	2.40	0.56
38:45:54:MET:O	38:45:57:HIS:N	2.35	0.56
39:55:78:LYS:O	39:55:83:ILE:HG13	2.05	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:95:44:LYS:O	43:95:46:VAL:N	2.24	0.56
53:J5:41:PRO:HG2	53:J5:44:THR:HG21	1.87	0.56
1:13:243:A:H5''	1:13:244:U:H3'	1.87	0.56
1:13:1374:A:O2'	7:6E:28:ASN:HB3	2.05	0.56
1:13:1429:C:H2'	1:13:1430:C:C6	2.40	0.56
26:1H:568:U:O4	60:1H:3539:HOH:O	2.16	0.56
26:1H:674:G:C1'	31:31:74:ARG:HD2	2.35	0.56
26:1H:1339:G:H21	26:1H:1603:A:H1'	1.70	0.56
38:88:12:GLN:HE21	38:88:73:PRO:HD2	1.68	0.56
46:G8:76:CYS:SG	46:G8:97:ARG:HG3	2.45	0.56
46:G8:83:THR:OG1	46:G8:84:ARG:N	2.37	0.56
1:1G:1136:U:H5''	1:1G:1137:C:C5	2.41	0.56
4:32:81:GLU:N	4:32:81:GLU:OE2	2.39	0.56
8:72:30:ARG:HG3	8:72:31:PHE:N	2.19	0.56
9:82:27:THR:HG22	9:82:32:ASP:CA	2.35	0.56
10:1A:78:ASN:O	10:1A:81:THR:OG1	2.21	0.56
23:2L:41:C:H2'	23:2L:42:C:C6	2.41	0.56
26:14:1425:G:H2'	26:14:1426:G:C8	2.40	0.56
26:14:2572:A:C4	30:29:144:ARG:NH1	2.71	0.56
27:1J:2:C:H2'	27:1J:3:C:H6	1.70	0.56
40:65:88:ASP:OD1	40:65:90:GLY:N	2.36	0.56
46:C5:86:ARG:NE	46:C5:87:LYS:O	2.38	0.56
1:13:793:U:H5'	1:13:794:A:H5''	1.88	0.56
1:13:995:C:O2	14:5I:4:LYS:NZ	2.36	0.56
4:3E:70:ILE:HG23	4:3E:75:PHE:HB2	1.88	0.56
9:8E:128:ARG:HH21	23:2K:36:A:P	2.29	0.56
12:3I:36:VAL:O	12:3I:59:ARG:N	2.39	0.56
13:4I:5:ALA:HB2	13:4I:61:GLU:HG2	1.87	0.56
24:3K:71:C:O2	26:1H:1851:U:O2'	2.18	0.56
26:1H:827:U:H5'	26:1H:828:U:O5'	2.04	0.56
26:1H:1177:A:OP1	26:1H:1178:C:N4	2.38	0.56
26:1H:1786:A:H2	26:1H:2606:C:H1'	1.71	0.56
26:1H:2122:U:O2'	28:71:172:HIS:HE1	1.88	0.56
26:1H:2870:C:H5''	39:98:65:LEU:HD21	1.87	0.56
29:11:183:ARG:HD2	29:11:269:PHE:O	2.05	0.56
33:51:158:HIS:HA	33:51:170:ARG:HE	1.70	0.56
1:1G:114:U:H2'	1:1G:115:G:C8	2.40	0.56
1:1G:393:A:OP2	16:7A:12:LYS:HD3	2.06	0.56
4:32:93:PHE:O	4:32:96:LEU:HB2	2.05	0.56
13:4A:49:THR:N	13:4A:52:GLU:HG3	2.20	0.56
13:4A:81:LEU:HD23	13:4A:88:ARG:HH21	1.70	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:154:G:O6	26:14:172:C:N4	2.38	0.56
29:19:108:PRO:HB3	29:19:143:HIS:CE1	2.40	0.56
51:H5:6:VAL:O	51:H5:34:GLU:HA	2.06	0.56
1:13:976:G:H5'	1:13:1358:U:O2'	2.06	0.56
1:13:1329:A:N7	21:1F:7:ARG:NH2	2.53	0.56
17:8I:55:ASP:HA	17:8I:79:SER:HA	1.88	0.56
24:3K:49:G:H1'	24:3K:66:A:C2	2.41	0.56
26:1H:674:G:O2'	31:31:74:ARG:HD3	2.06	0.56
26:1H:1334:G:H2'	26:1H:1335:U:H6	1.70	0.56
26:1H:2091:U:OP2	26:1H:2092:U:O2'	2.20	0.56
43:D8:36:PRO:O	43:D8:38:LEU:N	2.39	0.56
47:H8:53:ILE:HG22	47:H8:71:VAL:HG13	1.86	0.56
54:P8:15:THR:HG22	54:P8:16:HIS:CE1	2.41	0.56
1:1G:439:A:OP2	1:1G:493:G:N1	2.38	0.56
1:1G:1137:C:H1'	1:1G:1138:G:C2	2.40	0.56
7:62:26:PHE:CD1	7:62:30:ILE:HD11	2.40	0.56
8:72:87:SER:HB2	8:72:93:VAL:HB	1.88	0.56
9:82:26:VAL:HG22	9:82:60:ASP:HB3	1.85	0.56
24:3L:2:G:H2'	24:3L:3:G:C8	2.40	0.56
26:14:617:G:OP1	31:39:40:GLN:HG3	2.05	0.56
26:14:2887:U:H2'	26:14:2888:C:H6	1.70	0.56
1:13:128:G:H5'	17:8I:2:PRO:O	2.06	0.56
19:AI:36:ARG:NH1	19:AI:52:TYR:O	2.39	0.56
26:1H:234:C:H2'	26:1H:235:U:C6	2.40	0.56
33:51:40:GLU:O	33:51:41:MET:HE3	2.06	0.56
51:L8:7:LYS:HG3	51:L8:34:GLU:HG2	1.87	0.56
1:1G:502:G:OP1	12:3A:118:SER:HB3	2.06	0.56
12:3A:86:ARG:HB2	12:3A:101:VAL:HG23	1.88	0.56
26:14:39:C:O2	31:39:46:ARG:NH2	2.39	0.56
26:14:1727:U:H3	26:14:1733:G:H1	1.53	0.56
26:14:1794:U:H2'	26:14:1795:C:C6	2.41	0.56
26:14:2306:C:H3'	26:14:2307:G:H5''	1.87	0.56
26:14:2343:C:O2'	26:14:2373:G:O2'	2.22	0.56
27:1J:93:C:H2'	27:1J:94:C:H6	1.69	0.56
38:45:25:ASP:HB3	38:45:102:VAL:N	2.14	0.56
41:75:11:GLU:O	41:75:13:ARG:HD3	2.05	0.56
1:13:1031:G:H2'	1:13:1032:A:H5'	1.87	0.56
1:13:1080:A:H5'	5:4E:14:ARG:HH21	1.70	0.56
4:3E:84:LYS:C	4:3E:86:LYS:HA	2.31	0.56
13:4I:15:VAL:HG23	13:4I:43:THR:O	2.06	0.56
15:6I:3:ILE:HD12	15:6I:34:LEU:HD23	1.87	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:65:C:H2'	26:1H:66:C:C6	2.40	0.56
26:1H:192:C:O2'	26:1H:802:A:N3	2.39	0.56
33:51:103:LEU:HD22	33:51:131:VAL:HG21	1.88	0.56
35:58:35:ARG:O	35:58:42:TRP:HZ3	1.89	0.56
37:78:35:HIS:HA	60:78:302:HOH:O	2.05	0.56
40:A8:21:THR:HG23	40:A8:23:ARG:H	1.70	0.56
46:G8:34:LYS:HG3	46:G8:34:LYS:O	2.05	0.56
1:1G:777:A:H2	11:2A:119:CYS:HB3	1.71	0.56
1:1G:1325:C:H2'	1:1G:1326:C:C6	2.41	0.56
14:5A:29:ARG:HG3	14:5A:31:ARG:N	2.19	0.56
16:7A:43:LYS:HA	16:7A:48:TRP:CE3	2.41	0.56
17:8A:40:LYS:HD3	17:8A:42:TYR:CZ	2.41	0.56
26:14:1599:C:H2'	26:14:1600:C:H6	1.71	0.56
26:14:2129:C:H3'	26:14:2130:U:C6	2.41	0.56
26:14:2146:C:H4'	26:14:2147:G:C8	2.41	0.56
26:14:2275:C:C6	26:14:2275:C:H5'	2.41	0.56
26:14:2683:C:OP1	41:75:53:ARG:NH2	2.39	0.56
26:14:2887:U:H2'	26:14:2888:C:C6	2.41	0.56
40:65:49:VAL:HG11	40:65:77:ALA:HB2	1.87	0.56
1:13:601:C:H2'	1:13:602:A:H8	1.71	0.56
1:13:1442:G:C6	1:13:1446:A:C6	2.93	0.56
26:1H:106:C:H2'	26:1H:107:C:C6	2.40	0.56
26:1H:503:A:H4'	26:1H:504:U:H5''	1.87	0.56
26:1H:1021:A:H61	26:1H:1142(A):A:H61	1.54	0.56
35:58:1:MET:HE2	43:D8:13:ARG:H	1.71	0.56
36:68:17:ARG:HG3	36:68:47:ILE:HD13	1.88	0.56
43:D8:19:LYS:HE2	43:D8:95:LEU:HD23	1.87	0.56
49:J8:65:SER:OG	49:J8:66:HIS:ND1	2.36	0.56
2:12:73:THR:HG21	2:12:97:TRP:H	1.71	0.56
8:72:36:LEU:HD23	8:72:39:LEU:CD2	2.36	0.56
9:82:20:ARG:NH1	9:82:22:GLY:HA3	2.21	0.56
10:1A:17:ASP:O	10:1A:21:GLN:HB2	2.06	0.56
26:14:2129:C:OP1	28:79:6:ARG:NE	2.39	0.56
26:14:2819:G:H2'	26:14:2821:A:N7	2.21	0.56
29:19:70:TRP:CD1	29:19:70:TRP:C	2.83	0.56
30:29:11:MET:SD	30:29:24:THR:HG22	2.46	0.56
31:39:130:ALA:H	31:39:142:TRP:CD1	2.24	0.56
1:13:346:G:C8	41:B8:41:ARG:NH1	2.74	0.56
1:13:1060:C:OP1	14:5I:45:ARG:NH2	2.39	0.56
4:3E:82:ALA:HB2	4:3E:92:VAL:HB	1.88	0.56
26:1H:1338:G:H2'	26:1H:1339:G:H8	1.71	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2019:A:H4'	42:C8:34:LYS:HD2	1.87	0.56
28:71:59:ARG:HB2	28:71:164:ARG:HE	1.71	0.56
47:H8:4:ARG:NH1	47:H8:60:GLU:OE1	2.36	0.56
1:1G:9:G:H5''	5:42:126:ARG:HD2	1.88	0.56
1:1G:78:G:H2'	1:1G:79:G:O4'	2.06	0.56
1:1G:376:G:O3'	16:7A:5:ARG:NH1	2.31	0.56
1:1G:862:C:H1'	1:1G:874:G:H5''	1.88	0.56
1:1G:1294:G:H2'	1:1G:1295:G:H8	1.69	0.56
18:9A:53:ARG:CG	18:9A:63:GLN:HE21	2.14	0.56
26:14:1180:C:H2'	26:14:1181:C:C6	2.41	0.56
26:14:1784:A:H5''	60:14:3418:HOH:O	2.06	0.56
33:59:60:ARG:O	33:59:63:SER:OG	2.24	0.56
36:25:63:VAL:HG12	36:25:106:LEU:HD11	1.87	0.56
43:95:83:ARG:HD2	43:95:83:ARG:N	2.21	0.56
1:13:1423:G:P	36:68:49:ARG:HH22	2.29	0.55
2:1E:28:PHE:CE1	2:1E:31:TYR:HD2	2.24	0.55
4:3E:57:ARG:HG2	4:3E:202:LEU:HD22	1.88	0.55
23:2K:54:G:H2'	23:2K:55:5MU:C6	2.41	0.55
30:21:38:THR:HG23	30:21:41:LYS:H	1.71	0.55
1:1G:1288:A:N3	1:1G:1352:C:O2'	2.39	0.55
20:BA:72:LEU:O	20:BA:73:HIS:HB2	2.05	0.55
26:14:528:A:C2	26:14:2043:C:H4'	2.41	0.55
26:14:607:U:H3	26:14:621:A:H2	1.53	0.55
26:14:839:U:H2'	26:14:840:C:C6	2.42	0.55
27:1J:16:G:N2	27:1J:68:C:O2	2.31	0.55
33:59:61:HIS:O	33:59:65:HIS:N	2.31	0.55
43:95:71:LEU:O	43:95:72:VAL:HG12	2.06	0.55
1:13:417:C:H2'	1:13:418:C:H6	1.70	0.55
1:13:501:C:H2'	1:13:502:G:H8	1.71	0.55
1:13:1171:G:O2'	1:13:1172:C:H5'	2.05	0.55
1:13:1239:A:H62	1:13:1299:A:H62	1.55	0.55
26:1H:654(O):G:H8	26:1H:654(P):G:H1'	1.69	0.55
26:1H:1265:A:H8	26:1H:1265:A:OP1	1.88	0.55
26:1H:1346:G:H2'	26:1H:1347:G:H8	1.70	0.55
26:1H:1442:G:C2	26:1H:1550:C:O2	2.60	0.55
26:1H:1526:G:H2'	26:1H:1527:G:C8	2.41	0.55
26:1H:2048:G:C2	26:1H:2621:A:C2	2.94	0.55
26:1H:2160:G:H2'	26:1H:2161:C:H4'	1.88	0.55
26:1H:2287:A:H2	26:1H:2346:A:C2	2.24	0.55
26:1H:2360:A:C2	26:1H:2361:A:H1'	2.41	0.55
26:1H:2812:G:H1	26:1H:2888:C:H42	1.54	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:58:67:LEU:HA	35:58:87:LEU:HD12	1.87	0.55
38:88:10:ARG:HH21	38:88:11:LYS:HE3	1.72	0.55
42:C8:92:ARG:NH1	42:C8:94:ASN:OD1	2.39	0.55
49:J8:3:LYS:O	49:J8:12:PRO:HD3	2.06	0.55
1:1G:1095:U:H2'	1:1G:1096:C:C6	2.41	0.55
1:1G:1372:U:OP1	9:82:72:GLY:N	2.39	0.55
3:22:70:VAL:HG12	3:22:72:LYS:N	2.18	0.55
8:72:68:ARG:NH1	8:72:69:ARG:O	2.39	0.55
23:2L:8:4SU:O5'	23:2L:8:4SU:H6	2.06	0.55
23:2L:10:G:N2	23:2L:27:G:H1'	2.22	0.55
26:14:76:C:O3'	50:G5:59:ARG:HG3	2.06	0.55
26:14:89:G:H3'	26:14:90:U:H5''	1.87	0.55
26:14:1525:G:H2'	26:14:1526:G:H8	1.71	0.55
26:14:1786:A:C2	26:14:2606:C:H1'	2.42	0.55
31:39:67:GLN:HG3	31:39:67:GLN:O	2.06	0.55
31:39:170:LEU:HD22	31:39:172:TRP:HE1	1.71	0.55
32:49:76:SER:HB2	32:49:84:LYS:HB2	1.88	0.55
41:75:11:GLU:N	41:75:11:GLU:CD	2.64	0.55
1:13:233:C:H2'	1:13:234:C:H6	1.70	0.55
1:13:559:A:OP1	5:4E:126:ARG:NH2	2.38	0.55
1:13:1061:G:OP1	10:1I:59:SER:OG	2.20	0.55
1:13:1257:U:O4	3:2E:27:LYS:HE2	2.06	0.55
26:1H:2863:C:H2'	26:1H:2864:G:C8	2.42	0.55
27:16:73:A:C4	27:16:104:A:C2	2.94	0.55
31:31:129:PHE:HA	31:31:142:TRP:NE1	2.21	0.55
34:61:110:ASP:OD1	34:61:111:PRO:HA	2.07	0.55
37:78:63:PRO:CB	55:Q8:30:ARG:HH21	2.19	0.55
38:88:31:ASP:H	38:88:107:ALA:HB2	1.71	0.55
44:E8:97:LYS:HE2	44:E8:99:ARG:NH2	2.20	0.55
1:1G:198:G:H2'	1:1G:199:G:H8	1.71	0.55
1:1G:594:G:H1	1:1G:645:C:H42	1.54	0.55
1:1G:739:C:O2'	15:6A:42:HIS:ND1	2.31	0.55
4:32:28:SER:HB3	4:32:29:PRO:HA	1.89	0.55
24:3L:58:A:H1'	24:3L:60:U:C5	2.42	0.55
26:14:548:A:C5	26:14:549:G:H1'	2.41	0.55
26:14:557:U:H2'	26:14:558:G:C8	2.41	0.55
26:14:709:U:H3	26:14:722:A:H61	1.55	0.55
26:14:1022:G:C6	26:14:1140:C:C4	2.94	0.55
26:14:1040:C:O2	26:14:1115:G:N2	2.35	0.55
26:14:1484:G:H2'	26:14:1485:G:H8	1.70	0.55
26:14:2006:C:O2'	26:14:2823:A:N3	2.35	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2280:G:O2'	26:14:2388:A:N1	2.37	0.55
26:14:2292:C:P	40:65:17:ARG:HH21	2.29	0.55
26:14:2329:G:H21	48:E5:41:ARG:HD3	1.70	0.55
27:1J:17:C:H2'	27:1J:18:G:O4'	2.06	0.55
27:1J:118:G:C5	27:1J:119:A:N7	2.74	0.55
36:25:9:GLU:O	36:25:83:ALA:HA	2.06	0.55
48:E5:38:VAL:HG12	48:E5:59:LEU:HG	1.87	0.55
1:13:812:C:OP1	1:13:902:G:N2	2.32	0.55
1:13:890:G:O2'	1:13:906:G:O6	2.18	0.55
1:13:1126:U:H5	1:13:1127:G:C2	2.25	0.55
1:13:1318:A:H2'	1:13:1319:A:H5''	1.87	0.55
1:13:1367:C:OP2	9:8E:112:LYS:NZ	2.40	0.55
5:4E:110:LEU:HD13	5:4E:118:ILE:HD13	1.89	0.55
19:AI:18:LYS:CG	19:AI:31:ILE:HD12	2.36	0.55
26:1H:1468:C:H2'	26:1H:1469:A:C8	2.41	0.55
26:1H:2684:U:H1'	36:68:70:LYS:HE2	1.87	0.55
39:98:13:HIS:NE2	39:98:15:SER:HB2	2.22	0.55
47:H8:28:MET:HB2	47:H8:35:ARG:HB2	1.88	0.55
47:H8:104:PHE:HA	47:H8:139:VAL:HB	1.89	0.55
1:1G:1243:C:OP2	21:1B:10:ARG:NH1	2.40	0.55
1:1G:1308:U:OP1	13:4A:98:VAL:N	2.34	0.55
7:62:15:ASP:OD1	7:62:19:GLY:N	2.39	0.55
26:14:662:G:OP1	37:35:15:ARG:NH2	2.39	0.55
26:14:2320:A:N6	26:14:2333:A:H2'	2.21	0.55
40:65:27:SER:HA	40:65:88:ASP:HB2	1.88	0.55
1:13:413:G:N2	1:13:428:G:H1'	2.22	0.55
13:4I:78:ILE:HA	13:4I:81:LEU:HB2	1.87	0.55
19:AI:28:LYS:HD2	19:AI:47:HIS:HA	1.87	0.55
26:1H:493:G:H2'	26:1H:494:G:O4'	2.07	0.55
26:1H:534:U:H5'	42:C8:42:ALA:HB1	1.89	0.55
26:1H:654(N):G:N7	26:1H:654(P):G:N2	2.54	0.55
26:1H:736:C:O5'	26:1H:736:C:H6	1.90	0.55
26:1H:2747:G:OP1	33:51:138:LYS:NZ	2.37	0.55
29:11:165:ILE:HD13	29:11:175:LEU:HD21	1.89	0.55
30:21:24:THR:HG21	30:21:188:VAL:HG22	1.89	0.55
43:D8:14:VAL:HB	43:D8:96:ILE:HG13	1.88	0.55
47:H8:93:ASP:O	47:H8:94:GLU:HG3	2.07	0.55
1:1G:155:C:H2'	1:1G:156:G:C8	2.41	0.55
1:1G:359:U:H2'	1:1G:360:A:H8	1.70	0.55
1:1G:991:U:C5	1:1G:1212:U:H1'	2.42	0.55
1:1G:1181:G:N2	1:1G:1182:G:HO2'	2.03	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4A:79:LYS:HG3	13:4A:82:MET:HE3	1.88	0.55
22:1L:42:A:H2'	22:1L:43:U:C5	2.41	0.55
26:14:631:A:N3	26:14:2415:G:O2'	2.33	0.55
26:14:2184:G:H2'	26:14:2185:C:C6	2.41	0.55
26:14:2432:A:H2'	26:14:2433:A:C8	2.41	0.55
26:14:2443:C:H2'	26:14:2444:G:H8	1.71	0.55
26:14:2612:C:H2'	26:14:2613:U:H5'	1.89	0.55
26:14:2747:G:H21	26:14:2757:A:H62	1.54	0.55
32:49:161:THR:HG22	32:49:163:ALA:H	1.72	0.55
37:35:78:PRO:HA	37:35:110:TYR:CD2	2.42	0.55
40:65:23:ARG:NH1	40:65:84:GLN:HB2	2.22	0.55
46:C5:52:SER:HB2	46:C5:56:PRO:HA	1.89	0.55
1:13:1014:A:C2	1:13:1219:U:H1'	2.42	0.55
4:3E:31:CYS:SG	4:3E:33:MET:HB2	2.46	0.55
22:1K:37:T6A:H2'	22:1K:38:A:O4'	2.06	0.55
26:1H:539:G:H2'	26:1H:540:G:H8	1.72	0.55
26:1H:573:G:O2'	26:1H:574:C:H3'	2.06	0.55
26:1H:1783:A:H5'	26:1H:2608:G:H4'	1.87	0.55
26:1H:2054:A:H5''	26:1H:2055:C:O5'	2.07	0.55
26:1H:2712:U:H1'	26:1H:2712(A):A:C8	2.42	0.55
27:16:11:C:H3'	27:16:12:C:C6	2.41	0.55
33:51:167:GLU:N	33:51:167:GLU:OE2	2.39	0.55
38:88:39:PRO:HA	38:88:97:VAL:O	2.07	0.55
41:B8:11:GLU:OE2	41:B8:11:GLU:HA	1.97	0.55
41:B8:28:VAL:HB	41:B8:86:ILE:HD11	1.87	0.55
1:1G:1217:C:OP1	14:5A:9:LYS:HE2	2.07	0.55
1:1G:1239:A:O2'	1:1G:1298:C:N4	2.38	0.55
3:22:14:ILE:HG13	3:22:15:THR:H	1.70	0.55
6:52:27:GLN:O	6:52:31:GLU:HG3	2.06	0.55
11:2A:27:ASN:ND2	11:2A:55:LYS:HD2	2.22	0.55
26:14:1425:G:N2	26:14:1573:G:N7	2.53	0.55
26:14:1826:G:H2'	26:14:1827:C:C6	2.41	0.55
26:14:2439:A:O2'	26:14:2440:C:OP2	2.23	0.55
26:14:2655:G:N2	26:14:2665:A:OP2	2.38	0.55
29:19:137:PRO:O	29:19:140:THR:OG1	2.20	0.55
41:75:50:ILE:HD11	41:75:102:ILE:CD1	2.37	0.55
17:8I:100:LYS:HG3	17:8I:101:ARG:HG3	1.88	0.55
26:1H:673:C:H5''	31:31:81:PRO:HD2	1.87	0.55
26:1H:1637:A:H4'	26:1H:2711:A:O2'	2.07	0.55
28:71:10:LEU:HD22	28:71:32:LEU:HA	1.88	0.55
28:71:184:LYS:HA	28:71:187:ASP:HB2	1.87	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1369:C:OP1	9:82:111:ARG:HB3	2.06	0.55
19:AA:10:PHE:CD2	19:AA:11:VAL:HG23	2.41	0.55
26:14:636:G:N7	37:35:113:LYS:NZ	2.41	0.55
26:14:2391:G:O6	26:14:2425:A:H8	1.89	0.55
36:25:25:LEU:HB2	36:25:38:VAL:HG23	1.88	0.55
37:35:105:LEU:O	37:35:106:LEU:HB3	2.05	0.55
38:45:21:THR:HG22	38:45:23:GLY:HA3	1.88	0.55
40:65:7:TYR:CZ	40:65:91:PRO:HG3	2.42	0.55
40:65:106:ARG:NH1	40:65:107:GLU:OE2	2.39	0.55
1:13:131:C:O2'	1:13:262:A:N3	2.31	0.55
1:13:256:U:H2'	1:13:257:G:C8	2.41	0.55
1:13:1041:A:H2'	1:13:1042:G:O4'	2.06	0.55
4:3E:173:TRP:CZ3	4:3E:193:ASP:HB3	2.42	0.55
8:7E:8:ASP:O	8:7E:12:ARG:HG3	2.07	0.55
26:1H:248:G:H5'	26:1H:250:G:N7	2.22	0.55
26:1H:285:C:H2'	26:1H:286:C:C6	2.42	0.55
26:1H:1442:G:H2'	26:1H:1443:G:C8	2.41	0.55
26:1H:2845:G:H2'	26:1H:2846:G:H8	1.72	0.55
29:11:146:GLU:HB2	29:11:189:CYS:CB	2.28	0.55
31:31:32:LEU:HD21	31:31:105:VAL:HG13	1.89	0.55
33:51:10:PRO:O	33:51:11:VAL:HG23	2.06	0.55
52:M8:23:GLU:OE1	52:M8:24:THR:N	2.40	0.55
1:1G:36:C:OP1	12:3A:123:LYS:NZ	2.39	0.55
1:1G:955:U:H1'	1:1G:1227:A:N6	2.21	0.55
1:1G:1123:A:H4'	10:1A:36:GLY:HA3	1.89	0.55
16:7A:19:ILE:HB	16:7A:36:ILE:O	2.06	0.55
26:14:329:G:P	46:C5:71:LYS:HE3	2.46	0.55
26:14:1399:C:H2'	26:14:1400:G:H8	1.71	0.55
26:14:2313:C:H2'	26:14:2314:C:C6	2.42	0.55
29:19:148:GLU:HB2	29:19:151:LYS:HD2	1.89	0.55
31:39:7:TYR:O	31:39:15:SER:HA	2.07	0.55
31:39:135:LYS:HB3	31:39:138:GLU:HG3	1.88	0.55
32:49:136:ARG:NH1	32:49:137:GLU:OE2	2.39	0.55
41:75:11:GLU:CD	41:75:11:GLU:H	2.13	0.55
43:95:35:LEU:O	43:95:37:VAL:HG22	2.07	0.55
46:C5:88:LYS:O	46:C5:89:PHE:HD1	1.89	0.55
47:D5:127:LYS:O	47:D5:162:GLU:HB3	2.07	0.55
1:13:310:G:OP2	16:7I:27:LYS:NZ	2.39	0.55
1:13:339:C:OP2	36:68:97:ARG:HD3	2.06	0.55
2:1E:28:PHE:HE1	2:1E:31:TYR:HD2	1.53	0.55
26:1H:1338:G:O2'	26:1H:1339:G:H5'	2.07	0.55

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2131:G:H5''	26:1H:2132:U:H5''	1.89	0.55
26:1H:2345:G:N3	26:1H:2381:C:H2'	2.22	0.55
26:1H:2845:G:O6	60:1H:3549:HOH:O	2.18	0.55
29:11:140:THR:HG22	29:11:141:VAL:O	2.06	0.55
31:31:184:TYR:O	31:31:188:ARG:HG2	2.07	0.55
47:H8:100:VAL:HG11	47:H8:137:ILE:HG13	1.89	0.55
50:K8:46:GLN:OE1	50:K8:46:GLN:N	2.40	0.55
1:1G:637:G:H2'	1:1G:638:G:H8	1.72	0.55
21:1B:6:ARG:HD3	21:1B:15:ARG:NH1	2.21	0.55
26:14:6:A:N7	26:14:2899:G:N2	2.55	0.55
26:14:2836:U:H2'	26:14:2837:G:H8	1.65	0.55
30:29:33:VAL:HG23	30:29:89:ASP:H	1.72	0.55
1:13:232:G:H2'	1:13:233:C:H6	1.72	0.55
8:7E:98:LYS:H	8:7E:98:LYS:HD2	1.72	0.55
9:8E:79:LEU:O	9:8E:83:ARG:N	2.40	0.55
26:1H:287:C:H2'	26:1H:288:C:C6	2.42	0.55
26:1H:527:C:H4'	26:1H:528:A:O5'	2.07	0.55
26:1H:1171:G:N2	26:1H:1178:C:O2	2.37	0.55
26:1H:1496:A:H8	26:1H:1577:C:O2'	1.90	0.55
26:1H:1657:C:H2'	26:1H:1658:C:C6	2.42	0.55
26:1H:1675:C:H2'	26:1H:1676:A:O4'	2.06	0.55
26:1H:2400:G:H2'	26:1H:2401:U:C6	2.42	0.55
26:1H:2428:G:N2	37:78:61:ARG:HH21	2.04	0.55
29:11:32:SER:HA	29:11:35:LYS:HZ3	1.71	0.55
37:78:96:THR:C	37:78:98:GLU:H	2.14	0.55
52:M8:34:GLU:HG2	52:M8:35:VAL:H	1.72	0.55
20:BA:51:GLU:HA	20:BA:54:LYS:HE3	1.89	0.55
26:14:91:A:H2'	26:14:92:G:C8	2.40	0.55
26:14:492:A:H2'	26:14:493:G:O4'	2.07	0.55
26:14:1336:A:H2'	26:14:1337:G:C8	2.42	0.55
26:14:2052:G:O4'	30:29:142:GLY:HA3	2.07	0.55
26:14:2689:U:P	26:14:2719:G:H22	2.30	0.55
27:1J:11:C:OP2	27:1J:12:C:N4	2.35	0.55
29:19:27:THR:HG22	29:19:29:PRO:O	2.07	0.55
34:69:143:SER:OG	34:69:144:VAL:N	2.39	0.55
39:55:44:LEU:HD22	39:55:48:VAL:HG23	1.87	0.55
55:M5:37:SER:OG	55:M5:39:LYS:O	2.24	0.55
1:13:7:G:H2'	5:4E:119:LEU:HD22	1.88	0.54
1:13:628:G:H2'	1:13:629:G:C8	2.42	0.54
1:13:843:U:H5''	1:13:848:C:C5	2.43	0.54
13:4I:45:VAL:HA	13:4I:48:LEU:HD22	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:8I:45:HIS:O	17:8I:73:VAL:HG23	2.06	0.54
21:1F:9:ARG:O	21:1F:13:ILE:HG13	2.06	0.54
26:1H:620:G:H4'	26:1H:621:A:C5'	2.31	0.54
26:1H:817:C:O2'	26:1H:839:U:OP1	2.15	0.54
26:1H:1196:C:H41	37:78:16:ARG:HH12	1.55	0.54
26:1H:1359:A:H2	26:1H:1372:U:O4	1.90	0.54
26:1H:2147:G:H3'	26:1H:2148:G:H8	1.71	0.54
26:1H:2705:A:H2'	26:1H:2706:G:O4'	2.07	0.54
30:21:89:ASP:OD1	30:21:90:THR:N	2.40	0.54
31:31:130:ALA:H	31:31:132:VAL:HG13	1.72	0.54
32:41:65:GLY:HA3	52:M8:9:LEU:HD13	1.89	0.54
33:51:6:ARG:HA	33:51:66:GLY:HA2	1.88	0.54
35:58:49:GLY:O	35:58:119:ARG:CZ	2.53	0.54
1:1G:446:G:H1	1:1G:488:C:H42	1.55	0.54
1:1G:1423:G:H2'	1:1G:1424:C:C6	2.42	0.54
1:1G:1502:A:H4'	1:1G:1503:A:OP2	2.07	0.54
10:1A:28:ARG:NH2	10:1A:34:VAL:HB	2.21	0.54
26:14:1164:G:H1	26:14:1185:C:H42	1.55	0.54
26:14:2010:G:H5''	44:A5:42:ARG:HB2	1.88	0.54
26:14:2649:U:H3	26:14:2671:A:N6	1.99	0.54
30:29:112:GLY:C	30:29:159:HIS:HD2	2.14	0.54
31:39:89:VAL:O	31:39:90:PHE:C	2.50	0.54
1:13:1075:C:H2'	1:13:1076:C:H6	1.72	0.54
1:13:1455:G:H8	1:13:1455:G:O5'	1.90	0.54
6:5E:16:GLN:HG2	6:5E:17:SER:H	1.70	0.54
18:9I:50:ILE:HD11	18:9I:70:ILE:HG21	1.88	0.54
26:1H:912:C:OP1	38:88:8:LYS:NZ	2.39	0.54
26:1H:1794:U:H2'	26:1H:1795:C:H6	1.71	0.54
27:16:44:G:OP1	52:M8:1:MET:HE1	2.02	0.54
1:1G:1258:G:H2'	1:1G:1259:C:C6	2.42	0.54
2:12:19:HIS:ND1	2:12:204:ASN:HB3	2.21	0.54
3:22:88:ARG:HG3	3:22:101:LEU:HD12	1.89	0.54
4:32:3:ARG:NE	4:32:118:ARG:NE	2.47	0.54
14:5A:9:LYS:HB3	14:5A:12:ARG:HH12	1.71	0.54
26:14:957:A:OP1	38:45:76:LYS:HD3	2.07	0.54
26:14:1826:G:H2'	26:14:1827:C:H6	1.73	0.54
29:19:108:PRO:HG2	29:19:111:LEU:HB2	1.89	0.54
32:49:36:LYS:HG3	32:49:93:THR:HG23	1.88	0.54
42:85:97:ASP:O	42:85:100:VAL:N	2.38	0.54
1:13:51:A:OP2	1:13:52:G:H8	1.90	0.54
1:13:57:G:H2'	1:13:58:C:C6	2.42	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:262:A:H5'	20:BI:74:LYS:HG3	1.89	0.54
1:13:560:U:O2'	1:13:561:U:OP2	2.24	0.54
5:4E:35:GLY:HA3	5:4E:112:LEU:HB3	1.90	0.54
7:6E:123:GLU:O	7:6E:127:ALA:N	2.34	0.54
9:8E:16:ARG:NE	9:8E:64:THR:OG1	2.41	0.54
26:1H:286:C:H2'	26:1H:287:C:C6	2.41	0.54
26:1H:1505:C:H2'	26:1H:1506:C:C6	2.43	0.54
28:71:29:VAL:HG13	28:71:30:LYS:HG3	1.90	0.54
28:71:62:VAL:HG21	28:71:192:PHE:CZ	2.42	0.54
34:61:9:LEU:O	34:61:10:GLU:HG3	2.06	0.54
35:58:130:HIS:C	35:58:134:ARG:HH22	2.15	0.54
38:88:34:LEU:HB2	38:88:118:LEU:HD22	1.89	0.54
41:B8:77:PRO:HG2	41:B8:80:SER:HB2	1.89	0.54
50:K8:4:SER:HB3	50:K8:7:ARG:N	2.21	0.54
1:1G:1281:U:H3'	1:1G:1282:C:C5	2.41	0.54
4:32:175:SER:HB3	4:32:184:LYS:HB2	1.88	0.54
5:42:42:GLY:HA3	5:42:66:MET:HA	1.89	0.54
5:42:42:GLY:HA3	5:42:65:ASN:O	2.07	0.54
9:82:19:LEU:HD13	9:82:88:TYR:CD2	2.43	0.54
9:82:102:LEU:O	9:82:103:THR:OG1	2.23	0.54
9:82:117:HIS:O	9:82:118:LYS:HB2	2.06	0.54
12:3A:39:VAL:HB	12:3A:57:LYS:HD3	1.89	0.54
26:14:95:G:H4'	50:G5:46:GLN:HB2	1.89	0.54
26:14:95:G:O2'	50:G5:48:HIS:ND1	2.39	0.54
26:14:278:A:OP2	26:14:278:A:H2'	2.08	0.54
26:14:336:C:OP1	46:C5:83:THR:HG23	2.07	0.54
26:14:1257:C:H4'	31:39:83:PHE:CD1	2.43	0.54
26:14:1444(A):A:O2'	26:14:1445:C:O5'	2.26	0.54
26:14:1657:C:H2'	26:14:1658:C:H6	1.72	0.54
26:14:1678:G:H22	26:14:1989:G:N2	2.04	0.54
26:14:2643:G:H2'	26:14:2644:G:O4'	2.07	0.54
41:75:108:ARG:HA	41:75:111:ARG:HB2	1.89	0.54
55:M5:33:ASN:O	55:M5:34:TRP:C	2.50	0.54
1:13:237:C:H5''	17:8I:25:ARG:CZ	2.38	0.54
1:13:682:G:H2'	1:13:683:G:H8	1.71	0.54
1:13:838:G:H1	1:13:848:C:H42	1.52	0.54
4:3E:155:LEU:O	4:3E:158:ILE:N	2.39	0.54
8:7E:27:PRO:HA	8:7E:58:TYR:HA	1.89	0.54
26:1H:2111:C:N3	26:1H:2118:U:O2'	2.41	0.54
26:1H:2695:C:H2'	26:1H:2696:U:C6	2.42	0.54
29:11:11:PRO:O	29:11:12:SER:OG	2.17	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:21:55:ASN:HB3	30:21:58:ARG:HG3	1.89	0.54
30:21:131:ALA:HB1	30:21:135:HIS:HE1	1.72	0.54
40:A8:8:GLU:O	40:A8:11:LYS:HB3	2.08	0.54
49:J8:78:LYS:HD3	49:J8:78:LYS:N	2.23	0.54
1:1G:146:G:H2'	1:1G:147:G:H8	1.72	0.54
1:1G:397:A:H3'	1:1G:397:A:N3	2.22	0.54
1:1G:407:G:OP1	4:32:115:ARG:NE	2.40	0.54
1:1G:857:C:H3'	1:1G:858:G:C8	2.42	0.54
1:1G:1273:G:H3'	1:1G:1274:G:C8	2.37	0.54
2:12:32:ILE:HD11	2:12:40:HIS:HB3	1.89	0.54
26:14:77:C:H5''	50:G5:10:LEU:HD21	1.90	0.54
26:14:1225:C:H4'	43:95:85:LYS:CG	2.38	0.54
26:14:1568:G:H5'	29:19:60:ARG:HA	1.89	0.54
26:14:1662:C:O2'	26:14:2687:U:OP1	2.22	0.54
26:14:1730:U:H3'	26:14:1731:G:N2	2.22	0.54
27:1J:5:C:N4	27:1J:115:G:H1	2.04	0.54
48:E5:72:ARG:HB3	48:E5:75:LEU:HB2	1.89	0.54
49:F5:53:VAL:HG21	49:F5:74:VAL:HG22	1.90	0.54
55:M5:43:GLN:HG3	55:M5:46:ARG:HH21	1.72	0.54
1:13:110:C:H2'	1:13:111:G:O4'	2.07	0.54
5:4E:6:PHE:CE1	5:4E:36:ASP:HB3	2.43	0.54
10:1I:92:THR:OG1	10:1I:93:GLY:N	2.40	0.54
14:5I:42:ILE:O	14:5I:46:GLU:HG3	2.07	0.54
15:6I:71:GLN:HG2	15:6I:78:TYR:CD1	2.43	0.54
26:1H:459:U:H2'	26:1H:460:A:C8	2.42	0.54
26:1H:528:A:O2'	26:1H:529:A:H5''	2.07	0.54
26:1H:530:G:C5	26:1H:2022:U:H5''	2.42	0.54
26:1H:1345:C:H2'	26:1H:1346:G:H8	1.72	0.54
26:1H:2615:U:OP2	60:1H:3551:HOH:O	2.18	0.54
52:M8:14:ILE:HG13	52:M8:31:ILE:HB	1.90	0.54
1:1G:222:U:H2'	1:1G:223:U:C6	2.41	0.54
1:1G:512:U:H2'	1:1G:513:C:H6	1.72	0.54
1:1G:620:C:C2	4:32:135:LEU:HG	2.42	0.54
4:32:31:CYS:C	4:32:33:MET:N	2.64	0.54
13:4A:32:GLU:O	13:4A:36:LYS:N	2.34	0.54
26:14:958:U:OP2	38:45:14:ARG:NH1	2.34	0.54
26:14:2404:C:O3'	37:35:77:ARG:NH2	2.40	0.54
26:14:2789:C:H1'	26:14:2892:A:H2	1.72	0.54
33:59:74:ASN:HA	33:59:77:LYS:HB2	1.88	0.54
41:75:50:ILE:HD11	41:75:102:ILE:CG1	2.37	0.54
46:C5:17:SER:O	46:C5:21:LYS:HB2	2.07	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:48:ALA:HB1	46:C5:50:ARG:HD2	1.88	0.54
1:13:719:C:O2'	18:9I:49:LYS:HB3	2.07	0.54
2:1E:36:ARG:HD2	2:1E:37:ASN:H	1.73	0.54
2:1E:73:THR:HG22	2:1E:74:LYS:HG3	1.89	0.54
2:1E:114:ARG:HG3	2:1E:118:LEU:HD23	1.89	0.54
4:3E:107:ARG:NH2	4:3E:194:LEU:HD22	2.19	0.54
7:6E:143:ARG:NH1	24:3K:41:A:O3'	2.34	0.54
16:7I:68:ASP:O	16:7I:71:ARG:HG2	2.07	0.54
26:1H:616:A:C4	31:31:180:GLY:HA2	2.43	0.54
26:1H:2776:A:H4'	26:1H:2777:G:H5''	1.90	0.54
27:16:54:G:H2'	27:16:55:U:H6	1.73	0.54
32:41:3:LEU:O	32:41:3:LEU:HD23	2.06	0.54
32:41:98:ARG:NH2	52:M8:1:MET:HE1	2.22	0.54
37:78:125:VAL:O	37:78:144:GLU:HB2	2.07	0.54
42:C8:65:ILE:HG12	42:C8:96:ALA:HB2	1.89	0.54
44:E8:76:VAL:HG21	44:E8:101:SER:HB3	1.90	0.54
1:1G:458:C:N4	1:1G:464:G:O6	2.41	0.54
1:1G:481:G:O2'	1:1G:483:C:N4	2.41	0.54
1:1G:1161:C:H2'	1:1G:1162:C:C6	2.42	0.54
2:12:24:TRP:HE3	2:12:190:THR:HB	1.70	0.54
17:8A:51:TYR:CE1	17:8A:73:VAL:HG11	2.43	0.54
26:14:1500:G:O2'	29:19:100:GLY:O	2.20	0.54
26:14:2647:U:H2'	26:14:2648:C:C6	2.43	0.54
27:1J:55:U:HO2'	32:49:29:TRP:CD1	2.26	0.54
5:4E:148:VAL:O	5:4E:151:LEU:HB2	2.08	0.54
26:1H:1515:C:H2'	26:1H:1516:U:H6	1.72	0.54
26:1H:1534:G:H21	26:1H:1535:U:H5	1.55	0.54
26:1H:2346:A:C2	26:1H:2383:G:C2	2.96	0.54
26:1H:2690:C:N4	60:1H:3529:HOH:O	2.40	0.54
27:16:24:G:N7	27:16:56:G:H2'	2.23	0.54
29:11:236:GLY:O	29:11:237:GLU:O	2.26	0.54
31:31:63:LYS:NZ	31:31:75:HIS:O	2.40	0.54
32:41:56:ALA:O	32:41:59:GLU:N	2.41	0.54
32:41:109:VAL:O	32:41:113:ARG:HG3	2.08	0.54
33:51:68:THR:O	33:51:72:ILE:HG12	2.08	0.54
34:61:29:TYR:HD2	34:61:30:LEU:HD23	1.73	0.54
37:78:49:ARG:HH11	37:78:49:ARG:CB	2.19	0.54
1:1G:149:A:H2'	1:1G:150:C:C6	2.42	0.54
1:1G:165:C:H2'	1:1G:166:G:C8	2.43	0.54
1:1G:501:C:H2'	1:1G:502:G:C8	2.41	0.54
1:1G:582:U:OP1	15:6A:68:ARG:NH2	2.41	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1106:G:H5''	3:22:172:ARG:HG2	1.89	0.54
2:12:105:PHE:HA	2:12:108:ILE:CG2	2.35	0.54
3:22:6:HIS:ND1	14:5A:49:HIS:HB3	2.22	0.54
7:62:69:VAL:HG12	7:62:103:TRP:HE3	1.73	0.54
7:62:120:ILE:HG22	7:62:124:LEU:HD12	1.88	0.54
12:3A:84:LEU:HG	12:3A:105:TYR:CE2	2.43	0.54
23:2L:44:A:H2'	23:2L:45:A:C8	2.42	0.54
26:14:673:C:H5''	31:39:81:PRO:HD2	1.89	0.54
26:14:1106:G:H3'	26:14:1107:G:H8	1.71	0.54
27:1J:53:A:H2'	27:1J:54:G:O4'	2.08	0.54
30:29:53:PRO:HA	30:29:74:PRO:HB3	1.89	0.54
32:49:114:ILE:HD13	32:49:140:ILE:HG21	1.90	0.54
36:25:68:GLU:H	36:25:68:GLU:CD	2.14	0.54
37:35:57:THR:HG23	37:35:60:MET:HB2	1.88	0.54
46:C5:46:LYS:CB	46:C5:61:ILE:H	2.20	0.54
1:13:22:G:H4'	1:13:885:G:C8	2.43	0.54
1:13:457:C:H2'	1:13:458:C:C6	2.43	0.54
2:1E:8:LYS:HG2	2:1E:9:GLU:N	2.22	0.54
12:3I:70:ILE:HD13	12:3I:77:LEU:HD12	1.89	0.54
24:3K:59:A:H5'	24:3K:60:U:H5	1.73	0.54
26:1H:1209:G:H21	26:1H:1210:A:H62	1.56	0.54
26:1H:1296:G:O2'	26:1H:1297:C:H5'	2.07	0.54
31:31:196:LEU:O	31:31:200:GLU:HB2	2.07	0.54
32:41:106:LEU:HD12	32:41:110:ALA:HB3	1.89	0.54
1:1G:147:G:H2'	1:1G:148:G:H8	1.72	0.54
1:1G:261:U:OP2	20:BA:79:ARG:NH2	2.39	0.54
1:1G:353:A:H5'	1:1G:353:A:C8	2.38	0.54
1:1G:1386:G:C2	1:1G:1387:G:C8	2.95	0.54
1:1G:1443:G:N2	41:75:119:LYS:HB2	2.23	0.54
6:52:14:LEU:HB2	6:52:18:GLN:OE1	2.08	0.54
7:62:126:ASP:HB3	7:62:131:LYS:O	2.08	0.54
23:2L:60:A:H2'	23:2L:61:U:H5'	1.90	0.54
26:14:848:G:C4	26:14:933:A:H8	2.26	0.54
26:14:1729:A:C5	26:14:1731:G:C6	2.96	0.54
26:14:2733:A:H61	30:29:202:LYS:HB3	1.72	0.54
31:39:7:TYR:CD1	31:39:18:ARG:HB2	2.43	0.54
42:85:76:TYR:O	42:85:80:ILE:HG22	2.08	0.54
45:B5:63:LYS:N	45:B5:63:LYS:CD	2.70	0.54
51:H5:4:LEU:O	51:H5:36:VAL:HA	2.07	0.54
55:M5:34:TRP:HA	55:M5:34:TRP:CE3	2.42	0.54
1:13:38:G:H22	1:13:397:A:P	2.31	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1015:A:H2'	1:13:1016:A:H8	1.71	0.54
2:1E:8:LYS:CG	2:1E:9:GLU:H	2.21	0.54
12:3I:66:VAL:HG21	12:3I:98:TYR:HE1	1.73	0.54
20:BI:10:LEU:HD21	20:BI:12:ALA:HB3	1.90	0.54
26:1H:460:A:H5''	26:1H:461:C:OP2	2.08	0.54
26:1H:532:A:OP1	26:1H:561:G:N2	2.30	0.54
26:1H:1021:A:H3'	26:1H:1022:G:H5''	1.89	0.54
26:1H:1899:G:N2	26:1H:1902:C:N4	2.42	0.54
36:68:107:ARG:NH1	36:68:107:ARG:HB2	2.23	0.54
37:78:59:LEU:HB2	55:Q8:58:ILE:CD1	2.38	0.54
1:1G:589:C:H42	1:1G:650:G:H1	1.55	0.54
1:1G:1315:U:H2'	1:1G:1316:G:O4'	2.08	0.54
4:32:133:VAL:HG12	4:32:135:LEU:H	1.71	0.54
8:72:34:GLU:OE1	8:72:37:ARG:NH1	2.41	0.54
19:AA:66:MET:HA	19:AA:67:VAL:O	2.08	0.54
26:14:10:G:H2'	26:14:11:G:C8	2.43	0.54
26:14:89:G:H3'	26:14:90:U:C5'	2.38	0.54
26:14:660:G:H21	37:35:12:ALA:CB	2.21	0.54
26:14:2370:G:C6	26:14:2371:G:C6	2.96	0.54
30:29:81:ILE:HG22	30:29:82:ARG:N	2.19	0.54
31:39:89:VAL:HG12	31:39:90:PHE:H	1.73	0.54
40:65:87:PHE:CE1	40:65:102:ALA:HB2	2.43	0.54
1:13:618:C:H5''	1:13:619:U:H5''	1.89	0.54
4:3E:157:LEU:O	4:3E:161:ASN:ND2	2.41	0.54
26:1H:734:A:O2'	26:1H:1635:G:H5'	2.08	0.54
26:1H:1053:C:H5''	26:1H:1107:G:H22	1.72	0.54
26:1H:1279:G:H4'	39:98:31:HIS:CD2	2.43	0.54
26:1H:1551:C:C2	26:1H:1552:G:C8	2.96	0.54
26:1H:2709:G:H1'	60:1H:3976:HOH:O	2.08	0.54
39:98:12:ARG:HB3	39:98:16:HIS:HB3	1.90	0.54
40:A8:42:ASP:O	40:A8:43:GLU:HB3	2.07	0.54
55:Q8:50:LEU:HD13	55:Q8:50:LEU:O	2.07	0.54
1:1G:666:G:H5'	1:1G:726:C:H1'	1.90	0.54
1:1G:1220:G:O3'	19:AA:36:ARG:HD3	2.08	0.54
1:1G:1292:U:OP2	7:62:41:ARG:NH1	2.41	0.54
1:1G:1408:A:N1	57:1G:1681:PAR:H611	2.23	0.54
3:22:32:LEU:HD23	3:22:59:ARG:HH12	1.73	0.54
3:22:134:ILE:HD12	3:22:151:VAL:HG11	1.90	0.54
26:14:972:G:OP2	26:14:973:A:O2'	2.21	0.54
26:14:1572:A:H2'	26:14:1573:G:O4'	2.08	0.54
26:14:1771:C:O2'	26:14:1786:A:H8	1.89	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:108:SER:OG	30:29:163:GLU:HG2	2.08	0.54
33:59:144:VAL:HG13	33:59:147:ASN:HD21	1.73	0.54
38:45:50:ALA:HB1	38:45:121:ALA:HB1	1.90	0.54
39:55:24:GLN:HB3	39:55:44:LEU:HD11	1.90	0.54
43:95:38:LEU:HD23	43:95:40:LEU:O	2.08	0.54
47:D5:30:ASN:OD1	47:D5:32:HIS:N	2.33	0.54
1:13:539:A:OP1	12:3I:114:LYS:HE2	2.08	0.53
1:13:1003:G:H1	1:13:1037:C:H42	1.54	0.53
1:13:1423:G:OP1	36:68:49:ARG:NH2	2.42	0.53
4:3E:160:GLN:HA	4:3E:163:GLU:HB3	1.89	0.53
26:1H:33:U:H4'	26:1H:34:C:OP1	2.07	0.53
26:1H:125:G:H5'	26:1H:125:G:H8	1.74	0.53
26:1H:1187:G:H5''	43:D8:81:TYR:CE2	2.42	0.53
26:1H:2233:U:H2'	26:1H:2234:G:C8	2.44	0.53
31:31:129:PHE:HB2	31:31:132:VAL:HG13	1.89	0.53
43:D8:4:ILE:HG22	43:D8:39:LEU:HD12	1.89	0.53
43:D8:49:THR:HG23	43:D8:51:VAL:H	1.73	0.53
1:1G:636:U:H2'	1:1G:637:G:C8	2.43	0.53
1:1G:1137:C:H4'	1:1G:1138:G:O5'	2.08	0.53
26:14:528:A:O2'	26:14:529:A:H5'	2.08	0.53
26:14:2126:A:H1'	26:14:2127:G:H5''	1.89	0.53
26:14:2839:G:H21	39:55:92:GLY:HA2	1.73	0.53
36:25:3:GLN:HB2	36:25:4:PRO:HD2	1.90	0.53
36:25:13:ASN:ND2	36:25:96:THR:OG1	2.41	0.53
38:45:133:ARG:O	38:45:134:ARG:HB3	2.08	0.53
1:13:7:G:H5'	1:13:298:A:O4'	2.07	0.53
1:13:157:G:H2'	1:13:158:G:C8	2.42	0.53
1:13:158:G:H2'	1:13:159:G:H8	1.73	0.53
1:13:750:G:N3	15:6I:23:GLY:HA3	2.24	0.53
1:13:1263:C:H2'	1:13:1264:C:C6	2.43	0.53
2:1E:15:VAL:H	2:1E:16:HIS:CD2	2.26	0.53
2:1E:178:ARG:NH1	2:1E:196:LEU:O	2.32	0.53
9:8E:9:ARG:HB3	9:8E:14:VAL:HG22	1.90	0.53
10:1I:8:LEU:HD12	10:1I:20:ALA:HB2	1.90	0.53
17:8I:66:SER:O	17:8I:70:ARG:NH1	2.41	0.53
23:2K:2:G:H2'	23:2K:3:C:C6	2.43	0.53
26:1H:205:G:O6	49:J8:39:LYS:NZ	2.40	0.53
26:1H:1045:A:H1'	26:1H:1047:G:C6	2.43	0.53
26:1H:1483:G:O6	26:1H:1506:C:N4	2.40	0.53
27:16:90:C:P	38:88:16:ARG:HH21	2.30	0.53
31:31:167:ALA:HB1	31:31:173:VAL:HG11	1.89	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:95:ARG:HB2	33:51:128:PRO:HB2	1.90	0.53
55:Q8:52:LYS:O	55:Q8:55:ALA:N	2.38	0.53
1:1G:1277:C:O2'	1:1G:1279:A:H1'	2.09	0.53
3:22:16:ARG:HH22	3:22:181:ASN:HD22	1.55	0.53
16:7A:20:VAL:HG11	16:7A:32:TYR:CD2	2.43	0.53
24:3L:51:A:H62	24:3L:63:U:H3	1.55	0.53
26:14:468:G:N7	54:L5:39:ARG:NH2	2.52	0.53
26:14:536:A:H2'	26:14:537:C:C6	2.43	0.53
26:14:670:A:H4'	26:14:671:C:O5'	2.07	0.53
26:14:2086:U:P	29:19:262:ARG:HH21	2.32	0.53
26:14:2396:G:H4'	49:F5:30:VAL:H	1.73	0.53
30:29:9:VAL:HG23	30:29:26:ILE:O	2.09	0.53
34:69:81:VAL:HG12	34:69:143:SER:HB3	1.90	0.53
35:15:91:LEU:O	35:15:95:PRO:HB3	2.08	0.53
47:D5:3:TYR:O	47:D5:58:VAL:N	2.28	0.53
4:3E:12:CYS:SG	4:3E:19:LEU:N	2.71	0.53
5:4E:57:LYS:HA	5:4E:60:TYR:HB3	1.88	0.53
11:2I:22:HIS:HB3	11:2I:29:ILE:HG23	1.90	0.53
26:1H:16:G:H2'	26:1H:17:G:H8	1.73	0.53
26:1H:1533:C:H2'	26:1H:1534:G:H8	1.72	0.53
26:1H:2062:A:O2'	26:1H:2063:C:P	2.66	0.53
32:41:46:ALA:HB2	32:41:52:ILE:HB	1.89	0.53
37:78:39:LYS:CA	37:78:45:LEU:HD11	2.38	0.53
47:H8:61:LEU:O	47:H8:64:GLY:HA2	2.07	0.53
50:K8:15:LYS:HZ2	50:K8:15:LYS:N	2.07	0.53
1:1G:411:A:H61	1:1G:430:A:H62	1.57	0.53
1:1G:529:G:O6	12:3A:49:ASN:HA	2.08	0.53
1:1G:660:G:N2	1:1G:745:C:N3	2.48	0.53
1:1G:1132:C:H2'	1:1G:1133:G:H8	1.73	0.53
4:32:71:SER:HB3	4:32:74:GLN:OE1	2.08	0.53
23:2L:32:G:O6	23:2L:33:OMC:N4	2.42	0.53
26:14:635:C:H2'	26:14:636:G:O4'	2.07	0.53
26:14:674:G:C1'	31:39:74:ARG:HD3	2.38	0.53
26:14:1027:A:C2	26:14:2488:A:H5'	2.43	0.53
26:14:1946:U:H2'	26:14:1947:C:C6	2.42	0.53
26:14:2845:G:OP2	60:14:3419:HOH:O	2.19	0.53
1:13:324:G:OP1	20:BI:70:SER:OG	2.23	0.53
1:13:417:C:H2'	1:13:418:C:C6	2.43	0.53
1:13:1497:G:H2'	1:13:1498:U:H5'	1.89	0.53
5:4E:15:ARG:HB2	5:4E:28:PHE:CE2	2.44	0.53
6:5E:44:GLY:HA2	6:5E:59:TYR:CE1	2.43	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:7E:21:LYS:O	8:7E:65:TYR:OH	2.24	0.53
9:8E:114:TYR:CE1	10:1I:59:SER:HA	2.44	0.53
20:BI:30:LYS:HZ1	20:BI:80:ARG:NH1	2.06	0.53
26:1H:764:A:O4'	29:11:213:ARG:HG3	2.08	0.53
26:1H:1260:G:C6	26:1H:1261:C:C4	2.96	0.53
26:1H:1359:A:C2	26:1H:1372:U:O4	2.62	0.53
26:1H:2052:G:C8	30:21:141:ILE:HD11	2.43	0.53
26:1H:2275:C:C6	26:1H:2275:C:H5'	2.44	0.53
30:21:39:PRO:HD3	30:21:45:THR:HG22	1.91	0.53
33:51:102:ALA:HB2	33:51:116:GLU:OE1	2.09	0.53
33:51:158:HIS:CA	33:51:170:ARG:HE	2.22	0.53
1:1G:5:U:H4'	1:1G:6:G:H5'	1.89	0.53
1:1G:868:C:H2'	1:1G:869:G:O4'	2.08	0.53
1:1G:1240:U:H3'	1:1G:1241:G:H8	1.73	0.53
1:1G:1494:G:N7	57:1G:1681:PAR:N32	2.56	0.53
2:12:11:LEU:HG	2:12:217:ARG:NH2	2.11	0.53
7:62:51:GLN:HG2	7:62:56:GLN:O	2.08	0.53
9:82:28:VAL:HG22	9:82:63:ILE:HB	1.89	0.53
13:4A:66:LEU:HA	13:4A:70:LEU:HB2	1.91	0.53
23:2L:36:A:H2'	23:2L:37:U:C6	2.44	0.53
26:14:2250:G:C2	38:45:82:ARG:HB3	2.44	0.53
30:29:7:VAL:HG12	30:29:193:GLY:HA2	1.91	0.53
50:G5:48:HIS:O	50:G5:52:ASP:HB2	2.09	0.53
1:13:1177:G:H2'	1:13:1178:G:C8	2.43	0.53
6:5E:44:GLY:HA2	6:5E:59:TYR:CZ	2.44	0.53
22:1K:38:A:H5'	26:1H:1913:A:C6	2.43	0.53
24:3K:6:G:N2	24:3K:67:C:O2'	2.39	0.53
24:3K:72:C:H3'	24:3K:73:A:H5''	1.89	0.53
26:1H:583:G:OP2	42:C8:10:ARG:HD2	2.09	0.53
26:1H:910:A:C4	38:88:13:GLN:NE2	2.77	0.53
26:1H:1799:G:O6	29:11:179:SER:HB3	2.09	0.53
29:11:34:VAL:C	29:11:35:LYS:HZ2	2.16	0.53
29:11:168:ARG:HG2	29:11:173:VAL:HG12	1.91	0.53
39:98:12:ARG:HG2	39:98:16:HIS:ND1	2.23	0.53
42:C8:88:ILE:C	42:C8:90:VAL:H	2.16	0.53
1:1G:90:C:H2'	1:1G:91:C:O4'	2.09	0.53
1:1G:364:A:H61	12:3A:28:LYS:HZ3	1.56	0.53
1:1G:617:G:H4'	16:7A:44:THR:HB	1.91	0.53
1:1G:854:G:C2	1:1G:855:G:C8	2.96	0.53
1:1G:946:A:O2'	1:1G:1333:A:N3	2.34	0.53
2:12:32:ILE:HG12	2:12:33:TYR:N	2.24	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:22:91:LEU:HD21	3:22:101:LEU:HD21	1.90	0.53
4:32:19:LEU:HB2	4:32:21:LEU:HD13	1.91	0.53
9:82:7:THR:O	9:82:83:ARG:HD2	2.09	0.53
26:14:460:A:H62	26:14:469:G:H21	1.57	0.53
26:14:1448:G:H1'	26:14:1528:A:H62	1.73	0.53
26:14:2641:G:P	35:15:74:ARG:HH21	2.31	0.53
28:79:17:ASN:HB2	28:79:18:LYS:HD2	1.89	0.53
43:95:85:LYS:HE3	43:95:88:ARG:H	1.73	0.53
45:B5:66:LEU:O	45:B5:66:LEU:HD23	2.09	0.53
45:B5:72:LYS:NZ	45:B5:75:ASP:OD1	2.41	0.53
3:2E:7:PRO:HG2	3:2E:184:TYR:HB2	1.90	0.53
26:1H:880:G:H8	26:1H:880:G:O5'	1.91	0.53
27:16:80:U:H2'	27:16:81:G:N2	2.16	0.53
31:31:192:LEU:HD23	31:31:193:VAL:N	2.23	0.53
35:58:20:GLY:HA2	35:58:61:ARG:HD3	1.89	0.53
35:58:26:LEU:O	35:58:30:ILE:HG13	2.08	0.53
36:68:13:ASN:ND2	36:68:97:ARG:HB2	2.23	0.53
41:B8:54:ARG:HA	41:B8:59:THR:HG23	1.90	0.53
45:F8:25:LYS:HA	45:F8:81:VAL:O	2.09	0.53
46:G8:94:LYS:HE3	46:G8:96:ILE:HG23	1.90	0.53
4:32:43:HIS:HA	4:32:46:LYS:HE3	1.90	0.53
8:72:35:ILE:HD13	8:72:118:VAL:HG11	1.90	0.53
19:AA:53:ASN:HA	19:AA:77:THR:HG22	1.89	0.53
24:3L:4:U:H2'	24:3L:5:C:O4'	2.08	0.53
26:14:89:G:OP2	26:14:90:U:H3'	2.09	0.53
26:14:606:U:OP1	31:39:104:LYS:CD	2.41	0.53
26:14:1533:C:N4	26:14:1534:G:O2'	2.42	0.53
26:14:2115:G:N1	26:14:2117:A:N7	2.57	0.53
26:14:2562:U:H4'	36:25:25:LEU:HD21	1.91	0.53
29:19:70:TRP:CH2	29:19:150:LYS:HA	2.44	0.53
32:49:73:ALA:HB3	32:49:84:LYS:HA	1.90	0.53
34:69:63:ALA:HA	34:69:66:GLU:HG2	1.91	0.53
44:A5:72:LYS:HB3	44:A5:106:ILE:HG13	1.90	0.53
1:13:403:C:OP1	4:3E:137:SER:OG	2.20	0.53
1:13:501:C:OP1	12:3I:117:ARG:NH2	2.40	0.53
6:5E:35:ALA:HA	6:5E:67:MET:HB3	1.90	0.53
6:5E:78:GLU:O	6:5E:81:ILE:HG22	2.09	0.53
7:6E:15:ASP:HB3	7:6E:19:GLY:N	2.23	0.53
7:6E:51:GLN:HB2	7:6E:58:PRO:HD3	1.91	0.53
13:4I:3:ARG:HD3	13:4I:7:VAL:HA	1.91	0.53
26:1H:6:A:H1'	35:58:131:GLN:HB3	1.90	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:731:C:H2'	26:1H:732:C:H6	1.74	0.53
26:1H:1470:G:H5''	26:1H:1471:A:OP1	2.08	0.53
26:1H:2209:C:O2	26:1H:2216:G:C2	2.62	0.53
27:16:3:C:H2'	27:16:4:C:C6	2.44	0.53
28:71:28:LEU:HD12	28:71:31:GLU:OE2	2.09	0.53
45:F8:26:TYR:O	45:F8:81:VAL:HG12	2.09	0.53
1:1G:41:G:H2'	1:1G:42:G:C8	2.44	0.53
1:1G:560:U:O2'	1:1G:561:U:OP2	2.25	0.53
1:1G:737:A:H2'	1:1G:738:C:H6	1.74	0.53
1:1G:1031:G:H2'	1:1G:1032:A:C8	2.44	0.53
2:12:221:LEU:HA	2:12:223:ILE:HD12	1.91	0.53
5:42:144:THR:HG23	5:42:147:ASP:H	1.74	0.53
6:52:3:ARG:HG3	6:52:93:SER:HB2	1.91	0.53
8:72:55:GLY:C	8:72:56:LYS:HD3	2.33	0.53
20:BA:50:GLU:N	20:BA:100:ILE:HG12	2.23	0.53
26:14:1399:C:H2'	26:14:1400:G:C8	2.43	0.53
26:14:2250:G:C6	38:45:82:ARG:HD2	2.44	0.53
26:14:2360:A:H2'	26:14:2361:A:O4'	2.09	0.53
27:1J:57:A:H2'	27:1J:58:A:O4'	2.08	0.53
33:59:62:LYS:HA	33:59:65:HIS:HB3	1.91	0.53
43:95:44:LYS:C	43:95:46:VAL:H	2.15	0.53
1:13:232:G:H2'	1:13:233:C:C6	2.44	0.53
1:13:429:U:H1'	1:13:430:A:H5''	1.91	0.53
1:13:1006:C:H2'	1:13:1007:C:C6	2.43	0.53
2:1E:197:VAL:HG21	2:1E:200:ILE:HG12	1.90	0.53
8:7E:109:ILE:CG2	8:7E:137:VAL:HG23	2.36	0.53
13:4I:7:VAL:HB	32:41:115:ARG:HH22	1.72	0.53
26:1H:2750:A:H3'	33:51:4:ILE:HD12	1.91	0.53
26:1H:2863:C:O2'	26:1H:2864:G:H5'	2.08	0.53
35:58:128:HIS:HB2	35:58:129:PRO:HD2	1.91	0.53
36:68:68:GLU:CD	36:68:68:GLU:H	2.17	0.53
49:J8:81:LYS:N	49:J8:81:LYS:HD2	2.24	0.53
55:Q8:6:THR:HG22	55:Q8:62:LEU:HA	1.91	0.53
1:1G:297:G:N2	1:1G:300:A:OP2	2.41	0.53
1:1G:1244:C:OP2	21:1B:8:THR:OG1	2.27	0.53
26:14:828:U:H3	26:14:2247:A:H4'	1.73	0.53
26:14:1159:U:H2'	26:14:1160:G:H8	1.73	0.53
26:14:2275:C:C2	38:45:83:MET:HE3	2.44	0.53
26:14:2789:C:H1'	26:14:2892:A:C2	2.44	0.53
31:39:155:LEU:HB3	31:39:192:LEU:HD23	1.91	0.53
35:15:133:GLN:O	35:15:134:ARG:HG3	2.08	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:E5:50:ASN:C	48:E5:62:LEU:HD12	2.34	0.53
1:13:963:G:H5'	60:13:1837:HOH:O	2.08	0.53
5:4E:35:GLY:H	5:4E:112:LEU:HD13	1.72	0.53
19:AI:51:VAL:HG12	19:AI:52:TYR:H	1.74	0.53
26:1H:779:U:OP1	29:11:49:ILE:HG13	2.08	0.53
26:1H:1171:G:C5	26:1H:1174:A:C6	2.96	0.53
26:1H:1649:G:O2'	39:98:107:ASP:OD1	2.25	0.53
26:1H:1899:G:N2	26:1H:1902:C:C5	2.77	0.53
30:21:17:ASP:C	30:21:19:ARG:H	2.17	0.53
41:B8:30:VAL:HB	41:B8:86:ILE:HD13	1.90	0.53
47:H8:61:LEU:HB2	47:H8:62:PRO:HD2	1.91	0.53
1:1G:147:G:N2	1:1G:175:C:N3	2.49	0.53
1:1G:584:G:OP1	17:8A:91:ARG:NH2	2.42	0.53
1:1G:1147:C:O2	9:82:16:ARG:NH1	2.42	0.53
9:82:97:LYS:HD3	9:82:102:LEU:HB2	1.91	0.53
10:1A:13:HIS:HB3	10:1A:68:HIS:CE1	2.44	0.53
11:2A:18:ARG:HH21	11:2A:37:GLY:N	2.06	0.53
13:4A:19:LEU:HG	13:4A:25:ILE:HG21	1.91	0.53
22:1L:41:A:H2'	22:1L:42:A:O4'	2.09	0.53
26:14:1146:C:C2'	26:14:1147:C:H5'	2.39	0.53
26:14:2688:U:H2'	26:14:2719:G:N2	2.24	0.53
26:14:2779:U:H4'	26:14:2780:G:H5''	1.91	0.53
27:1J:15:A:H1'	27:1J:109:G:C5	2.44	0.53
29:19:6:PHE:CE1	29:19:18:VAL:HG23	2.44	0.53
30:29:54:GLN:HG2	30:29:72:VAL:HB	1.91	0.53
42:85:60:LEU:O	42:85:63:VAL:HG12	2.08	0.53
13:4I:3:ARG:HB2	13:4I:7:VAL:O	2.09	0.53
20:BI:50:GLU:HG2	20:BI:100:ILE:HD12	1.90	0.53
26:1H:1444:G:C2	26:1H:1548:C:N3	2.77	0.53
26:1H:1665:A:H1'	36:68:1:MET:HG3	1.90	0.53
26:1H:1835:G:N3	26:1H:1835:G:H2'	2.23	0.53
26:1H:2394:C:H2'	26:1H:2395:C:H6	1.75	0.53
26:1H:2693:A:H2'	26:1H:2694:G:H8	1.74	0.53
30:21:31:CYS:HB3	30:21:49:LEU:HG	1.91	0.53
40:A8:18:ILE:O	40:A8:21:THR:HG22	2.08	0.53
1:1G:309:G:O2'	1:1G:607:A:N1	2.42	0.53
1:1G:373:A:C2	1:1G:374:A:C8	2.96	0.53
16:7A:23:ASP:OD2	16:7A:25:ARG:NH1	2.42	0.53
26:14:303:U:H2'	26:14:304:G:H8	1.73	0.53
26:14:813:U:H2'	26:14:814:C:C6	2.44	0.53
26:14:814:C:P	43:95:83:ARG:HH11	2.31	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:987:G:O2'	26:14:1000:A:N3	2.39	0.53
26:14:1042:G:H2'	26:14:1043:C:O4'	2.09	0.53
26:14:1971:A:C4	29:19:241:PRO:HD3	2.44	0.53
30:29:201:THR:C	30:29:202:LYS:HZ2	2.17	0.53
32:49:118:ARG:H	32:49:118:ARG:HD2	1.74	0.53
33:59:154:PRO:HB3	33:59:162:ILE:O	2.08	0.53
38:45:66:ILE:HD12	38:45:67:ARG:N	2.24	0.53
39:55:55:ALA:HB2	39:55:79:LEU:CD1	2.39	0.53
40:65:100:ALA:HA	40:65:103:GLU:HG3	1.91	0.53
49:F5:29:GLY:O	49:F5:30:VAL:HG22	2.09	0.53
1:13:154:C:N4	1:13:167:G:H1	2.07	0.52
1:13:580:U:OP1	15:6I:54:ARG:NH2	2.42	0.52
1:13:682:G:H1	1:13:708:C:N4	2.07	0.52
1:13:756:C:H1'	8:7E:1:MET:HE2	1.90	0.52
1:13:1004:A:N1	1:13:1024:G:H2'	2.24	0.52
2:1E:11:LEU:HD23	2:1E:213:LEU:HD22	1.90	0.52
8:7E:104:ARG:O	8:7E:107:LEU:HB2	2.08	0.52
23:2K:30:G:H1	23:2K:42:C:N4	2.07	0.52
26:1H:270(L):U:C2	34:61:50:ARG:HG2	2.44	0.52
26:1H:270(L):U:N1	34:61:50:ARG:HG2	2.24	0.52
26:1H:286:C:H2'	26:1H:287:C:H6	1.74	0.52
26:1H:1493:C:N3	26:1H:2210:G:H1'	2.24	0.52
26:1H:2125:G:H21	26:1H:2173:A:N6	2.07	0.52
34:61:57:ARG:HG2	34:61:61:ARG:HH22	1.73	0.52
46:G8:89:PHE:CD1	46:G8:90:LEU:N	2.78	0.52
47:H8:5:LEU:HD23	47:H8:47:VAL:HG21	1.91	0.52
49:J8:83:GLU:HG3	49:J8:85:LEU:H	1.74	0.52
1:1G:143:A:H4'	1:1G:144:G:C8	2.44	0.52
1:1G:1113:C:H2'	1:1G:1114:C:C6	2.43	0.52
1:1G:1117:G:H4'	9:82:104:ARG:NH1	2.24	0.52
4:32:82:ALA:HB1	4:32:89:THR:HA	1.91	0.52
5:42:99:GLY:O	5:42:117:ASP:HA	2.08	0.52
6:52:62:TRP:CH2	6:52:64:GLN:HB2	2.44	0.52
9:82:24:GLY:N	9:82:60:ASP:OD1	2.42	0.52
10:1A:51:ARG:HB2	10:1A:59:SER:O	2.09	0.52
26:14:138:G:H22	45:B5:44:GLU:CD	2.17	0.52
26:14:247:G:H4'	26:14:386:G:C5	2.44	0.52
26:14:602:G:OP2	26:14:602:G:H8	1.92	0.52
26:14:824:A:H1'	26:14:2358:G:N7	2.24	0.52
28:79:6:ARG:O	28:79:10:LEU:HG	2.09	0.52
28:79:46:LYS:HB2	28:79:210:ARG:C	2.34	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:45:57:HIS:CG	38:45:117:ALA:HB2	2.43	0.52
42:85:92:ARG:CZ	43:95:11:GLN:H	2.22	0.52
45:B5:67:GLY:O	45:B5:69:TYR:N	2.34	0.52
46:C5:29:GLU:HG3	46:C5:30:VAL:H	1.73	0.52
1:13:149:A:O5'	1:13:149:A:H8	1.92	0.52
1:13:389:A:H2'	1:13:390:C:O4'	2.10	0.52
10:1I:37:PRO:HA	10:1I:72:VAL:HG22	1.91	0.52
10:1I:46:ARG:HB2	10:1I:46:ARG:HH11	1.74	0.52
22:1K:52:G:H2'	22:1K:53:G:H8	1.74	0.52
26:1H:35:G:H2'	26:1H:36:G:O4'	2.09	0.52
26:1H:863:A:H2'	26:1H:864:G:C8	2.44	0.52
26:1H:1173:G:H5'	26:1H:1174:A:C2	2.44	0.52
26:1H:1517:G:H2'	26:1H:1518:C:H6	1.73	0.52
26:1H:2266:A:H4'	26:1H:2267:A:N3	2.25	0.52
26:1H:2516:G:C6	26:1H:2517:C:N4	2.77	0.52
30:21:48:GLN:OE1	30:21:77:ILE:HG21	2.09	0.52
33:51:84:SER:O	33:51:85:LYS:HB2	2.09	0.52
37:78:15:ARG:O	37:78:16:ARG:C	2.51	0.52
40:A8:32:LEU:O	40:A8:62:LYS:NZ	2.39	0.52
45:F8:52:VAL:HG23	45:F8:82:GLN:HB3	1.90	0.52
46:G8:8:LYS:O	46:G8:27:VAL:HG11	2.09	0.52
46:G8:29:GLU:HB3	46:G8:38:ILE:HG23	1.90	0.52
46:G8:54:LYS:HG2	46:G8:55:TYR:H	1.74	0.52
46:G8:82:PRO:HB3	46:G8:99:CYS:HB2	1.91	0.52
1:1G:108:G:H5'	1:1G:109:A:C5'	2.38	0.52
1:1G:591:U:OP2	8:72:30:ARG:NH1	2.42	0.52
1:1G:922:G:N3	1:1G:1398:A:H2	2.07	0.52
1:1G:1321:C:H3'	1:1G:1322:C:H5''	1.91	0.52
1:1G:1343:G:H2'	1:1G:1344:C:C6	2.45	0.52
24:3L:3:G:H1	24:3L:70:C:H42	1.57	0.52
26:14:1131:G:OP2	26:14:2515:C:H4'	2.10	0.52
26:14:1259:G:H2'	26:14:1260:G:C8	2.44	0.52
26:14:1342:A:H2	26:14:1602:U:N3	2.07	0.52
26:14:1374:G:H2'	26:14:1375:C:H6	1.74	0.52
26:14:2416:C:H2'	26:14:2417:C:C6	2.44	0.52
26:14:2704:C:H2'	26:14:2705:A:O4'	2.09	0.52
49:F5:80:LEU:HD12	49:F5:82:LEU:HB2	1.91	0.52
1:13:310:G:P	16:7I:27:LYS:NZ	2.83	0.52
1:13:1028(A):C:H2'	1:13:1028(B):C:H5	1.73	0.52
1:13:1142:G:H2'	1:13:1143:G:O4'	2.09	0.52
2:1E:55:PHE:HD1	2:1E:221:LEU:HG	1.74	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:4E:71:LEU:HD13	5:4E:114:GLY:HA3	1.91	0.52
13:4I:31:LYS:H	13:4I:31:LYS:HD2	1.75	0.52
16:7I:22:THR:HA	16:7I:33:ILE:HG13	1.92	0.52
20:BI:67:ALA:HA	20:BI:72:LEU:O	2.09	0.52
20:BI:89:ARG:NH2	20:BI:104:LEU:HD11	2.24	0.52
22:1K:3:G:N2	22:1K:71:C:H1'	2.25	0.52
30:21:197:ILE:CD1	30:21:199:ARG:HE	2.20	0.52
1:1G:229:U:H2'	1:1G:230:G:C8	2.44	0.52
1:1G:362:G:O2'	12:3A:33:ARG:NH2	2.42	0.52
1:1G:855:G:OP2	1:1G:871:U:N3	2.39	0.52
1:1G:977:A:H2'	1:1G:978:A:H5'	1.91	0.52
7:62:116:ALA:O	7:62:120:ILE:HG12	2.09	0.52
9:82:58:HIS:HB3	9:82:59:PHE:CE1	2.45	0.52
26:14:118:A:N3	26:14:178:G:H1'	2.23	0.52
26:14:821:A:O2'	26:14:946:G:OP2	2.26	0.52
26:14:2138:C:H42	26:14:2153:G:H1	1.55	0.52
26:14:2812:G:N2	26:14:2889:C:O2	2.42	0.52
45:B5:63:LYS:HA	45:B5:72:LYS:HA	1.91	0.52
50:G5:63:VAL:HA	50:G5:66:GLU:HG2	1.92	0.52
55:M5:14:VAL:HG21	55:M5:58:ILE:CD1	2.39	0.52
1:13:99:C:H42	1:13:101:A:H62	1.56	0.52
3:2E:77:ILE:HA	3:2E:84:ILE:HB	1.91	0.52
3:2E:82:GLU:HA	3:2E:85:ARG:HB3	1.91	0.52
12:3I:47:LYS:HA	12:3I:49:ASN:H	1.74	0.52
18:9I:59:SER:HB3	18:9I:62:GLU:HG3	1.92	0.52
21:1F:6:ARG:HH11	21:1F:15:ARG:HE	1.57	0.52
23:2K:63:C:H2'	23:2K:64:G:C8	2.44	0.52
26:1H:671:C:OP1	37:78:42:SER:O	2.28	0.52
26:1H:2115:G:H2'	26:1H:2116:G:H8	1.73	0.52
26:1H:2135:A:N6	26:1H:2136:C:O2	2.41	0.52
26:1H:2243:U:H2'	26:1H:2244:U:C6	2.44	0.52
31:31:129:PHE:HA	31:31:142:TRP:CD1	2.44	0.52
31:31:192:LEU:HD21	31:31:194:MET:HE2	1.90	0.52
32:41:114:ILE:HG22	32:41:115:ARG:O	2.09	0.52
35:58:130:HIS:HA	35:58:134:ARG:HH22	1.74	0.52
47:H8:7:ALA:HB3	47:H8:61:LEU:HB3	1.91	0.52
48:I8:36:ILE:C	48:I8:36:ILE:HD12	2.34	0.52
1:1G:1153:C:H2'	1:1G:1154:G:O4'	2.09	0.52
19:AA:11:VAL:HG13	19:AA:39:THR:HB	1.92	0.52
25:4L:11:U:H2'	25:4L:12:A:H5''	1.91	0.52
26:14:6:A:H2'	26:14:6:A:N3	2.23	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:287:C:H2'	26:14:288:C:C6	2.44	0.52
26:14:925:C:H2'	26:14:926:A:H8	1.74	0.52
26:14:1372:U:H2'	26:14:1373:A:O4'	2.10	0.52
26:14:2023:G:H5'	26:14:2617:C:H4'	1.92	0.52
26:14:2882:A:OP1	39:55:96:ARG:NE	2.30	0.52
29:19:71:ASP:OD2	29:19:103:ARG:NH2	2.42	0.52
30:29:36:ARG:NH2	30:29:86:PRO:O	2.39	0.52
32:49:170:ARG:HH22	32:49:182:LYS:HD3	1.74	0.52
38:45:20:ALA:HA	38:45:99:PRO:HG2	1.92	0.52
1:13:264:U:O2	17:8I:64:PRO:HG2	2.10	0.52
1:13:1124:G:O2'	10:1I:38:ILE:HD12	2.10	0.52
1:13:1179:A:H4'	9:8E:103:THR:HA	1.92	0.52
1:13:1266:G:N2	1:13:1270:C:N3	2.57	0.52
9:8E:9:ARG:N	9:8E:9:ARG:HD2	2.24	0.52
11:2I:21:ILE:HD13	11:2I:94:ALA:HB1	1.91	0.52
18:9I:82:THR:HG22	18:9I:83:GLU:O	2.09	0.52
26:1H:274:G:H2'	26:1H:275:G:O4'	2.08	0.52
26:1H:859:G:H5'	26:1H:2268:A:O2'	2.09	0.52
26:1H:1051:G:C6	26:1H:1052:C:H1'	2.44	0.52
26:1H:1682:G:C2	26:1H:1683:C:C2	2.97	0.52
30:21:49:LEU:HD21	30:21:91:VAL:HG21	1.92	0.52
33:51:107:VAL:HG11	33:51:162:ILE:HD11	1.90	0.52
37:78:49:ARG:HH12	37:78:50:ARG:HH21	1.58	0.52
41:B8:51:ARG:HB2	41:B8:98:LYS:HD2	1.91	0.52
47:H8:59:LEU:O	47:H8:60:GLU:HB2	2.09	0.52
53:N8:16:ARG:NH1	53:N8:17:ASP:CG	2.68	0.52
1:1G:878:G:H5'	8:72:89:PRO:HG2	1.91	0.52
1:1G:1069:C:H42	1:1G:1106:G:H1	1.56	0.52
1:1G:1134:G:C2	1:1G:1135:U:H1'	2.44	0.52
1:1G:1151:A:H4'	10:1A:39:PRO:HB2	1.92	0.52
4:32:98:GLU:OE2	4:32:103:ASN:ND2	2.37	0.52
5:42:8:GLU:HG2	5:42:34:VAL:HG23	1.90	0.52
9:82:51:ARG:HG2	9:82:56:LEU:HD13	1.92	0.52
10:1A:37:PRO:HA	10:1A:72:VAL:HG22	1.90	0.52
11:2A:46:GLY:HA2	11:2A:50:TYR:O	2.09	0.52
11:2A:85:ARG:HD3	11:2A:113:PRO:HD3	1.92	0.52
12:3A:84:LEU:HG	12:3A:105:TYR:HE2	1.74	0.52
17:8A:86:GLU:O	17:8A:90:ILE:HG12	2.09	0.52
20:BA:25:ARG:O	20:BA:29:LYS:HG2	2.10	0.52
26:14:90:U:O2'	26:14:91:A:O5'	2.28	0.52
26:14:588:U:H1'	31:39:90:PHE:CB	2.40	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1174:A:H2'	26:14:1176:G:OP1	2.09	0.52
26:14:2577:A:H5'	53:J5:3:LYS:HD3	1.91	0.52
27:1J:16:G:H2'	27:1J:17:C:H6	1.74	0.52
30:29:57:LYS:HZ2	30:29:57:LYS:H	1.56	0.52
34:69:14:ASP:OD1	34:69:15:VAL:N	2.42	0.52
35:15:128:HIS:HB2	35:15:129:PRO:HD2	1.90	0.52
36:25:120:GLU:HB2	41:75:68:TYR:HE2	1.74	0.52
42:85:50:ARG:HH12	43:95:72:VAL:HG23	1.73	0.52
43:95:7:THR:HG23	43:95:22:VAL:HG21	1.91	0.52
45:B5:75:ASP:C	45:B5:76:ARG:HG3	2.33	0.52
1:13:103:C:C2	1:13:104:G:C8	2.98	0.52
1:13:468:A:O2'	16:7I:81:ARG:HA	2.09	0.52
1:13:821:G:H5''	60:13:1938:HOH:O	2.10	0.52
1:13:953:G:H5'	1:13:965:A:H61	1.75	0.52
1:13:1006:C:H2'	1:13:1007:C:H6	1.75	0.52
2:1E:23:ARG:NH2	2:1E:191:ASP:OD1	2.43	0.52
17:8I:75:ARG:NH1	17:8I:76:LEU:O	2.43	0.52
29:11:40:THR:HG23	29:11:41:GLY:N	2.24	0.52
37:78:71:VAL:CG1	37:78:72:PRO:HD3	2.40	0.52
47:H8:61:LEU:HD22	47:H8:67:LEU:HD12	1.92	0.52
51:L8:8:LEU:HD22	51:L8:31:LEU:HD22	1.91	0.52
1:1G:396:G:O2'	1:1G:398:C:OP1	2.13	0.52
7:62:26:PHE:O	7:62:30:ILE:HG13	2.09	0.52
24:3L:29:U:H2'	24:3L:30:G:O4'	2.09	0.52
26:14:718:A:H3'	26:14:719:C:H6	1.75	0.52
26:14:2074:U:H2'	26:14:2075:U:C6	2.44	0.52
26:14:2542:A:C8	26:14:2544:G:O6	2.62	0.52
31:39:38:ARG:NH2	31:39:99:TYR:CZ	2.58	0.52
31:39:78:ILE:HA	31:39:83:PHE:CD2	2.45	0.52
34:69:102:SER:O	34:69:106:GLY:N	2.42	0.52
41:75:112:ARG:HD2	41:75:113:LYS:HD2	1.91	0.52
1:13:912:C:O2'	1:13:913:A:H5'	2.10	0.52
1:13:1369:C:H2'	1:13:1370:G:C8	2.45	0.52
26:1H:309:G:H4'	46:G8:18:GLY:HA2	1.91	0.52
26:1H:2811:G:OP1	30:21:60:ASN:HB2	2.10	0.52
29:11:231:HIS:HD2	29:11:249:PRO:HA	1.73	0.52
31:31:20:LEU:HD12	31:31:21:ALA:N	2.25	0.52
31:31:64:ILE:HG22	31:31:65:TRP:CD1	2.44	0.52
32:41:16:ARG:HH21	32:41:31:VAL:CG2	2.23	0.52
32:41:67:LYS:HD2	32:41:67:LYS:H	1.75	0.52
34:61:112:LYS:HB2	34:61:113:ARG:HG3	1.91	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:631:G:H1'	1:1G:632:A:N7	2.23	0.52
1:1G:902:G:O2'	1:1G:903:G:H5'	2.10	0.52
1:1G:1106:G:H2'	1:1G:1107:C:H6	1.75	0.52
1:1G:1179:A:OP2	9:82:93:ARG:NH2	2.42	0.52
1:1G:1190:G:H4'	3:22:176:HIS:CE1	2.45	0.52
1:1G:1298:C:C5	7:62:114:ARG:HD3	2.43	0.52
1:1G:1347:G:N1	1:1G:1374:A:OP2	2.37	0.52
2:12:42:ILE:HG21	2:12:202:PRO:HB2	1.91	0.52
12:3A:28:LYS:HD3	12:3A:33:ARG:HH12	1.74	0.52
15:6A:25:THR:HG21	15:6A:70:LEU:HB2	1.92	0.52
23:2L:16:C:O2'	23:2L:62:C:OP1	2.23	0.52
26:14:270(H):C:H2'	26:14:270(I):G:C8	2.45	0.52
26:14:329:G:O6	46:C5:19:LYS:HE2	2.09	0.52
26:14:1901:A:OP2	29:19:255:LYS:HE2	2.10	0.52
27:1J:16:G:H2'	27:1J:17:C:C6	2.45	0.52
34:69:38:LEU:H	34:69:38:LEU:HD12	1.74	0.52
35:15:13:TRP:HB2	35:15:133:GLN:HB2	1.92	0.52
38:45:25:ASP:HA	38:45:67:ARG:NH1	2.25	0.52
38:45:38:GLU:HG3	38:45:127:ILE:CG2	2.40	0.52
39:55:78:LYS:O	39:55:82:GLU:HG2	2.09	0.52
1:13:114:U:H2'	1:13:115:G:C8	2.45	0.52
1:13:573:A:H5'	1:13:573:A:C8	2.36	0.52
2:1E:52:GLU:HG2	2:1E:56:ARG:HD3	1.92	0.52
26:1H:325:G:O2'	26:1H:326:G:H5'	2.10	0.52
26:1H:565:C:O3'	60:1H:3554:HOH:O	2.19	0.52
26:1H:2248:C:H2'	26:1H:2249:U:O4'	2.10	0.52
26:1H:2272:U:H5''	26:1H:2273:A:OP1	2.10	0.52
26:1H:2306:C:H3'	26:1H:2307:G:C5'	2.39	0.52
26:1H:2591:C:H2'	26:1H:2592:G:C8	2.44	0.52
26:1H:2629:A:OP1	26:1H:2629:A:H4'	2.10	0.52
27:16:11:C:H3'	27:16:12:C:H6	1.74	0.52
30:21:52:LEU:HD23	30:21:53:PRO:HD2	1.92	0.52
32:41:37:VAL:O	32:41:94:LEU:HD23	2.10	0.52
38:88:66:ILE:HD12	38:88:67:ARG:H	1.73	0.52
40:A8:106:ARG:HD2	40:A8:107:GLU:HG2	1.91	0.52
1:1G:228:A:H4'	16:7A:62:VAL:HG11	1.92	0.52
1:1G:1179:A:H2'	1:1G:1180:A:O4'	2.09	0.52
4:32:150:GLU:C	4:32:152:SER:H	2.18	0.52
5:42:12:LEU:HD22	5:42:13:ILE:H	1.74	0.52
8:72:49:GLU:OE1	8:72:51:VAL:HG22	2.10	0.52
18:9A:25:THR:HG22	18:9A:42:ARG:NH2	2.24	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1B:9:ARG:HA	21:1B:22:ARG:HB2	1.91	0.52
26:14:1771:C:H1'	26:14:1786:A:C8	2.45	0.52
26:14:1952:A:C6	36:25:22:ILE:HD12	2.44	0.52
26:14:2108:C:H2'	26:14:2109:U:O4'	2.10	0.52
26:14:2607:G:H2'	26:14:2608:G:O4'	2.10	0.52
26:14:2708:G:H5'	39:55:68:ARG:HG2	1.90	0.52
30:29:117:MET:HB2	30:29:122:PHE:O	2.10	0.52
32:49:59:GLU:OE1	32:49:153:ARG:CZ	2.58	0.52
32:49:77:ILE:HG23	32:49:79:ASN:OD1	2.10	0.52
1:13:272:C:H2'	1:13:273:A:C8	2.44	0.52
1:13:507:C:OP2	1:13:508:C:O2'	2.23	0.52
1:13:1292:U:H2'	1:13:1293:G:C8	2.45	0.52
12:3I:58:VAL:O	12:3I:65:GLU:HA	2.10	0.52
13:4I:15:VAL:O	13:4I:19:LEU:HG	2.09	0.52
19:AI:40:ILE:HD11	19:AI:62:ILE:HD12	1.92	0.52
22:1K:72:C:H2'	22:1K:73:A:H5''	1.91	0.52
24:3K:54:U:H2'	24:3K:55:U:C2	2.45	0.52
26:1H:511:U:C5	26:1H:512:G:C5	2.97	0.52
26:1H:582:G:H2'	26:1H:583:G:C8	2.44	0.52
26:1H:613:U:O2	26:1H:613:U:O4'	2.27	0.52
26:1H:1591:G:H2'	26:1H:1592:C:C6	2.45	0.52
26:1H:1688:U:H2'	26:1H:1698:A:N6	2.25	0.52
28:71:10:LEU:HD13	28:71:32:LEU:HA	1.91	0.52
34:61:79:ILE:HD11	34:61:100:ALA:HB2	1.91	0.52
36:68:75:SER:HB2	41:B8:74:ARG:HH12	1.75	0.52
40:A8:103:GLU:O	40:A8:106:ARG:NE	2.23	0.52
41:B8:50:ILE:HG22	41:B8:62:THR:OG1	2.10	0.52
43:D8:65:GLY:N	43:D8:91:TYR:O	2.36	0.52
45:F8:34:ALA:HA	45:F8:38:GLU:OE1	2.10	0.52
47:H8:150:LEU:HD22	47:H8:171:ILE:HD12	1.91	0.52
50:K8:41:ILE:HD13	50:K8:44:LEU:HD23	1.91	0.52
1:1G:1028(B):C:H41	1:1G:1032(B):G:H1	1.58	0.52
1:1G:1224:G:C6	1:1G:1322:C:H1'	2.45	0.52
1:1G:1260:C:H3'	1:1G:1260:C:H6	1.74	0.52
4:32:12:CYS:SG	4:32:18:LYS:HA	2.50	0.52
4:32:107:ARG:HH12	4:32:194:LEU:HB3	1.75	0.52
6:52:33:TYR:CE1	6:52:78:GLU:HG3	2.45	0.52
12:3A:39:VAL:CG1	12:3A:41:ARG:NH2	2.63	0.52
13:4A:56:LEU:HA	13:4A:59:TYR:HB3	1.92	0.52
24:3L:27:G:N2	24:3L:45:G:H22	2.08	0.52
26:14:61:G:H5'	50:G5:50:ILE:HG12	1.92	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:639:U:O2'	26:14:640:C:H5'	2.10	0.52
26:14:721:C:H2'	26:14:722:A:C8	2.44	0.52
26:14:878:A:N1	26:14:899:A:H2	2.07	0.52
26:14:960:A:H2'	26:14:962:G:H5'	1.91	0.52
26:14:2766:G:H5''	26:14:2767:C:OP2	2.10	0.52
31:39:25:PRO:CB	31:39:27:GLU:H	2.19	0.52
35:15:7:LYS:O	35:15:9:VAL:HG13	2.10	0.52
1:13:1218:C:H2'	1:13:1219:U:H6	1.75	0.52
1:13:1292:U:H2'	1:13:1293:G:H8	1.74	0.52
2:1E:68:ILE:O	2:1E:91:PRO:HD2	2.09	0.52
4:3E:112:VAL:HG12	4:3E:116:GLN:OE1	2.10	0.52
15:6I:18:PHE:CE1	15:6I:21:ASP:HB2	2.45	0.52
26:1H:1430:C:H2'	26:1H:1431:U:H6	1.74	0.52
26:1H:2306:C:H3'	26:1H:2307:G:H5'	1.92	0.52
26:1H:2310:A:C8	32:41:77:ILE:HD11	2.45	0.52
26:1H:2572:A:H62	30:21:145:LYS:HD3	1.75	0.52
26:1H:2640:G:OP1	35:58:74:ARG:NH1	2.43	0.52
29:11:124:PRO:HG2	29:11:129:ASN:ND2	2.24	0.52
37:78:80:TYR:CE1	37:78:111:ARG:HD3	2.45	0.52
46:G8:55:TYR:CE1	46:G8:61:ILE:HD11	2.45	0.52
46:G8:93:GLY:O	46:G8:94:LYS:HB2	2.09	0.52
1:1G:147:G:H1	1:1G:175:C:N4	1.98	0.52
1:1G:503:C:OP2	12:3A:116:SER:HB3	2.10	0.52
1:1G:1244:C:O2	1:1G:1293:G:N2	2.42	0.52
2:12:12:GLU:OE2	2:12:15:VAL:N	2.43	0.52
2:12:165:VAL:HG23	2:12:166:ASP:H	1.75	0.52
3:22:141:VAL:HA	3:22:144:SER:HB3	1.91	0.52
21:1B:2:GLY:O	21:1B:4:GLY:N	2.43	0.52
26:14:71:A:H5''	26:14:73:A:C8	2.45	0.52
26:14:629:G:H1	26:14:634:C:N4	2.06	0.52
26:14:1142(A):A:N7	26:14:1144:G:C5	2.78	0.52
26:14:2317:C:H2'	26:14:2318:G:O4'	2.09	0.52
29:19:273:ARG:O	29:19:273:ARG:HG2	2.10	0.52
30:29:3:GLY:HA3	30:29:81:ILE:HD12	1.91	0.52
38:45:43:THR:HG22	38:45:94:VAL:HG12	1.91	0.52
40:65:30:ARG:HG3	40:65:35:ILE:HD12	1.92	0.52
45:B5:63:LYS:CD	45:B5:63:LYS:H	2.23	0.52
49:F5:19:GLN:HB3	49:F5:35:THR:O	2.10	0.52
49:F5:89:GLU:O	49:F5:93:GLU:HB2	2.10	0.52
1:13:1390:U:H2'	1:13:1391:U:C6	2.45	0.51
2:1E:11:LEU:C	2:1E:13:ALA:N	2.66	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:4E:152:ARG:HA	8:7E:64:LYS:HE2	1.91	0.51
6:5E:67:MET:HE1	6:5E:75:LEU:HG	1.92	0.51
12:3I:8:ASN:O	12:3I:12:ARG:HG3	2.09	0.51
20:BI:46:GLU:HB3	20:BI:48:LYS:HG3	1.91	0.51
23:2K:19:G:C2	23:2K:59:A:C5	2.98	0.51
26:1H:141(A):C:H2'	26:1H:142:G:O4'	2.10	0.51
26:1H:569:U:C4	26:1H:570:G:C6	2.98	0.51
34:61:72:LEU:HD11	34:61:107:VAL:HG11	1.92	0.51
34:61:93:THR:O	34:61:97:ILE:HG13	2.10	0.51
42:C8:58:ARG:HA	42:C8:61:TRP:CE3	2.45	0.51
42:C8:69:CYS:SG	42:C8:79:PHE:HD2	2.32	0.51
53:N8:40:LYS:HE2	53:N8:47:PRO:HD2	1.93	0.51
53:N8:40:LYS:HE2	53:N8:46:CYS:HA	1.92	0.51
1:1G:49:U:O4'	12:3A:28:LYS:NZ	2.41	0.51
1:1G:317:G:H1	1:1G:336:C:N4	2.07	0.51
1:1G:641:U:H4'	8:72:115:SER:O	2.09	0.51
1:1G:1151:A:OP1	10:1A:42:THR:N	2.40	0.51
1:1G:1226:C:HO2'	13:4A:111:LYS:HZ3	1.53	0.51
1:1G:1502:A:H5''	1:1G:1504:G:N7	2.24	0.51
3:22:26:LYS:HG3	3:22:27:LYS:N	2.24	0.51
22:1L:76:A:H2	23:2L:77:A:H4'	1.75	0.51
23:2L:41:C:H2'	23:2L:42:C:H6	1.74	0.51
24:3L:8:U:H5'	24:3L:49:G:H5'	1.91	0.51
26:14:1027:A:H2	26:14:2487:G:O2'	1.93	0.51
26:14:1332:G:N2	26:14:1610:A:C8	2.78	0.51
26:14:1462:C:H4'	26:14:2703:C:H5'	1.92	0.51
26:14:1688:U:O2	26:14:1700:A:H5'	2.09	0.51
26:14:1909:C:H2'	26:14:1910:G:H8	1.76	0.51
26:14:2134:A:C5	26:14:2158:A:H8	2.27	0.51
26:14:2273:A:H2'	26:14:2274:A:C8	2.46	0.51
26:14:2275:C:H5'	26:14:2275:C:H6	1.75	0.51
26:14:2438:U:O3'	26:14:2439:A:H3'	2.10	0.51
32:49:102:PHE:O	32:49:106:LEU:N	2.41	0.51
37:35:52:GLU:HG2	37:35:53:GLY:N	2.24	0.51
38:45:4:PRO:HD3	38:45:70:PRO:O	2.09	0.51
39:55:104:ARG:HD2	39:55:109:ALA:HB3	1.92	0.51
42:85:98:LEU:HA	42:85:100:VAL:O	2.09	0.51
43:95:76:LYS:HB2	43:95:79:VAL:HG23	1.91	0.51
46:C5:43:ASN:HB2	46:C5:62:GLU:O	2.10	0.51
1:13:244:U:H4'	1:13:245:C:O5'	2.10	0.51
1:13:580:U:P	15:6I:54:ARG:HH21	2.33	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1112:C:H1'	3:2E:179:ARG:HH11	1.75	0.51
5:4E:15:ARG:HG3	5:4E:26:PHE:HD2	1.75	0.51
12:3I:89:ARG:NH2	12:3I:91:LYS:HD2	2.25	0.51
13:4I:81:LEU:HD11	13:4I:88:ARG:NH1	2.25	0.51
16:7I:19:ILE:HB	16:7I:36:ILE:O	2.10	0.51
26:1H:934:G:H2'	26:1H:935:C:C6	2.44	0.51
26:1H:1025:G:C4	26:1H:1135:C:H1'	2.45	0.51
28:71:59:ARG:HG2	28:71:60:GLY:H	1.75	0.51
28:71:200:LYS:HG2	28:71:201:PRO:O	2.10	0.51
34:61:77:LEU:HD12	34:61:140:LEU:HB3	1.93	0.51
35:58:76:SER:N	35:58:81:GLY:O	2.44	0.51
43:D8:17:GLY:N	43:D8:96:ILE:O	2.34	0.51
1:1G:707:C:OP1	11:2A:85:ARG:NH1	2.44	0.51
1:1G:1079:G:H5''	5:42:45:PHE:HZ	1.75	0.51
1:1G:1244:C:H2'	1:1G:1245:A:C8	2.45	0.51
1:1G:1348:U:N3	1:1G:1374:A:H2	1.99	0.51
5:42:84:PHE:N	5:42:87:SER:O	2.38	0.51
12:3A:58:VAL:O	12:3A:65:GLU:HA	2.11	0.51
26:14:528:A:C2	26:14:2042:A:H2'	2.45	0.51
26:14:631:A:H2'	26:14:632:A:O4'	2.10	0.51
26:14:1050:A:N7	26:14:1051:G:N2	2.59	0.51
26:14:1568:G:OP2	29:19:63:ARG:NH2	2.43	0.51
26:14:2175:C:N4	26:14:2176:A:N7	2.59	0.51
26:14:2712:U:H1'	26:14:2712(A):A:C8	2.45	0.51
30:29:54:GLN:HE21	30:29:72:VAL:HA	1.74	0.51
31:39:7:TYR:CE2	31:39:10:PRO:HG3	2.44	0.51
40:65:62:LYS:HD2	40:65:97:ARG:HD2	1.92	0.51
41:75:3:ARG:NE	41:75:6:LEU:HD13	2.26	0.51
1:13:540:G:H2'	1:13:541:G:O4'	2.08	0.51
6:5E:89:MET:HE3	18:9I:76:LEU:CD2	2.40	0.51
10:1I:16:LEU:HD12	10:1I:68:HIS:HB2	1.90	0.51
18:9I:56:THR:HB	18:9I:58:LEU:HD13	1.93	0.51
19:AI:5:LEU:HB2	19:AI:8:GLY:HA3	1.92	0.51
24:3K:48:C:H5	24:3K:59:A:C6	2.29	0.51
26:1H:710:G:H2'	26:1H:711:G:H8	1.75	0.51
26:1H:881:G:H2'	26:1H:881:G:N3	2.26	0.51
26:1H:1127:A:O2'	26:1H:2518:A:OP1	2.26	0.51
26:1H:2103:C:H2'	26:1H:2104:G:C8	2.46	0.51
26:1H:2543:G:H2'	26:1H:2544:G:C8	2.45	0.51
26:1H:2873:A:C2	39:98:5:LYS:HB2	2.45	0.51
27:16:44:G:OP1	52:M8:1:MET:HE3	2.04	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:153:LYS:HB2	33:51:155:SER:N	2.23	0.51
34:61:37:VAL:HG11	34:61:43:ASN:ND2	2.25	0.51
34:61:64:GLU:O	34:61:67:ARG:HB2	2.10	0.51
40:A8:69:VAL:HA	40:A8:72:ALA:HB3	1.92	0.51
49:J8:87:PRO:O	49:J8:91:LYS:HB2	2.11	0.51
1:1G:222:U:C2	1:1G:223:U:C5	2.98	0.51
2:12:217:ARG:C	2:12:219:VAL:H	2.18	0.51
4:32:88:VAL:HA	5:42:97:GLY:HA3	1.91	0.51
5:42:12:LEU:HD22	5:42:13:ILE:N	2.25	0.51
5:42:33:VAL:HG21	5:42:109:ILE:HG12	1.92	0.51
13:4A:17:VAL:O	13:4A:20:THR:OG1	2.20	0.51
26:14:321:G:OP1	31:39:135:LYS:NZ	2.38	0.51
26:14:962:G:H2'	26:14:963:U:C6	2.46	0.51
26:14:2512:C:H4'	30:29:122:PHE:CE2	2.45	0.51
26:14:2748:A:H2	33:59:63:SER:HB2	1.75	0.51
27:1J:78:A:H61	27:1J:98:G:H1'	1.75	0.51
30:29:120:TRP:CE3	30:29:155:LYS:HD3	2.45	0.51
33:59:68:THR:HA	33:59:71:LEU:HD22	1.91	0.51
41:75:118:ARG:NH2	41:75:121:ILE:HG21	2.25	0.51
1:13:1320:C:N4	19:AI:36:ARG:HG3	2.25	0.51
2:1E:83:MET:HA	2:1E:86:GLU:OE2	2.10	0.51
5:4E:35:GLY:HA3	5:4E:112:LEU:O	2.09	0.51
26:1H:910:A:C8	38:88:13:GLN:HG3	2.46	0.51
26:1H:1221:C:H2'	26:1H:1222:C:H6	1.75	0.51
26:1H:2364:C:H2'	26:1H:2365:G:O4'	2.11	0.51
26:1H:2477:C:H2'	26:1H:2529:G:O6	2.10	0.51
26:1H:2636:U:OP1	30:21:79:ARG:HA	2.09	0.51
31:31:184:TYR:CE1	37:78:3:LEU:HD11	2.45	0.51
44:E8:59:VAL:HG23	44:E8:60:ASN:H	1.75	0.51
1:1G:630:G:H3'	1:1G:631:G:H5'	1.92	0.51
2:12:118:LEU:HD13	2:12:142:LEU:HD12	1.93	0.51
7:62:27:ILE:HA	7:62:30:ILE:HD12	1.92	0.51
26:14:414:C:O2	26:14:1864:U:O2'	2.28	0.51
26:14:548:A:C6	26:14:549:G:H1'	2.45	0.51
26:14:1005:C:O2'	35:15:28:THR:HG23	2.10	0.51
26:14:1927:A:H2'	26:14:1928:A:C8	2.45	0.51
26:14:2137:C:H2'	26:14:2138:C:H6	1.76	0.51
26:14:2271:G:H2'	26:14:2272:U:C6	2.45	0.51
30:29:61:ARG:HA	30:29:63:LEU:HD23	1.92	0.51
31:39:164:ARG:O	31:39:167:ALA:HB3	2.11	0.51
31:39:183:VAL:O	31:39:187:VAL:HG23	2.10	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:55:37:THR:OG1	39:55:40:LYS:NZ	2.43	0.51
47:D5:7:ALA:O	47:D5:8:TYR:CG	2.64	0.51
47:D5:23:LYS:HD3	47:D5:40:ASP:HA	1.91	0.51
1:13:153:C:H42	1:13:168:G:N2	2.09	0.51
1:13:317:G:H1	1:13:336:C:N4	2.09	0.51
1:13:1347:G:N2	1:13:1373:G:H2'	2.26	0.51
24:3K:29:U:H2'	24:3K:30:G:H8	1.76	0.51
26:1H:278:A:H5'	26:1H:279:C:C5	2.45	0.51
26:1H:1443:G:H2'	26:1H:1444:G:C8	2.44	0.51
26:1H:1486:A:H2'	26:1H:1487:G:H8	1.74	0.51
26:1H:1675:C:N3	30:21:128:SER:OG	2.41	0.51
26:1H:2475:C:H1'	26:1H:2477:C:C5	2.43	0.51
26:1H:2685:G:OP2	41:B8:51:ARG:NH2	2.44	0.51
40:A8:37:ALA:HB2	40:A8:101:LEU:HD21	1.92	0.51
48:I8:11:ARG:NH1	48:I8:11:ARG:HB2	2.26	0.51
1:1G:665:A:H2'	1:1G:732:C:O2	2.10	0.51
1:1G:1505:G:H4'	1:1G:1506:U:H5''	1.92	0.51
4:32:166:LYS:HA	4:32:178:VAL:HG11	1.92	0.51
9:82:10:ARG:HD3	9:82:11:LYS:HB2	1.92	0.51
26:14:241:A:H8	26:14:241:A:OP1	1.93	0.51
26:14:1796:U:H2'	26:14:1797:C:C6	2.45	0.51
26:14:2104:G:H1	26:14:2185:C:H42	1.57	0.51
26:14:2464:C:H2'	26:14:2465:C:O4'	2.10	0.51
26:14:2873:A:C8	39:55:5:LYS:HA	2.46	0.51
28:79:50:ASP:OD1	28:79:52:ARG:HB3	2.11	0.51
31:39:107:LYS:HD3	31:39:206:ILE:HG22	1.92	0.51
33:59:152:ARG:HG3	33:59:153:LYS:HG3	1.92	0.51
37:35:113:LYS:HB2	37:35:129:ALA:HB3	1.92	0.51
39:55:13:HIS:CE1	39:55:15:SER:HB3	2.46	0.51
1:13:8:A:N6	4:3E:205:GLU:O	2.43	0.51
1:13:280:C:O2	17:8I:38:ARG:HG3	2.11	0.51
1:13:675:A:H1'	11:2I:116:HIS:CD2	2.46	0.51
1:13:917:G:H2'	1:13:918:A:H8	1.76	0.51
3:2E:76:VAL:HG21	3:2E:103:VAL:HG21	1.93	0.51
5:4E:65:ASN:OD1	5:4E:140:ARG:NH2	2.42	0.51
12:3I:53:ARG:NH1	12:3I:92:ASP:OD1	2.43	0.51
26:1H:270(K):C:H1'	26:1H:270(N):G:H1	1.76	0.51
26:1H:910:A:N1	26:1H:2277:G:H1'	2.25	0.51
26:1H:1387:C:O2	26:1H:1388:G:C8	2.64	0.51
26:1H:1470:G:N2	26:1H:1522:G:OP2	2.34	0.51
32:41:173:LEU:HB3	32:41:178:PHE:CD2	2.45	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:B8:74:ARG:HD3	41:B8:76:PHE:CZ	2.45	0.51
46:G8:38:ILE:CD1	46:G8:64:GLU:O	2.58	0.51
1:1G:449:C:H5	16:7A:42:ARG:NH1	2.09	0.51
2:12:101:MET:HB2	2:12:102:LEU:HD12	1.92	0.51
8:72:17:THR:HB	8:72:18:ARG:NH1	2.26	0.51
26:14:270(S):G:OP1	49:F5:76:ARG:NH2	2.44	0.51
26:14:1159:U:H2'	26:14:1160:G:C8	2.46	0.51
26:14:1771:C:C1'	26:14:1786:A:H8	2.23	0.51
26:14:2232:U:OP1	49:F5:40:ARG:NH2	2.44	0.51
31:39:131:GLY:H	31:39:142:TRP:HB2	1.75	0.51
32:49:44:GLY:HA2	32:49:47:LYS:HG3	1.93	0.51
35:15:91:LEU:CD2	35:15:98:VAL:HG11	2.40	0.51
40:65:24:LEU:HB2	40:65:85:VAL:HG12	1.93	0.51
46:C5:62:GLU:OE1	46:C5:64:GLU:HG3	2.10	0.51
50:G5:53:LEU:O	50:G5:57:ILE:HG13	2.11	0.51
1:13:129(A):G:N2	1:13:188:U:HO2'	2.06	0.51
1:13:359:U:OP1	34:69:87:LYS:HE3	2.11	0.51
1:13:875:C:O2	8:7E:15:ASN:ND2	2.43	0.51
1:13:964:A:N3	1:13:969:A:O2'	2.41	0.51
1:13:1289:A:H5'	21:1F:10:ARG:HH22	1.75	0.51
1:13:1319:A:O2'	19:AI:3:ARG:HD3	2.11	0.51
9:8E:65:VAL:HG21	9:8E:73:GLN:HB3	1.92	0.51
13:4I:9:ILE:HG22	13:4I:10:PRO:O	2.10	0.51
17:8I:10:VAL:HG13	17:8I:19:VAL:HB	1.92	0.51
18:9I:66:LEU:HD21	18:9I:70:ILE:HD11	1.92	0.51
26:1H:270(I):G:H1	26:1H:270(Q):C:H42	1.58	0.51
26:1H:845:G:H8	26:1H:845:G:OP2	1.94	0.51
31:31:63:LYS:HG2	31:31:65:TRP:O	2.09	0.51
31:31:160:ASN:OD1	31:31:163:VAL:HG23	2.11	0.51
40:A8:14:VAL:O	40:A8:18:ILE:HD13	2.11	0.51
42:C8:109:LEU:HD21	43:D8:47:VAL:HG21	1.93	0.51
1:1G:750:G:C2	15:6A:23:GLY:HA3	2.45	0.51
1:1G:1014:A:P	1:1G:1014:A:H8	2.33	0.51
1:1G:1022:G:C6	1:1G:1023:G:C8	2.98	0.51
3:22:18:TRP:CD1	14:5A:55:GLY:H	2.29	0.51
4:32:4:TYR:HE2	4:32:11:LEU:HD21	1.75	0.51
16:7A:67:THR:HG22	16:7A:68:ASP:H	1.75	0.51
22:1L:33:U:H2'	22:1L:35:U:OP2	2.11	0.51
23:2L:26:C:H2'	23:2L:27:G:O4'	2.10	0.51
26:14:747:U:O2	26:14:2014:A:H1'	2.10	0.51
26:14:1607:C:H4'	26:14:1608:A:O5'	2.11	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1685:C:H2'	26:14:1686:C:C6	2.45	0.51
26:14:2176:A:O2'	26:14:2177:C:H5'	2.11	0.51
26:14:2343:C:HO2'	26:14:2373:G:HO2'	1.54	0.51
27:1J:88:C:H3'	27:1J:89:G:N7	2.25	0.51
1:13:826:C:H2'	1:13:827:U:O2	2.11	0.51
1:13:827:U:C5	1:13:872:A:N1	2.78	0.51
4:3E:110:PHE:HE2	4:3E:148:VAL:HG23	1.76	0.51
6:5E:70:ASP:OD1	6:5E:70:ASP:N	2.43	0.51
7:6E:15:ASP:HB3	7:6E:19:GLY:H	1.76	0.51
16:7I:51:VAL:HG12	16:7I:52:ASP:O	2.11	0.51
26:1H:1138:G:H21	35:58:106:MET:CE	2.17	0.51
26:1H:1278:A:H4'	39:98:34:ILE:HD11	1.92	0.51
26:1H:1374:G:H2'	26:1H:1375:C:H6	1.76	0.51
26:1H:2725:A:C4	26:1H:2727:G:C8	2.99	0.51
28:71:10:LEU:HB3	28:71:32:LEU:HG	1.93	0.51
33:51:24:VAL:HG22	33:51:35:VAL:HB	1.92	0.51
37:78:39:LYS:CB	37:78:45:LEU:CD1	2.89	0.51
37:78:50:ARG:HD3	55:Q8:7:HIS:HD2	1.75	0.51
38:88:134:ARG:HH12	47:H8:122:ARG:HD2	1.75	0.51
42:C8:8:VAL:HG23	42:C8:11:ARG:NH2	2.22	0.51
44:E8:12:ILE:HG12	44:E8:13:SER:N	2.24	0.51
1:1G:750:G:H1'	15:6A:22:THR:OG1	2.11	0.51
1:1G:1007:C:H2'	1:1G:1008:C:O4'	2.11	0.51
2:12:24:TRP:HA	2:12:191:ASP:HA	1.91	0.51
2:12:208:ILE:HA	2:12:211:ILE:HG22	1.92	0.51
4:32:107:ARG:HD3	4:32:173:TRP:CZ2	2.45	0.51
8:72:86:ILE:HG12	8:72:135:CYS:HA	1.93	0.51
20:BA:64:ASP:OD1	20:BA:81:LYS:HD2	2.10	0.51
24:3L:2:G:H2'	24:3L:3:G:H8	1.76	0.51
26:14:323:G:H2'	31:39:169:ASN:ND2	2.26	0.51
26:14:1537:C:O2'	26:14:1538:G:O4'	2.17	0.51
26:14:1950:G:C2	26:14:1951:U:C5	2.98	0.51
31:39:46:ARG:HG2	31:39:46:ARG:HH11	1.75	0.51
36:25:71:ARG:HE	36:25:105:GLU:CD	2.19	0.51
39:55:28:LEU:HD21	39:55:114:VAL:HG12	1.93	0.51
40:65:102:ALA:HA	40:65:105:ALA:HB3	1.93	0.51
1:13:280:C:H4'	1:13:281:G:OP2	2.11	0.51
4:3E:173:TRP:CD1	4:3E:174:LEU:HG	2.46	0.51
9:8E:55:ALA:HB1	9:8E:59:PHE:CD2	2.46	0.51
10:1I:32:ALA:HB1	10:1I:76:ASN:OD1	2.10	0.51
11:2I:48:ILE:HD11	11:2I:64:ALA:HA	1.92	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:320:A:OP1	31:31:135:LYS:NZ	2.27	0.51
26:1H:2106:G:N1	26:1H:2184:G:N3	2.58	0.51
27:16:15:A:H1'	27:16:109:G:C4	2.46	0.51
37:78:106:LEU:HD13	37:78:106:LEU:O	2.11	0.51
1:1G:750:G:N2	15:6A:23:GLY:HA3	2.25	0.51
1:1G:1080:A:H5''	1:1G:1081:G:OP2	2.11	0.51
1:1G:1152:A:H5'	10:1A:13:HIS:ND1	2.26	0.51
1:1G:1423:G:H2'	1:1G:1424:C:H6	1.74	0.51
2:12:41:ILE:HD12	2:12:42:ILE:H	1.76	0.51
3:22:33:LEU:O	3:22:36:ASP:N	2.43	0.51
3:22:87:LEU:H	3:22:88:ARG:NH2	2.07	0.51
9:82:43:ALA:HA	9:82:74:ILE:HD13	1.92	0.51
26:14:2313:C:H2'	26:14:2314:C:H6	1.74	0.51
26:14:2584:U:H2'	26:14:2585:U:H2'	1.93	0.51
30:29:65:GLY:N	30:29:73:GLU:OE1	2.44	0.51
32:49:60:LEU:HD22	32:49:68:PRO:HB3	1.93	0.51
47:D5:39:VAL:HG21	47:D5:44:PHE:HD2	1.76	0.51
49:F5:87:PRO:HA	49:F5:90:ILE:CG2	2.41	0.51
55:M5:31:HIS:O	55:M5:32:LEU:HB2	2.11	0.51
1:13:1187:G:O5'	9:8E:113:LYS:NZ	2.39	0.51
2:1E:21:ARG:C	2:1E:23:ARG:H	2.18	0.51
2:1E:72:GLY:HA2	2:1E:165:VAL:HG22	1.94	0.51
8:7E:87:SER:HB2	8:7E:93:VAL:N	2.26	0.51
9:8E:78:LYS:HE3	9:8E:101:PHE:CE1	2.46	0.51
22:1K:9:A:H3'	22:1K:10:G:H8	1.76	0.51
24:3K:72:C:C3'	24:3K:73:A:H5''	2.41	0.51
26:1H:32:C:O2'	26:1H:33:U:H5'	2.10	0.51
26:1H:71:A:OP1	26:1H:72:U:H2'	2.11	0.51
26:1H:270(M):U:OP2	34:61:57:ARG:NH2	2.42	0.51
26:1H:994:C:H3'	42:C8:54:LYS:HE3	1.92	0.51
26:1H:1337:G:C4	26:1H:1338:G:C8	2.99	0.51
26:1H:1416:G:O2'	26:1H:1417:C:H6	1.92	0.51
26:1H:1477:A:C6	26:1H:1478:G:C5	2.99	0.51
26:1H:1500:G:O2'	29:11:100:GLY:O	2.27	0.51
27:16:12:C:H6	27:16:12:C:OP2	1.93	0.51
31:31:177:ALA:HB1	31:31:178:PRO:HD2	1.93	0.51
39:98:34:ILE:HG22	39:98:114:VAL:CG2	2.41	0.51
39:98:104:ARG:HB2	39:98:107:ASP:HB3	1.92	0.51
40:A8:67:ARG:HH21	40:A8:103:GLU:HB2	1.76	0.51
1:1G:552:U:H2'	1:1G:553:A:C8	2.46	0.51
1:1G:664:G:H22	1:1G:741:G:H1	1.59	0.51

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:148:VAL:O	5:42:152:ARG:HG2	2.10	0.51
26:14:250:G:P	37:35:60:MET:HE1	2.51	0.51
26:14:753:C:H2'	26:14:754:C:C6	2.46	0.51
26:14:991:C:O2	26:14:1164:G:C2	2.64	0.51
26:14:1604:C:O2'	26:14:1610:A:N1	2.40	0.51
26:14:1668:A:H4'	26:14:1669:A:H5'	1.92	0.51
26:14:1678:G:N2	26:14:1989:G:N2	2.59	0.51
26:14:2099:U:H2'	26:14:2100:G:H5''	1.92	0.51
26:14:2292:C:H2'	26:14:2293:C:C6	2.46	0.51
26:14:2805:G:H2'	26:14:2807:G:O4'	2.09	0.51
30:29:201:THR:HG22	30:29:202:LYS:H	1.75	0.51
39:55:55:ALA:HB2	39:55:79:LEU:HD13	1.93	0.51
42:85:47:TYR:CE1	42:85:51:LYS:HE2	2.46	0.51
48:E5:12:ASN:HA	48:E5:14:ARG:NH2	2.22	0.51
55:M5:14:VAL:HG12	55:M5:15:LYS:N	2.26	0.51
1:13:179:A:H2'	1:13:180:U:H6	1.75	0.50
1:13:927:G:OP2	1:13:927:G:H4'	2.10	0.50
1:13:1405:G:OP2	57:13:1730:PAR:H34	2.11	0.50
4:3E:18:LYS:HD3	4:3E:31:CYS:SG	2.50	0.50
10:1I:49:VAL:CG2	14:5I:41:ARG:HB2	2.41	0.50
26:1H:353:G:H2'	26:1H:354:G:H8	1.76	0.50
26:1H:864:G:C6	26:1H:865:C:N4	2.79	0.50
26:1H:1026:U:H4'	26:1H:1027:A:OP1	2.11	0.50
26:1H:1312:U:H4'	26:1H:1313:U:O5'	2.10	0.50
26:1H:1385:G:O6	26:1H:1403:C:N4	2.44	0.50
26:1H:1534:G:H1	26:1H:1539:G:H1'	1.75	0.50
26:1H:1570:A:H2'	26:1H:1571:A:C8	2.47	0.50
26:1H:2154:G:H2'	26:1H:2155:G:C8	2.46	0.50
26:1H:2792:G:H22	26:1H:2804:C:H2'	1.76	0.50
28:71:45:ALA:HB2	28:71:212:VAL:HG22	1.93	0.50
31:31:149:ASP:OD1	31:31:149:ASP:N	2.33	0.50
35:58:9:VAL:HG11	35:58:39:ARG:HH12	1.76	0.50
36:68:105:GLU:O	36:68:109:LYS:HG2	2.11	0.50
38:88:6:ARG:HG2	38:88:7:MET:H	1.77	0.50
38:88:58:PHE:HB3	38:88:113:GLN:HE21	1.76	0.50
1:1G:339:C:H2'	1:1G:340:U:C6	2.47	0.50
1:1G:999:U:H2'	1:1G:1000:A:C8	2.47	0.50
1:1G:1051:C:H2'	1:1G:1052:U:C6	2.45	0.50
2:12:168:THR:HG23	2:12:192:SER:HA	1.93	0.50
3:22:72:LYS:HB3	3:22:75:VAL:HB	1.92	0.50
9:82:45:ALA:O	9:82:48:GLU:HB2	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AA:15:LEU:HD11	19:AA:33:THR:CB	2.42	0.50
24:3L:32:C:H2'	24:3L:33:U:C4	2.47	0.50
26:14:774:A:H2	26:14:787:U:HO2'	1.57	0.50
26:14:1127:A:N3	26:14:2518:A:H5'	2.27	0.50
26:14:2461:C:H2'	26:14:2462:U:H6	1.76	0.50
26:14:2773:C:OP1	30:29:166:THR:OG1	2.28	0.50
1:13:455:C:H42	1:13:477:G:H22	1.58	0.50
2:1E:183:PRO:HA	2:1E:198:ASP:OD2	2.11	0.50
12:3I:89:ARG:O	12:3I:99:HIS:HE1	1.95	0.50
13:4I:23:TYR:CE2	13:4I:71:ARG:HG3	2.46	0.50
23:2K:70:C:H2'	23:2K:71:G:O4'	2.11	0.50
26:1H:265:A:H1'	26:1H:266:G:O4'	2.11	0.50
26:1H:780:G:N2	26:1H:783:A:N6	2.52	0.50
26:1H:1035:U:H2'	26:1H:1036:G:H8	1.74	0.50
26:1H:1187:G:H8	26:1H:1187:G:O5'	1.94	0.50
26:1H:1416:G:O2'	26:1H:1417:C:C6	2.63	0.50
26:1H:1728:G:H5'	26:1H:1729:A:OP2	2.11	0.50
29:11:68:LYS:HA	29:11:70:TRP:CZ3	2.46	0.50
32:41:41:GLN:O	32:41:89:GLY:HA3	2.11	0.50
32:41:109:VAL:HG11	32:41:142:PRO:HD3	1.93	0.50
32:41:165:THR:OG1	32:41:168:GLU:HG3	2.11	0.50
48:I8:49:LYS:HB2	48:I8:80:HIS:HB3	1.92	0.50
1:1G:532:A:N6	1:1G:1206:G:O2'	2.36	0.50
1:1G:584:G:C5'	17:8A:91:ARG:HH21	2.24	0.50
20:BA:26:ASN:HA	20:BA:71:THR:HG23	1.92	0.50
23:2L:6:G:N2	23:2L:69:C:H1'	2.26	0.50
26:14:299:A:OP2	60:14:3420:HOH:O	2.19	0.50
26:14:628:G:H5''	55:M5:18:ALA:HB2	1.93	0.50
26:14:764:A:O4'	29:19:213:ARG:HG3	2.11	0.50
26:14:1484:G:H2'	26:14:1485:G:C8	2.46	0.50
26:14:2129:C:H5''	26:14:2130:U:C5	2.46	0.50
26:14:2865:U:C4	26:14:2866:U:C4	2.99	0.50
27:1J:52:A:N6	40:65:33:LYS:HD3	2.27	0.50
27:1J:75:G:H21	47:D5:85:HIS:CE1	2.29	0.50
29:19:44:ASN:HB3	29:19:47:GLY:H	1.76	0.50
29:19:44:ASN:CB	29:19:47:GLY:H	2.23	0.50
30:29:58:ARG:HD2	30:29:58:ARG:H	1.76	0.50
35:15:30:ILE:HG22	35:15:34:LEU:HD23	1.93	0.50
40:65:26:LEU:O	40:65:88:ASP:HB2	2.11	0.50
42:85:8:VAL:HB	42:85:12:ARG:HE	1.76	0.50
1:13:264:U:O2'	17:8I:63:ARG:HG3	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:501:C:H2'	1:13:502:G:C8	2.47	0.50
1:13:1194:U:H2'	1:13:1195:C:C6	2.46	0.50
1:13:1347:G:OP2	9:8E:107:ARG:HG2	2.11	0.50
1:13:1368:G:H5''	9:8E:112:LYS:HB3	1.93	0.50
3:2E:40:ARG:O	3:2E:44:GLU:HG2	2.11	0.50
5:4E:126:ARG:HG3	5:4E:126:ARG:NH1	2.26	0.50
6:5E:23:LYS:HD3	6:5E:61:LEU:HD21	1.92	0.50
6:5E:89:MET:HE1	18:9I:72:ARG:HB3	1.94	0.50
8:7E:81:HIS:N	8:7E:138:TRP:O	2.43	0.50
15:6I:33:THR:HA	15:6I:36:ILE:HD12	1.92	0.50
20:BI:35:THR:O	20:BI:38:LYS:HG2	2.12	0.50
20:BI:49:ALA:CB	20:BI:99:LEU:HB2	2.41	0.50
24:3K:16:U:O2'	24:3K:18:G:OP2	2.19	0.50
26:1H:529:A:H4'	26:1H:530:G:H5'	1.93	0.50
26:1H:860:U:C5	26:1H:917:A:H2	2.28	0.50
26:1H:941:A:H3'	26:1H:942:G:H8	1.77	0.50
26:1H:1598:C:O2'	26:1H:1599:C:H5'	2.11	0.50
26:1H:1678:G:N2	26:1H:1989:G:N2	2.57	0.50
26:1H:1728:G:O6	26:1H:1730:U:H5''	2.10	0.50
26:1H:2593:U:H2'	26:1H:2594:C:C6	2.46	0.50
26:1H:2636:U:H2'	26:1H:2637:U:H6	1.77	0.50
28:7I:43:VAL:HG13	28:7I:214:VAL:HA	1.92	0.50
31:3I:51:THR:HB	31:3I:88:VAL:HG11	1.92	0.50
37:78:19:VAL:HB	37:78:21:ARG:H	1.76	0.50
37:78:49:ARG:NH1	37:78:49:ARG:HB2	2.24	0.50
42:C8:14:HIS:O	42:C8:18:LEU:HD12	2.11	0.50
49:J8:91:LYS:O	49:J8:94:LEU:N	2.45	0.50
1:1G:129(A):G:C2	1:1G:191(A):G:C8	3.00	0.50
1:1G:176:C:OP1	20:BA:29:LYS:NZ	2.44	0.50
1:1G:404:U:OP2	4:32:118:ARG:NH1	2.45	0.50
1:1G:757:U:H2'	1:1G:758:G:O4'	2.11	0.50
1:1G:1452:C:H4'	1:1G:1453:G:H5'	1.92	0.50
4:32:13:ARG:C	4:32:15:GLU:H	2.19	0.50
15:6A:39:LEU:HD13	15:6A:56:LEU:HD12	1.93	0.50
17:8A:81:ARG:HB3	17:8A:84:LEU:HD12	1.93	0.50
26:14:579:G:H2'	26:14:580:C:H6	1.77	0.50
26:14:1328:G:H2'	26:14:1330:C:C5	2.46	0.50
26:14:2186:G:H2'	26:14:2187:G:H8	1.76	0.50
29:19:184:LYS:HD3	29:19:269:PHE:HA	1.93	0.50
30:29:55:ASN:HB2	30:29:58:ARG:HH21	1.75	0.50
31:39:130:ALA:O	31:39:132:VAL:HG12	2.12	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:69:75:LEU:HD13	34:69:77:LEU:HD23	1.93	0.50
43:95:85:LYS:CD	43:95:86:GLY:H	2.24	0.50
1:13:277:C:H2'	1:13:278:G:H8	1.76	0.50
2:1E:21:ARG:HB2	2:1E:39:ILE:HD13	1.92	0.50
4:3E:155:LEU:O	4:3E:157:LEU:N	2.44	0.50
22:1K:17:U:H4'	22:1K:60:U:C2	2.46	0.50
26:1H:654:A:H2'	26:1H:654(A):A:H8	1.76	0.50
26:1H:806:C:OP2	37:78:41:ARG:NH2	2.42	0.50
26:1H:859:G:O2'	26:1H:916:G:O6	2.24	0.50
26:1H:996:A:H4'	42:C8:92:ARG:NE	2.27	0.50
26:1H:1207:C:H2'	26:1H:1208:C:H6	1.76	0.50
26:1H:2212:A:H1'	26:1H:2215:G:C5	2.46	0.50
26:1H:2533:A:H2'	26:1H:2534:A:O4'	2.12	0.50
26:1H:2590:A:H2'	26:1H:2591:C:C6	2.47	0.50
29:11:30:GLU:HG3	29:11:63:ARG:NE	2.27	0.50
30:21:8:LYS:HA	30:21:26:ILE:HG22	1.92	0.50
34:61:4:ILE:HG13	34:61:39:ALA:HB2	1.93	0.50
37:78:122:PRO:HA	37:78:142:GLY:HA3	1.92	0.50
39:98:34:ILE:HG22	39:98:114:VAL:HG23	1.93	0.50
48:I8:25:ARG:HD3	48:I8:29:GLN:NE2	2.26	0.50
48:I8:40:GLN:OE1	48:I8:44:ARG:HB2	2.11	0.50
54:P8:37:LYS:O	54:P8:37:LYS:HG2	2.11	0.50
1:1G:571:U:O2	1:1G:918:A:H5'	2.11	0.50
1:1G:859:A:H2'	1:1G:860:A:O4'	2.11	0.50
2:12:80:ILE:HD13	2:12:212:GLN:CG	2.40	0.50
13:4A:14:ARG:HA	13:4A:43:THR:O	2.10	0.50
17:8A:41:LYS:NZ	17:8A:92:ARG:HH21	2.09	0.50
23:2L:8:4SU:C2	23:2L:14:A:H62	2.20	0.50
26:14:1991:U:H2'	26:14:1992:G:H5''	1.94	0.50
26:14:2512:C:H1'	30:29:140:SER:O	2.11	0.50
26:14:2786:U:O2	30:29:62:PRO:HB3	2.12	0.50
29:19:43:ARG:HG2	29:19:49:ILE:CA	2.41	0.50
30:29:54:GLN:O	30:29:75:VAL:HG13	2.10	0.50
30:29:65:GLY:O	30:29:68:ALA:HB2	2.11	0.50
31:39:38:ARG:CZ	31:39:99:TYR:OH	2.56	0.50
33:59:50:VAL:O	33:59:51:ARG:HG3	2.11	0.50
35:15:43:THR:HB	35:15:46:VAL:HG22	1.93	0.50
40:65:19:LYS:O	40:65:19:LYS:HG2	2.12	0.50
42:85:91:ASP:OD2	42:85:96:ALA:HB2	2.11	0.50
1:13:502:G:C6	1:13:503:C:C4	2.99	0.50
1:13:986:A:H2'	1:13:987:G:O4'	2.11	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:31:CYS:O	4:3E:32:ALA:HB3	2.11	0.50
9:8E:47:LEU:HD23	9:8E:47:LEU:H	1.76	0.50
10:1I:55:LYS:O	10:1I:55:LYS:HD3	2.11	0.50
13:4I:82:MET:C	13:4I:84:ILE:H	2.20	0.50
19:AI:40:ILE:O	19:AI:41:VAL:HG22	2.12	0.50
21:1F:12:LYS:HB3	21:1F:22:ARG:HD2	1.93	0.50
22:1K:14:A:C5	22:1K:22:G:C6	3.00	0.50
26:1H:194:G:H2'	26:1H:195:A:O4'	2.12	0.50
26:1H:1140:C:OP1	35:58:23:LEU:HB3	2.12	0.50
26:1H:1204:A:H2	26:1H:1241:A:N1	2.10	0.50
26:1H:1678:G:H8	26:1H:1678:G:O5'	1.94	0.50
26:1H:1805:U:O2	29:11:50:THR:HB	2.11	0.50
29:11:31:LYS:HD3	29:11:94:LEU:HD11	1.93	0.50
29:11:31:LYS:HZ1	29:11:102:LYS:HZ3	1.59	0.50
32:4I:11:TYR:HA	32:4I:15:VAL:HB	1.93	0.50
43:D8:59:ALA:HB2	43:D8:96:ILE:HD13	1.92	0.50
45:F8:89:ILE:HG22	45:F8:92:LEU:H	1.75	0.50
47:H8:48:PHE:CE1	47:H8:71:VAL:HG11	2.44	0.50
1:1G:377:G:H5'	16:7A:5:ARG:HH12	1.75	0.50
1:1G:1224:G:N1	1:1G:1322:C:H1'	2.27	0.50
2:12:185:ILE:HG23	2:12:199:TYR:HB2	1.93	0.50
11:2A:82:VAL:HB	11:2A:108:ILE:HG12	1.94	0.50
26:14:723:G:H2'	26:14:724:U:O4'	2.12	0.50
26:14:2175:C:OP1	28:79:6:ARG:NH2	2.44	0.50
27:1J:78:A:H2'	27:1J:79:C:O4'	2.12	0.50
27:1J:95:U:OP2	47:D5:14:LYS:NZ	2.26	0.50
44:A5:15:ARG:O	44:A5:19:LEU:HD13	2.11	0.50
46:C5:63:LYS:HA	46:C5:63:LYS:CE	2.42	0.50
49:F5:85:LEU:HA	49:F5:87:PRO:HD2	1.93	0.50
1:13:255:G:H1'	17:8I:16:GLN:OE1	2.12	0.50
1:13:266:G:H5''	1:13:267:C:H5	1.77	0.50
1:13:814:A:N7	1:13:816:A:C4	2.80	0.50
5:4E:64:ARG:HG2	5:4E:64:ARG:HH11	1.77	0.50
7:6E:144:MET:SD	24:3K:41:A:H1'	2.52	0.50
26:1H:97:C:H5''	50:K8:2:LYS:HA	1.94	0.50
26:1H:1454:U:H5'	39:98:63:ARG:NE	2.26	0.50
27:16:73:A:OP2	60:16:301:HOH:O	2.19	0.50
27:16:90:C:OP2	38:88:16:ARG:NH2	2.41	0.50
30:21:88:GLY:O	30:21:89:ASP:HB2	2.10	0.50
38:88:20:ALA:HA	38:88:98:LYS:HB3	1.94	0.50
47:H8:110:GLY:H	47:H8:112:ARG:HG3	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:J8:53:VAL:HB	49:J8:58:ILE:HD13	1.92	0.50
49:J8:87:PRO:O	49:J8:91:LYS:N	2.43	0.50
50:K8:38:GLN:HB3	50:K8:44:LEU:HB3	1.94	0.50
1:1G:186(D):C:H42	1:1G:191(C):G:H1	1.60	0.50
1:1G:404:U:O4	4:32:2:GLY:N	2.44	0.50
1:1G:406:G:H1	1:1G:436:C:H42	1.59	0.50
1:1G:967:C:H2'	1:1G:968:A:N7	2.25	0.50
1:1G:1373:G:OP1	7:62:36:LYS:HD2	2.12	0.50
1:1G:1401:G:OP1	25:4L:18:G:O2'	2.22	0.50
2:12:187:LEU:HD22	2:12:188:ALA:H	1.76	0.50
10:1A:84:GLN:NE2	10:1A:84:GLN:N	2.60	0.50
11:2A:62:GLN:O	11:2A:66:LEU:HG	2.12	0.50
12:3A:47:LYS:HD2	12:3A:48:PRO:HD2	1.92	0.50
18:9A:53:ARG:HA	18:9A:56:THR:OG1	2.12	0.50
19:AA:11:VAL:HG21	19:AA:41:VAL:HG12	1.94	0.50
26:14:26:G:C6	26:14:27:G:N1	2.80	0.50
26:14:94:G:H21	50:G5:47:ASN:HD22	1.59	0.50
26:14:489:G:O6	44:A5:45:TYR:OH	2.28	0.50
26:14:899:A:H2'	26:14:900:A:C8	2.47	0.50
26:14:1011:G:H1	26:14:1150:C:H42	1.58	0.50
26:14:1262:A:P	44:A5:99:ARG:HH12	2.35	0.50
26:14:1878:G:H2'	26:14:1879:C:C6	2.47	0.50
26:14:2128:C:H42	26:14:2160:G:H1	1.59	0.50
26:14:2340:G:H2'	26:14:2341:G:H8	1.76	0.50
26:14:2346:A:H5''	26:14:2383:G:C1'	2.41	0.50
26:14:2745:C:H42	26:14:2759:G:H1	1.57	0.50
39:55:58:GLY:HA2	39:55:80:PHE:CE2	2.46	0.50
42:85:8:VAL:O	42:85:12:ARG:HG2	2.12	0.50
42:85:20:LEU:HB3	42:85:39:LEU:HD11	1.94	0.50
44:A5:17:VAL:O	44:A5:20:VAL:HG22	2.12	0.50
45:B5:40:LYS:HA	45:B5:51:VAL:HG11	1.92	0.50
1:13:200:G:H1	1:13:217:C:H42	1.60	0.50
1:13:222:U:H2'	1:13:223:U:H6	1.76	0.50
1:13:653:A:H5'	8:7E:56:LYS:HE2	1.92	0.50
1:13:952:U:O4	13:4I:104:ARG:HD3	2.12	0.50
1:13:1226:C:OP2	13:4I:103:THR:OG1	2.21	0.50
1:13:1305:G:O2'	1:13:1331:G:N2	2.33	0.50
1:13:1360:A:H2'	1:13:1361:G:O4'	2.12	0.50
5:4E:100:VAL:O	5:4E:107:ARG:NH2	2.45	0.50
13:4I:108:ARG:NH2	13:4I:111:LYS:HD3	2.27	0.50
20:BI:53:LEU:HB3	20:BI:57:ARG:NH1	2.26	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3K:49:G:H1'	24:3K:66:A:C4	2.47	0.50
24:3K:52:G:H2'	24:3K:53:G:C8	2.47	0.50
26:1H:639:U:H2'	26:1H:640:C:C6	2.46	0.50
26:1H:699:A:H2'	26:1H:700:G:O4'	2.12	0.50
26:1H:1021:A:H2'	26:1H:1023:U:H5'	1.92	0.50
26:1H:2135:A:C6	26:1H:2136:C:H1'	2.47	0.50
29:11:164:GLN:HG2	29:11:166:GLN:OE1	2.12	0.50
31:31:32:LEU:CD2	31:31:105:VAL:HG13	2.42	0.50
31:31:197:ASP:O	31:31:199:TRP:N	2.44	0.50
37:78:50:ARG:HD3	55:Q8:7:HIS:CD2	2.47	0.50
38:88:32:TYR:CE1	38:88:133:ARG:HG3	2.47	0.50
40:A8:58:LEU:HD13	40:A8:68:GLN:OE1	2.12	0.50
41:B8:111:ARG:HD3	41:B8:111:ARG:H	1.77	0.50
47:H8:8:TYR:HB2	47:H8:38:TYR:CE1	2.47	0.50
1:1G:6:G:P	4:32:84:LYS:HB3	2.52	0.50
1:1G:9:G:C6	1:1G:26:A:N6	2.79	0.50
1:1G:45:U:H2'	1:1G:46:G:C8	2.47	0.50
1:1G:352:C:O2	1:1G:355:C:N4	2.43	0.50
1:1G:376:G:H5''	16:7A:5:ARG:HD2	1.94	0.50
1:1G:486:U:H2'	1:1G:487:A:C8	2.46	0.50
1:1G:1037:C:H2'	1:1G:1038:C:C6	2.47	0.50
1:1G:1328:C:O2'	13:4A:29:ARG:NE	2.42	0.50
1:1G:1329:A:H5''	13:4A:25:ILE:O	2.12	0.50
7:62:88:PRO:HD2	7:62:148:ASN:HB3	1.93	0.50
9:82:42:ARG:NH1	9:82:75:ASP:OD1	2.45	0.50
12:3A:54:LYS:HD2	12:3A:54:LYS:H	1.76	0.50
14:5A:23:ARG:HH11	14:5A:28:GLY:HA2	1.77	0.50
20:BA:54:LYS:HA	20:BA:57:ARG:NH2	2.26	0.50
24:3L:21:A:H2'	24:3L:21:A:N3	2.26	0.50
26:14:270(Z):U:O3'	26:14:271(A):C:H6	1.95	0.50
26:14:433:C:C4	26:14:434:U:O4	2.65	0.50
26:14:656:G:H2'	26:14:657:U:O4'	2.12	0.50
26:14:868:U:C4	26:14:869:G:N7	2.80	0.50
26:14:1197:G:N2	26:14:1250:G:C5	2.79	0.50
26:14:1568:G:H4'	29:19:59:LYS:HD3	1.94	0.50
31:39:27:GLU:HB3	31:39:112:MET:HG2	1.94	0.50
36:25:14:THR:HG22	36:25:52:VAL:HG22	1.94	0.50
47:D5:25:PRO:O	47:D5:85:HIS:HA	2.12	0.50
1:13:757:U:H2'	1:13:758:G:O4'	2.12	0.50
1:13:1239:A:H62	1:13:1299:A:N6	2.10	0.50
1:13:1323:G:H2'	1:13:1324:A:H8	1.77	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4I:2:ALA:HB3	13:4I:53:VAL:HG11	1.93	0.50
13:4I:67:GLU:CG	13:4I:71:ARG:HH21	2.25	0.50
17:8I:85:VAL:HG13	17:8I:89:LEU:HD23	1.93	0.50
19:AI:18:LYS:HG3	19:AI:31:ILE:HD12	1.94	0.50
23:2K:62:C:H2'	23:2K:63:C:H6	1.77	0.50
26:1H:6:A:H4'	35:58:129:PRO:HB3	1.94	0.50
26:1H:1165:U:H2'	26:1H:1166:C:H6	1.74	0.50
26:1H:1467:C:O2'	26:1H:1468:C:H5'	2.12	0.50
26:1H:1689:A:C6	26:1H:1700:A:C2	3.00	0.50
26:1H:1971:A:C5	29:11:241:PRO:HG3	2.47	0.50
26:1H:2019:A:C4'	42:C8:34:LYS:HD2	2.41	0.50
26:1H:2280:G:C2'	26:1H:2281:C:H5'	2.41	0.50
26:1H:2564:A:OP1	26:1H:2648:C:H4'	2.12	0.50
32:4I:25:TYR:OH	32:4I:168:GLU:OE2	2.28	0.50
35:58:13:TRP:O	35:58:135:PRO:HD2	2.11	0.50
41:B8:107:ASP:O	41:B8:110:ILE:HG12	2.12	0.50
42:C8:50:ARG:HG2	42:C8:53:ARG:NH2	2.27	0.50
42:C8:90:VAL:CG2	43:D8:39:LEU:HB3	2.41	0.50
47:H8:40:ASP:OD2	47:H8:43:GLU:HG3	2.11	0.50
1:1G:1127:G:N2	1:1G:1144:G:H1	2.10	0.50
1:1G:1255:G:N2	1:1G:1259:C:O2	2.31	0.50
1:1G:1349:A:H2'	1:1G:1350:A:O4'	2.11	0.50
1:1G:1382:C:HO2'	24:3L:34:U:H5	1.57	0.50
2:12:54:THR:HA	2:12:57:PHE:CD2	2.47	0.50
2:12:75:LYS:HA	2:12:78:GLN:HB2	1.92	0.50
18:9A:21:LYS:NZ	18:9A:22:VAL:O	2.44	0.50
23:2L:32:G:C6	23:2L:33:OMC:N4	2.79	0.50
26:14:34:C:H1'	26:14:35:G:OP1	2.11	0.50
26:14:49:A:H5''	26:14:51:G:O4'	2.12	0.50
26:14:195:A:H4'	26:14:251:A:O2'	2.11	0.50
26:14:1225:C:H5''	43:95:85:LYS:HD3	1.93	0.50
26:14:1257:C:OP1	31:39:75:HIS:HE1	1.95	0.50
26:14:1332:G:H5''	60:14:3408:HOH:O	2.11	0.50
26:14:2108:C:H42	26:14:2181:G:H1	1.60	0.50
26:14:2467:C:H4'	38:45:123:HIS:CD2	2.46	0.50
30:29:41:LYS:HG3	30:29:42:ASP:N	2.27	0.50
31:39:120:GLU:HG3	31:39:122:LYS:HG2	1.94	0.50
31:39:122:LYS:O	31:39:123:LEU:HG	2.11	0.50
32:49:27:ASN:HB3	32:49:30:GLU:HG3	1.93	0.50
36:25:73:ASP:OD1	36:25:73:ASP:N	2.41	0.50
39:55:12:ARG:HB3	39:55:16:HIS:HB3	1.94	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:15:VAL:HG12	46:C5:21:LYS:HA	1.94	0.50
1:13:38:G:C2	1:13:397:A:C2	3.00	0.50
1:13:453:A:H4'	16:7I:72:ARG:HB2	1.93	0.50
1:13:998:G:N2	1:13:1043:C:O2	2.43	0.50
1:13:1121:U:C4	1:13:1122:U:C4	2.99	0.50
5:4E:15:ARG:CG	5:4E:26:PHE:HD2	2.25	0.50
8:7E:134:ILE:HG22	8:7E:135:CYS:SG	2.52	0.50
9:8E:28:VAL:HG22	9:8E:63:ILE:HB	1.93	0.50
17:8I:28:PRO:HA	17:8I:34:LYS:O	2.12	0.50
26:1H:1188:U:C4'	43:D8:79:VAL:HG22	2.41	0.50
26:1H:1354:A:H4'	29:11:39:LYS:HE3	1.93	0.50
26:1H:1480:G:N1	26:1H:1482:U:O2	2.45	0.50
30:21:34:VAL:HG21	30:21:77:ILE:HD13	1.93	0.50
46:G8:87:LYS:O	46:G8:94:LYS:HB2	2.11	0.50
47:H8:126:VAL:HG12	47:H8:163:LEU:HD23	1.94	0.50
55:Q8:34:TRP:CZ2	55:Q8:35:GLN:NE2	2.80	0.50
1:1G:224:C:H2'	1:1G:225:C:C6	2.47	0.50
1:1G:256:U:H2'	1:1G:257:G:C8	2.46	0.50
1:1G:980:C:H5'	1:1G:981:U:C6	2.46	0.50
1:1G:994:A:C4	14:5A:5:ALA:HB2	2.46	0.50
1:1G:1512:U:H2'	1:1G:1513:A:C8	2.47	0.50
2:12:78:GLN:O	2:12:94:ASN:ND2	2.40	0.50
3:22:91:LEU:HD21	3:22:101:LEU:HD11	1.94	0.50
9:82:21:PRO:HA	9:82:59:PHE:HB3	1.94	0.50
18:9A:36:ASN:ND2	18:9A:38:GLU:OE1	2.45	0.50
20:BA:49:ALA:HB3	20:BA:100:ILE:HD13	1.93	0.50
23:2L:8:4SU:O2'	23:2L:22:A:N1	2.33	0.50
26:14:234:C:H2'	26:14:235:U:H6	1.77	0.50
26:14:571:A:H5'	26:14:2030:A:N7	2.27	0.50
26:14:1154:G:OP1	42:85:58:ARG:HD3	2.12	0.50
26:14:1374:G:H2'	26:14:1375:C:C6	2.47	0.50
26:14:1449:A:H8	26:14:1449:A:OP2	1.94	0.50
26:14:1858:G:N2	26:14:1883:G:H2'	2.27	0.50
26:14:1970:A:OP1	26:14:1970:A:H4'	2.12	0.50
26:14:2037:G:H2'	26:14:2038:G:C8	2.47	0.50
27:1J:7:G:N2	40:65:38:GLN:OE1	2.40	0.50
30:29:120:TRP:CG	30:29:155:LYS:HB3	2.47	0.50
34:69:130:TYR:O	34:69:131:LYS:HD3	2.12	0.50
36:25:92:GLU:HG2	36:25:113:LYS:HZ2	1.75	0.50
53:J5:51:TYR:O	53:J5:55:ARG:NH1	2.40	0.50
1:13:68:G:C2	1:13:69:G:C8	2.99	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:664:G:P	18:9I:64:ARG:HH21	2.34	0.49
1:13:1116:C:O2'	9:8E:108:VAL:HG21	2.12	0.49
1:13:1127:G:N7	1:13:1128:C:N4	2.59	0.49
1:13:1533:C:O2'	1:13:1534:A:OP1	2.24	0.49
17:8I:13:ASP:OD2	17:8I:53:LEU:HD13	2.12	0.49
22:1K:76:A:O5'	26:1H:2602:A:N6	2.45	0.49
26:1H:276:A:C8	26:1H:278:A:N6	2.80	0.49
26:1H:443:A:H1'	26:1H:1201:C:O4'	2.11	0.49
26:1H:572:A:H5''	26:1H:573:G:OP2	2.12	0.49
26:1H:1049:C:H2'	26:1H:1050:A:H5'	1.94	0.49
26:1H:1486:A:H2'	26:1H:1487:G:C8	2.47	0.49
26:1H:1751:C:H2'	26:1H:1752:C:C6	2.47	0.49
26:1H:2292:C:OP1	40:A8:17:ARG:NH2	2.45	0.49
26:1H:2801:A:H5'	26:1H:2895:U:O2'	2.12	0.49
29:11:108:PRO:HG3	29:11:143:HIS:CE1	2.46	0.49
30:21:34:VAL:HG22	30:21:48:GLN:HB3	1.94	0.49
32:41:104:GLU:CD	52:M8:23:GLU:HG3	2.37	0.49
32:41:139:LEU:HD13	32:41:146:TYR:CD2	2.46	0.49
32:41:144:ILE:HG22	32:41:146:TYR:H	1.77	0.49
39:98:97:VAL:HG22	39:98:114:VAL:HG12	1.94	0.49
40:A8:26:LEU:HD23	40:A8:87:PHE:HD1	1.76	0.49
40:A8:34:HIS:CD2	40:A8:54:LEU:HD23	2.47	0.49
42:C8:50:ARG:HH12	43:D8:72:VAL:HG23	1.77	0.49
47:H8:48:PHE:CE1	47:H8:52:SER:HA	2.46	0.49
1:1G:583:A:H2'	1:1G:584:G:O4'	2.12	0.49
1:1G:888:G:O2'	1:1G:1488:G:O2'	2.23	0.49
1:1G:1453:G:H3'	20:BA:39:LYS:NZ	2.26	0.49
4:32:70:ILE:HD11	4:32:75:PHE:CD2	2.46	0.49
7:62:67:GLU:HA	7:62:70:LYS:NZ	2.26	0.49
11:2A:27:ASN:ND2	11:2A:55:LYS:HB3	2.23	0.49
14:5A:59:ALA:HB1	14:5A:61:TRP:HZ3	1.77	0.49
24:3L:37:A:H2'	24:3L:38:A:C8	2.47	0.49
26:14:172:C:H2'	26:14:173:G:H8	1.77	0.49
26:14:184:C:H2'	26:14:185:U:C6	2.47	0.49
26:14:389:G:N1	37:35:71:VAL:HG12	2.26	0.49
26:14:817:C:H2'	26:14:818:G:O4'	2.12	0.49
26:14:2839:G:H21	39:55:92:GLY:CA	2.24	0.49
27:1J:70:C:H2'	27:1J:71:C:H6	1.76	0.49
29:19:141:VAL:HG23	29:19:162:SER:HB2	1.93	0.49
30:29:52:LEU:HD12	30:29:53:PRO:HD2	1.92	0.49
35:15:35:ARG:HB3	35:15:42:TRP:HZ3	1.75	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:95:1:MET:HB3	43:95:42:GLY:HA3	1.94	0.49
1:13:376:G:H2'	1:13:377:G:H8	1.77	0.49
1:13:667:G:H4'	15:6I:51:HIS:CE1	2.47	0.49
1:13:827:U:C5	1:13:870:U:C4	3.00	0.49
1:13:1128:C:C5	1:13:1139:G:C2	3.00	0.49
1:13:1264:C:H2'	1:13:1265:G:H8	1.76	0.49
12:3I:66:VAL:HG21	12:3I:98:TYR:CE1	2.47	0.49
22:1K:14:A:C6	22:1K:22:G:C5	3.00	0.49
24:3K:17:U:H3'	24:3K:18:G:C5'	2.42	0.49
26:1H:455:C:N3	26:1H:473:G:H5'	2.28	0.49
26:1H:994:C:O2'	26:1H:996:A:OP1	2.25	0.49
26:1H:1727:U:H2'	26:1H:1728:G:O4'	2.13	0.49
26:1H:1897:G:H2'	26:1H:1898:U:O4'	2.13	0.49
26:1H:2138:C:N3	26:1H:2153:G:N2	2.60	0.49
26:1H:2301:C:H2'	26:1H:2302:G:C8	2.47	0.49
26:1H:2579:C:H2'	26:1H:2580:U:O4'	2.11	0.49
26:1H:2703:C:H2'	26:1H:2704:C:H6	1.77	0.49
26:1H:2887:U:H2'	26:1H:2888:C:C6	2.48	0.49
27:16:8:U:O3'	40:A8:25:ARG:NH2	2.45	0.49
33:51:4:ILE:HG21	33:51:6:ARG:CZ	2.43	0.49
34:61:138:ILE:HG12	34:61:139:GLN:H	1.78	0.49
37:78:30:THR:HG21	37:78:35:HIS:H	1.77	0.49
42:C8:92:ARG:HD2	43:D8:11:GLN:HB2	1.94	0.49
46:G8:30:VAL:HG13	46:G8:37:VAL:HG12	1.93	0.49
1:1G:5:U:O3'	4:32:84:LYS:HB3	2.11	0.49
1:1G:625:G:H2'	1:1G:626:U:C6	2.47	0.49
1:1G:1063:C:H5	1:1G:1064:G:HO2'	1.59	0.49
1:1G:1157:A:H61	1:1G:1177:G:H1	1.59	0.49
1:1G:1205:U:H2'	1:1G:1206:G:C8	2.46	0.49
1:1G:1222:G:C6	1:1G:1223:C:C4	3.01	0.49
1:1G:1291:G:O3'	9:82:39:GLY:HA3	2.12	0.49
7:62:47:CYS:O	7:62:50:ILE:HG22	2.11	0.49
7:62:92:SER:HB2	7:62:94:ARG:HH21	1.77	0.49
26:14:57:C:H2'	26:14:58:G:O4'	2.12	0.49
26:14:1581:G:H2'	26:14:1582:C:O4'	2.12	0.49
26:14:1789:A:H2'	26:14:1790:C:O4'	2.13	0.49
26:14:2760:C:H2'	26:14:2761:G:H8	1.77	0.49
27:1J:44:G:H1'	27:1J:47:C:N4	2.26	0.49
30:29:37:ARG:HA	30:29:42:ASP:OD2	2.12	0.49
32:49:101:ILE:O	32:49:105:LYS:N	2.23	0.49
37:35:19:VAL:HG13	37:35:21:ARG:HG2	1.94	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:35:85:LEU:HD22	37:35:115:LEU:O	2.12	0.49
38:45:57:HIS:NE2	38:45:116:GLU:HG2	2.27	0.49
51:H5:8:LEU:HD12	51:H5:28:LEU:HB3	1.94	0.49
1:13:868:C:H2'	1:13:869:G:O4'	2.11	0.49
1:13:887:G:H1	1:13:910:C:H42	1.59	0.49
1:13:1163:C:H2'	1:13:1164:G:H8	1.77	0.49
7:6E:13:GLN:O	7:6E:24:THR:HG21	2.12	0.49
7:6E:113:GLU:HG3	7:6E:118:VAL:HG12	1.94	0.49
13:4I:4:ILE:HG22	13:4I:5:ALA:H	1.76	0.49
26:1H:270(E):G:N2	26:1H:270(U):C:N3	2.58	0.49
26:1H:710:G:H2'	26:1H:711:G:C8	2.46	0.49
26:1H:1374:G:H2'	26:1H:1375:C:C6	2.46	0.49
26:1H:1428:C:N4	26:1H:1570:A:OP2	2.37	0.49
26:1H:1778:U:H2'	26:1H:1784:A:H62	1.76	0.49
26:1H:2166:G:H2'	26:1H:2168:G:OP2	2.12	0.49
26:1H:2395:C:H5''	26:1H:2396:G:OP2	2.12	0.49
34:61:77:LEU:CD1	34:61:140:LEU:HB3	2.42	0.49
36:68:113:LYS:O	36:68:116:SER:OG	2.27	0.49
40:A8:106:ARG:HH11	40:A8:107:GLU:CG	2.25	0.49
1:1G:1023:G:H5'	1:1G:1024:G:OP2	2.11	0.49
7:62:62:PHE:HA	7:62:124:LEU:HD22	1.95	0.49
8:72:17:THR:HG22	8:72:78:GLN:NE2	2.27	0.49
9:82:20:ARG:HG3	9:82:60:ASP:HB2	1.94	0.49
19:AA:61:TYR:CE2	19:AA:63:THR:HA	2.47	0.49
26:14:90:U:O2'	26:14:91:A:H8	1.95	0.49
26:14:251:A:C5	26:14:252:G:H1'	2.47	0.49
26:14:374:A:H3'	26:14:375:C:H6	1.77	0.49
26:14:760:G:H2'	26:14:761:A:O4'	2.11	0.49
26:14:1003:G:N2	26:14:1153:C:C2	2.81	0.49
26:14:1003:G:O2'	26:14:1010:A:N1	2.32	0.49
26:14:1259:G:O2'	26:14:1260:G:H5'	2.12	0.49
26:14:2151:G:H2'	26:14:2152:G:O4'	2.13	0.49
26:14:2152:G:N3	26:14:2152:G:H2'	2.26	0.49
26:14:2168:G:H21	26:14:2170:A:P	2.35	0.49
37:35:52:GLU:CD	37:35:52:GLU:C	2.79	0.49
38:45:19:GLY:O	38:45:99:PRO:HD2	2.11	0.49
38:45:52:VAL:HG12	38:45:56:ARG:HH11	1.77	0.49
44:A5:110:LYS:HG3	44:A5:111:HIS:ND1	2.27	0.49
49:F5:15:ALA:O	49:F5:40:ARG:HG3	2.11	0.49
3:2E:111:LEU:HD21	3:2E:145:GLY:O	2.12	0.49
24:3K:45:G:H4'	24:3K:46:G:OP1	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:384:U:H2'	26:1H:385:C:H6	1.76	0.49
26:1H:539:G:H2'	26:1H:540:G:C8	2.47	0.49
26:1H:1168:G:H1	26:1H:1181:C:H42	1.60	0.49
26:1H:1331:A:O2'	26:1H:1332:G:C8	2.66	0.49
26:1H:1796:U:H2'	26:1H:1797:C:C6	2.47	0.49
26:1H:1860:G:OP1	28:71:210:ARG:NH2	2.45	0.49
26:1H:1949:G:H1	26:1H:1957:C:H42	1.60	0.49
32:41:107:LEU:HD21	32:41:178:PHE:CE1	2.47	0.49
33:51:157:TYR:O	33:51:158:HIS:ND1	2.45	0.49
35:58:55:VAL:HB	35:58:126:PRO:HA	1.92	0.49
38:88:51:ARG:HH21	38:88:52:VAL:CG2	2.26	0.49
39:98:18:LEU:HD11	39:98:22:ARG:CZ	2.41	0.49
39:98:48:VAL:HA	39:98:51:LEU:HB2	1.95	0.49
40:A8:88:ASP:O	40:A8:90:GLY:N	2.44	0.49
43:D8:1:MET:SD	43:D8:43:GLU:HG2	2.53	0.49
47:H8:77:ASP:OD2	47:H8:80:ARG:HD2	2.12	0.49
47:H8:139:VAL:HG22	47:H8:155:LEU:HD22	1.95	0.49
53:N8:33:CYS:SG	53:N8:40:LYS:HD3	2.53	0.49
1:1G:9:G:OP1	5:42:122:GLU:HB2	2.11	0.49
1:1G:198:G:H2'	1:1G:199:G:C8	2.47	0.49
1:1G:501:C:OP2	12:3A:124:LYS:HE2	2.11	0.49
1:1G:685:G:O2'	1:1G:686:U:H5'	2.11	0.49
3:22:33:LEU:HD12	3:22:36:ASP:HB3	1.95	0.49
3:22:175:LEU:HD21	3:22:201:TYR:CE2	2.48	0.49
4:32:112:VAL:HG12	4:32:116:GLN:OE1	2.12	0.49
10:1A:26:ALA:O	10:1A:84:GLN:HG2	2.11	0.49
23:2L:23:G:H2'	23:2L:24:C:C6	2.46	0.49
26:14:1062:G:O6	26:14:1074:G:N2	2.37	0.49
26:14:1225:C:H4'	43:95:85:LYS:HB2	1.93	0.49
26:14:1351:C:O2'	26:14:1571:A:N3	2.41	0.49
26:14:1665:A:H2'	26:14:1666:G:O4'	2.12	0.49
26:14:2789:C:C2	26:14:2894:G:N2	2.80	0.49
27:1J:88:C:H5''	27:1J:89:G:C5	2.47	0.49
38:45:117:ALA:HA	38:45:120:ILE:HB	1.94	0.49
44:A5:78:GLU:OE1	44:A5:99:ARG:HD2	2.12	0.49
48:E5:48:GLY:HA3	48:E5:80:HIS:ND1	2.28	0.49
1:13:700:G:H4'	1:13:704:A:H1'	1.95	0.49
1:13:1197:G:C2'	1:13:1198:G:H5'	2.43	0.49
7:6E:149:ARG:HG2	11:2I:59:TYR:CZ	2.48	0.49
13:4I:3:ARG:HD2	52:M8:34:GLU:CD	2.38	0.49
13:4I:31:LYS:HD2	13:4I:31:LYS:N	2.27	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BI:79:ARG:HG2	20:BI:83:ARG:HH11	1.76	0.49
26:1H:29:U:H2'	26:1H:30:G:H8	1.74	0.49
26:1H:32:C:C2'	26:1H:33:U:H5'	2.43	0.49
26:1H:302:C:H2'	26:1H:303:U:C6	2.47	0.49
26:1H:580:C:H2'	26:1H:581:C:H6	1.77	0.49
26:1H:1328:G:H2'	26:1H:1330:C:C5	2.47	0.49
26:1H:1728:G:H2'	26:1H:1731:G:O6	2.12	0.49
27:16:6:C:H2'	27:16:7:G:O4'	2.13	0.49
28:71:22:ILE:HG23	28:71:189:ILE:HD12	1.93	0.49
31:31:39:TRP:CH2	31:31:106:ARG:HD2	2.48	0.49
37:78:46:LYS:O	37:78:47:ASP:HB3	2.11	0.49
48:I8:40:GLN:NE2	48:I8:45:PHE:O	2.40	0.49
1:1G:1061:G:H2'	1:1G:1062:U:H6	1.78	0.49
1:1G:1187:G:H3'	1:1G:1188:A:H8	1.76	0.49
24:3L:15:G:H2'	24:3L:59:A:N1	2.27	0.49
24:3L:19:G:OP2	24:3L:57:G:N2	2.43	0.49
26:14:106:C:H2'	26:14:107:C:H6	1.78	0.49
26:14:459:U:H2'	26:14:460:A:C8	2.47	0.49
26:14:521:G:H2'	26:14:522:G:H8	1.78	0.49
26:14:780:G:N2	26:14:783:A:H62	1.96	0.49
26:14:1028:A:N6	26:14:1125:G:H2'	2.27	0.49
26:14:1036:G:OP2	26:14:1036:G:H8	1.94	0.49
26:14:1784:A:H4'	26:14:1785:A:O5'	2.13	0.49
26:14:2298:A:H1'	26:14:2321:G:N2	2.28	0.49
26:14:2346:A:C2	26:14:2383:G:C2	3.01	0.49
27:1J:22:U:H5'	27:1J:23:G:OP2	2.11	0.49
29:19:35:LYS:HD2	29:19:61:LEU:HG	1.94	0.49
32:49:16:ARG:O	32:49:20:ILE:HG13	2.12	0.49
40:65:15:ARG:HB3	40:65:19:LYS:NZ	2.28	0.49
40:65:42:ASP:O	40:65:43:GLU:HG2	2.12	0.49
45:B5:27:THR:HG22	45:B5:80:ILE:HG13	1.94	0.49
1:13:1023:G:H3'	1:13:1024:G:H5''	1.95	0.49
1:13:1417:G:C6	1:13:1482:G:C6	3.00	0.49
5:4E:64:ARG:HG2	5:4E:64:ARG:NH1	2.26	0.49
13:4I:3:ARG:HH21	13:4I:9:ILE:HD11	1.76	0.49
22:1K:43:U:O5'	22:1K:43:U:H6	1.95	0.49
26:1H:270(E):G:H1	26:1H:270(U):C:H42	1.60	0.49
26:1H:276:A:N7	26:1H:278:A:N6	2.57	0.49
26:1H:307:G:N2	26:1H:309:G:H3'	2.28	0.49
26:1H:330:A:O2'	26:1H:331:A:H8	1.96	0.49
26:1H:2133:G:HO2'	26:1H:2157:G:N2	2.11	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2308:G:H2'	26:1H:2308:G:N3	2.27	0.49
26:1H:2453:A:H2'	26:1H:2454:G:O4'	2.12	0.49
32:41:125:PHE:HB3	32:41:166:ASP:CG	2.36	0.49
33:51:40:GLU:HB3	33:51:55:PRO:HG2	1.94	0.49
37:78:50:ARG:HH21	37:78:50:ARG:HG3	1.77	0.49
42:C8:88:ILE:O	42:C8:88:ILE:HG22	2.12	0.49
55:Q8:41:ILE:HG13	55:Q8:42:ARG:N	2.24	0.49
1:1G:1225:A:H5''	1:1G:1226:C:OP2	2.13	0.49
1:1G:1232:U:H2'	1:1G:1233:G:O4'	2.12	0.49
1:1G:1329:A:H2'	1:1G:1330:U:O4'	2.12	0.49
1:1G:1386:G:O2'	1:1G:1387:G:H5'	2.13	0.49
6:52:91:VAL:HG21	18:9A:72:ARG:HD3	1.94	0.49
12:3A:117:ARG:NH2	12:3A:124:LYS:HG3	2.28	0.49
22:1L:53:G:C2'	22:1L:54:5MU:H5''	2.42	0.49
26:14:271(A):C:O2'	26:14:271(B):G:H5'	2.12	0.49
26:14:815:C:H2'	26:14:816:C:H6	1.78	0.49
26:14:1454:U:OP1	39:55:77:ARG:HD3	2.12	0.49
26:14:1762:A:N6	60:14:3480:HOH:O	2.45	0.49
26:14:2462:U:H2'	26:14:2463:C:C6	2.47	0.49
27:1J:24:G:N7	27:1J:56:G:O2'	2.41	0.49
27:1J:109:G:C6	27:1J:110:G:C5	3.01	0.49
29:19:16:MET:HE2	29:19:208:LYS:HG2	1.94	0.49
29:19:133:LEU:HD13	29:19:173:VAL:CG1	2.42	0.49
30:29:7:VAL:HG12	30:29:8:LYS:H	1.77	0.49
31:39:23:ASP:OD1	31:39:23:ASP:N	2.43	0.49
35:15:21:LYS:O	35:15:60:ILE:HG13	2.12	0.49
35:15:96:GLU:O	35:15:100:GLU:HG3	2.12	0.49
37:35:85:LEU:HA	37:35:88:LEU:HD22	1.94	0.49
38:45:18:LYS:H	38:45:98:LYS:HZ3	1.60	0.49
46:C5:87:LYS:NZ	46:C5:89:PHE:CD1	2.81	0.49
1:13:475:G:H3'	1:13:476:G:H8	1.78	0.49
1:13:1126:U:C5	1:13:1127:G:C2	3.00	0.49
3:2E:95:THR:HB	3:2E:97:LYS:HG3	1.95	0.49
10:1I:34:VAL:HG12	10:1I:74:ILE:HG12	1.95	0.49
12:3I:66:VAL:HG22	12:3I:67:THR:N	2.28	0.49
24:3K:66:A:H5'	24:3K:67:C:OP2	2.13	0.49
26:1H:164:U:H5'	26:1H:165:U:OP2	2.12	0.49
26:1H:250:G:H2'	26:1H:251:A:C8	2.48	0.49
26:1H:701:G:N2	26:1H:731:C:O2	2.45	0.49
26:1H:1210:A:H5'	26:1H:1210:A:H8	1.76	0.49
26:1H:1443:G:C2	26:1H:1549:C:N3	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1626:G:H5''	26:1H:1627:G:OP1	2.13	0.49
26:1H:1655:A:H3'	26:1H:1656:C:H6	1.77	0.49
26:1H:2050:C:H2'	26:1H:2051:A:C8	2.47	0.49
26:1H:2123:G:N2	28:71:42:GLU:OE2	2.45	0.49
27:16:44:G:C2	27:16:48:A:C2	3.00	0.49
29:11:223:GLY:HA3	29:11:231:HIS:ND1	2.27	0.49
31:31:114:VAL:HG21	31:31:202:PHE:CZ	2.48	0.49
32:41:37:VAL:HA	32:41:158:ALA:O	2.13	0.49
33:51:158:HIS:HA	33:51:170:ARG:HH21	1.78	0.49
52:M8:14:ILE:CG2	52:M8:21:VAL:HB	2.43	0.49
1:1G:181:G:O2'	1:1G:183:G:O6	2.31	0.49
1:1G:1084:G:C5	1:1G:1085:U:C4	3.00	0.49
1:1G:1145:C:H5''	1:1G:1146:A:OP1	2.13	0.49
1:1G:1180:A:OP2	9:82:97:LYS:NZ	2.46	0.49
1:1G:1330:U:H4'	13:4A:23:TYR:CE1	2.47	0.49
1:1G:1371:G:OP2	9:82:11:LYS:HG2	2.13	0.49
1:1G:1382:C:O2'	24:3L:34:U:H5	1.94	0.49
1:1G:1431:C:H2'	1:1G:1432:G:O4'	2.12	0.49
3:22:50:ALA:HB1	3:22:72:LYS:HB2	1.94	0.49
7:62:106:GLN:O	7:62:110:GLN:HG2	2.12	0.49
8:72:7:ALA:O	8:72:11:THR:OG1	2.29	0.49
9:82:17:VAL:HG11	9:82:81:ILE:HA	1.94	0.49
22:1L:8:U:H2'	22:1L:13:C:H42	1.77	0.49
23:2L:17:C:H3'	23:2L:18:C:H2'	1.93	0.49
26:14:372:G:OP2	49:F5:69:LYS:HE3	2.13	0.49
26:14:389:G:H1	37:35:71:VAL:HG12	1.78	0.49
26:14:717:G:H2'	26:14:718:A:O4'	2.12	0.49
26:14:1203:G:OP2	26:14:1204:A:H2'	2.13	0.49
26:14:1590:U:H2'	26:14:1591:G:C8	2.48	0.49
26:14:1729:A:C6	26:14:1731:G:C5	3.01	0.49
26:14:2208:U:H4'	29:19:151:LYS:HG2	1.92	0.49
26:14:2384:G:OP2	48:E5:55:ARG:NH1	2.43	0.49
32:49:103:LEU:HD22	32:49:178:PHE:HZ	1.76	0.49
36:25:71:ARG:HG2	36:25:105:GLU:OE2	2.13	0.49
45:B5:5:TYR:HD1	50:G5:33:MET:SD	2.36	0.49
45:B5:23:GLU:HG3	45:B5:25:LYS:HD2	1.95	0.49
46:C5:75:ILE:HA	46:C5:80:GLY:HA2	1.94	0.49
1:13:237:C:O3'	17:8I:25:ARG:NH2	2.46	0.49
1:13:965:A:OP1	1:13:1198:G:H5''	2.12	0.49
2:1E:106:LYS:O	2:1E:110:GLN:HG3	2.12	0.49
7:6E:63:LYS:HD2	7:6E:63:LYS:O	2.13	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1I:32:ALA:H	10:1I:78:ASN:HB2	1.78	0.49
19:AI:51:VAL:O	19:AI:57:HIS:HA	2.13	0.49
26:1H:227:A:C2	26:1H:2407:G:H1'	2.48	0.49
26:1H:665:C:H2'	26:1H:666:G:C8	2.48	0.49
26:1H:1535:U:H3'	26:1H:1537:C:C5	2.48	0.49
26:1H:1729:A:O2'	26:1H:1730:U:O5'	2.24	0.49
26:1H:1935:G:H1'	26:1H:1964:G:N2	2.28	0.49
26:1H:2705:A:H3'	26:1H:2706:G:H8	1.77	0.49
29:11:183:ARG:CD	29:11:270:ILE:HG12	2.42	0.49
30:21:36:ARG:NH1	30:21:85:ASN:OD1	2.46	0.49
30:21:117:MET:O	30:21:118:LYS:HB3	2.13	0.49
32:41:110:ALA:HA	32:41:140:ILE:O	2.12	0.49
1:1G:250:A:H4'	1:1G:251:G:O5'	2.13	0.49
1:1G:1021:G:H2'	1:1G:1022:G:C8	2.48	0.49
1:1G:1317:C:C3'	1:1G:1318:A:H5'	2.43	0.49
1:1G:1521:G:H2'	1:1G:1522:U:H6	1.76	0.49
9:82:21:PRO:HA	9:82:59:PHE:HD1	1.78	0.49
9:82:95:LYS:HZ1	9:82:96:LEU:HD13	1.76	0.49
9:82:119:ALA:O	9:82:120:ARG:HB2	2.13	0.49
13:4A:86:CYS:HB2	19:AA:73:GLU:HB3	1.95	0.49
14:5A:3:ARG:O	14:5A:6:LEU:HD13	2.12	0.49
17:8A:5:VAL:HA	17:8A:59:ILE:O	2.13	0.49
22:1L:28:U:N3	22:1L:42:A:H2	2.08	0.49
26:14:443:A:H1'	26:14:1201:C:O4'	2.13	0.49
26:14:1181:C:H2'	26:14:1182:A:C8	2.47	0.49
26:14:1496:A:H8	26:14:1577:C:O2'	1.96	0.49
26:14:1970:A:OP2	60:14:3421:HOH:O	2.20	0.49
26:14:2173:A:HO2'	26:14:2174:C:P	2.34	0.49
30:29:111:ARG:HB2	30:29:160:TYR:HB3	1.94	0.49
31:39:25:PRO:HA	31:39:27:GLU:OE1	2.13	0.49
32:49:60:LEU:HD21	32:49:92:VAL:HG11	1.95	0.49
34:69:133:HIS:CD2	34:69:134:PRO:HD3	2.47	0.49
38:45:132:VAL:HG21	47:D5:81:ARG:HE	1.76	0.49
42:85:47:TYR:CZ	42:85:51:LYS:HE2	2.48	0.49
44:A5:29:LEU:O	44:A5:33:ARG:HB2	2.13	0.49
49:F5:35:THR:O	49:F5:35:THR:HG23	2.13	0.49
1:13:590:C:N3	1:13:649:G:N2	2.60	0.49
1:13:926:G:H5''	1:13:927:G:O5'	2.13	0.49
1:13:1167:A:H2'	1:13:1169:A:C8	2.48	0.49
1:13:1432:G:OP1	41:B8:107:ASP:HB2	2.13	0.49
2:1E:16:HIS:CD2	2:1E:16:HIS:N	2.81	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:50:ARG:O	4:3E:50:ARG:HG3	2.11	0.49
4:3E:111:ALA:HB2	4:3E:120:LEU:CD1	2.42	0.49
4:3E:122:ARG:NH2	4:3E:134:ASP:CB	2.74	0.49
8:7E:87:SER:HB2	8:7E:93:VAL:H	1.77	0.49
13:4I:37:THR:O	13:4I:55:ARG:NH1	2.46	0.49
22:1K:4:U:H3'	22:1K:5:C:H6	1.78	0.49
26:1H:207:A:H2'	26:1H:208:C:O4'	2.13	0.49
26:1H:621:A:O4'	26:1H:621:A:N3	2.43	0.49
26:1H:1124:C:H2'	26:1H:1125:G:O4'	2.13	0.49
26:1H:2106:G:C6	26:1H:2184:G:C2	3.01	0.49
26:1H:2355:C:H5''	26:1H:2356:C:OP2	2.13	0.49
26:1H:2822:G:O2'	26:1H:2824:C:OP2	2.29	0.49
26:1H:2880:C:O2'	39:98:90:ARG:NH1	2.41	0.49
28:71:175:VAL:HG23	28:71:176:GLY:H	1.78	0.49
30:21:134:ILE:C	30:21:134:ILE:HD12	2.38	0.49
30:21:201:THR:CG2	30:21:203:LYS:H	2.24	0.49
31:31:107:LYS:HD2	31:31:207:GLY:H	1.78	0.49
31:31:164:ARG:HG3	31:31:175:THR:HB	1.94	0.49
32:41:173:LEU:HD22	32:41:178:PHE:CE2	2.48	0.49
35:58:95:PRO:O	35:58:96:GLU:CD	2.56	0.49
45:F8:12:VAL:HG23	45:F8:17:ALA:HB2	1.93	0.49
46:G8:55:TYR:HB3	46:G8:58:GLY:HA3	1.95	0.49
47:H8:30:ASN:ND2	47:H8:90:VAL:HG13	2.27	0.49
1:1G:643:C:H2'	1:1G:644:G:C8	2.45	0.49
1:1G:668:G:O2'	15:6A:46:HIS:HB3	2.13	0.49
1:1G:900:A:H2'	1:1G:901:A:O4'	2.13	0.49
1:1G:947:G:H5''	13:4A:109:THR:HG23	1.95	0.49
1:1G:976:G:N2	1:1G:1362:C:H2'	2.28	0.49
1:1G:1238:A:N3	1:1G:1241:G:O2'	2.40	0.49
1:1G:1279:A:H5''	1:1G:1280:A:OP2	2.13	0.49
3:22:6:HIS:HB3	14:5A:49:HIS:ND1	2.28	0.49
3:22:181:ASN:OD1	3:22:204:LEU:HB2	2.13	0.49
4:32:8:VAL:HG22	4:32:115:ARG:HH12	1.78	0.49
5:42:122:GLU:HG2	5:42:131:ILE:HD12	1.95	0.49
16:7A:43:LYS:HG2	16:7A:48:TRP:HZ3	1.78	0.49
19:AA:11:VAL:HG13	19:AA:39:THR:H	1.77	0.49
26:14:29:U:H2'	26:14:30:G:C8	2.48	0.49
26:14:864:G:C6	26:14:865:C:N4	2.80	0.49
26:14:1047:G:H2'	26:14:1047:G:N3	2.28	0.49
26:14:2117:A:H2'	26:14:2118:U:C6	2.48	0.49
31:39:126:VAL:N	31:39:194:MET:O	2.46	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:D5:100:VAL:O	47:D5:124:ILE:HG22	2.13	0.49
47:D5:100:VAL:HG11	47:D5:134:PRO:HB2	1.93	0.49
48:E5:36:ILE:HD12	48:E5:39:ARG:HG2	1.94	0.49
53:J5:11:THR:HG23	53:J5:15:ARG:HB3	1.95	0.49
1:13:421:U:OP2	1:13:422:C:N4	2.40	0.49
3:2E:57:ILE:HG12	3:2E:66:VAL:HG22	1.94	0.49
7:6E:121:ALA:O	7:6E:125:MET:HB2	2.12	0.49
13:4I:77:ASN:O	13:4I:81:LEU:N	2.45	0.49
24:3K:21:A:H61	24:3K:46:G:H2'	1.78	0.49
26:1H:176:G:C2'	26:1H:177:G:H5'	2.42	0.49
26:1H:298:G:H5''	26:1H:299:A:OP1	2.13	0.49
26:1H:960:A:C8	26:1H:962:G:C8	3.00	0.49
26:1H:1324:G:C4	26:1H:1328:G:O6	2.66	0.49
26:1H:1440:G:H2'	26:1H:1441:G:H8	1.77	0.49
26:1H:1952:A:H8	26:1H:1952:A:O5'	1.96	0.49
26:1H:2094:G:H2'	26:1H:2095:C:O4'	2.13	0.49
33:51:143:GLN:O	33:51:146:ALA:N	2.46	0.49
44:E8:86:LEU:C	44:E8:86:LEU:HD12	2.37	0.49
1:1G:34:C:H2'	1:1G:35:G:C8	2.48	0.49
1:1G:632:A:OP1	8:72:98:LYS:NZ	2.34	0.49
1:1G:1281:U:OP2	1:1G:1282:C:N4	2.46	0.49
1:1G:1306:A:C6	1:1G:1307:U:C2	3.01	0.49
2:12:35:GLU:HG3	2:12:40:HIS:CE1	2.48	0.49
9:82:24:GLY:HA2	9:82:59:PHE:C	2.38	0.49
12:3A:69:TYR:CG	12:3A:90:VAL:HG21	2.48	0.49
20:BA:49:ALA:HB2	20:BA:92:LEU:HD22	1.95	0.49
26:14:11:G:H2'	26:14:12:U:H5'	1.95	0.49
26:14:455:C:N3	26:14:473:G:H5'	2.27	0.49
26:14:852:G:H2'	26:14:853:G:H8	1.78	0.49
26:14:1110:G:O2'	26:14:1111:A:H5'	2.13	0.49
26:14:1115:G:C6	26:14:1116:C:C4	3.01	0.49
26:14:1278:A:H5''	39:55:36:THR:HG22	1.94	0.49
26:14:1590:U:H2'	26:14:1591:G:H8	1.77	0.49
26:14:2123:G:N2	26:14:2124:G:H1'	2.28	0.49
26:14:2162:G:H3'	26:14:2164:C:C5	2.48	0.49
41:75:35:LYS:HA	41:75:40:THR:HG22	1.95	0.49
54:L5:11:LYS:HE3	54:L5:15:THR:OG1	2.13	0.49
1:13:255:G:C6	1:13:256:U:C4	3.01	0.48
1:13:262:A:C6	1:13:263:A:C6	3.01	0.48
1:13:587:G:H4'	8:7E:3:THR:O	2.13	0.48
1:13:1053:G:H4'	1:13:1054:C:H5'	1.95	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:8:LYS:HD3	2:1E:8:LYS:H	1.77	0.48
7:6E:6:ARG:HG3	7:6E:6:ARG:O	2.12	0.48
26:1H:253:C:H2'	26:1H:254:G:O4'	2.13	0.48
26:1H:547:A:O2'	26:1H:548:A:N7	2.39	0.48
26:1H:552:G:C6	26:1H:553:U:C4	3.01	0.48
26:1H:1230:C:H2'	26:1H:1231:G:C8	2.48	0.48
26:1H:1268:A:H2'	26:1H:1269:A:O4'	2.13	0.48
26:1H:2065:C:H2'	26:1H:2066:C:C6	2.48	0.48
29:11:201:HIS:O	29:11:204:ILE:HG13	2.13	0.48
50:K8:64:LEU:CD2	50:K8:68:ARG:HD2	2.42	0.48
1:1G:247:G:OP2	17:8A:100:LYS:HG3	2.13	0.48
1:1G:264:U:H2'	1:1G:265:G:O4'	2.13	0.48
1:1G:409:G:H1	1:1G:433:C:H42	1.61	0.48
1:1G:742:G:H5''	15:6A:58:MET:HE1	1.94	0.48
1:1G:955:U:H2'	1:1G:956:U:H6	1.78	0.48
1:1G:1502:A:H2	1:1G:1505:G:N1	2.06	0.48
5:42:92:LYS:HB2	5:42:119:LEU:HB2	1.95	0.48
12:3A:117:ARG:HH22	12:3A:124:LYS:HG3	1.78	0.48
13:4A:84:ILE:HG23	19:AA:74:PHE:CE1	2.48	0.48
19:AA:17:GLU:O	19:AA:20:LEU:HB2	2.13	0.48
26:14:521:G:H2'	26:14:522:G:C8	2.48	0.48
26:14:1378:A:O2'	26:14:1380:G:N7	2.44	0.48
26:14:2137:C:H42	26:14:2154:G:H1	1.60	0.48
26:14:2652:C:H2'	26:14:2653:U:O4'	2.12	0.48
29:19:121:PRO:HB3	29:19:135:PHE:CE2	2.48	0.48
30:29:98:PRO:HG3	30:29:175:VAL:HG12	1.94	0.48
34:69:7:GLU:HB2	34:69:8:PRO:HD2	1.94	0.48
42:85:29:SER:OG	42:85:30:LYS:NZ	2.32	0.48
55:M5:22:VAL:O	55:M5:50:LEU:HB2	2.13	0.48
1:13:411:A:O2'	1:13:413:G:H5'	2.14	0.48
1:13:1060:C:C5	3:2E:2:GLY:HA2	2.49	0.48
1:13:1145:C:H4'	1:13:1146:A:H5'	1.95	0.48
1:13:1145:C:H5''	1:13:1146:A:OP1	2.14	0.48
2:1E:98:LEU:HB2	2:1E:101:MET:HG3	1.95	0.48
2:1E:209:ARG:NH1	2:1E:239:VAL:HA	2.28	0.48
5:4E:110:LEU:HD13	5:4E:118:ILE:HG21	1.95	0.48
8:7E:4:ASP:CG	8:7E:85:ARG:HH12	2.19	0.48
8:7E:102:ARG:HD3	8:7E:102:ARG:N	2.27	0.48
9:8E:25:LYS:HG2	9:8E:26:VAL:N	2.28	0.48
13:4I:82:MET:O	13:4I:83:ASP:HB3	2.14	0.48
19:AI:53:ASN:O	19:AI:77:THR:HG22	2.12	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1050:A:C8	26:1H:2751:G:C8	3.01	0.48
26:1H:1188:U:O2'	26:1H:1189:A:H5'	2.12	0.48
26:1H:1466:G:N3	26:1H:1547:C:N4	2.61	0.48
26:1H:1561:G:H2'	26:1H:1562:A:H8	1.77	0.48
26:1H:2472:G:O2'	26:1H:2478:A:N6	2.46	0.48
26:1H:2575:C:O5'	26:1H:2575:C:H6	1.96	0.48
26:1H:2576:G:O2'	26:1H:2579:C:OP2	2.23	0.48
27:16:17:C:H2'	27:16:18:G:O4'	2.13	0.48
31:31:36:VAL:O	31:31:40:GLN:HG3	2.12	0.48
42:C8:88:ILE:C	42:C8:90:VAL:N	2.71	0.48
1:1G:265:G:H2'	1:1G:267:C:H5	1.78	0.48
1:1G:652:U:H2'	1:1G:653:A:H5''	1.96	0.48
1:1G:737:A:H2'	1:1G:738:C:C6	2.47	0.48
1:1G:995:C:O2'	1:1G:996:A:H5'	2.13	0.48
1:1G:996:A:H8	1:1G:996:A:OP2	1.96	0.48
1:1G:1129:C:C5	1:1G:1139:G:N1	2.81	0.48
1:1G:1432:G:OP1	41:75:107:ASP:HB2	2.13	0.48
3:22:32:LEU:HB3	3:22:59:ARG:HH12	1.78	0.48
12:3A:27:LEU:CD2	12:3A:60:LEU:HB3	2.42	0.48
15:6A:10:LYS:HG2	15:6A:11:VAL:N	2.27	0.48
15:6A:70:LEU:HG	15:6A:78:TYR:HB2	1.94	0.48
26:14:97:C:H5''	50:G5:2:LYS:HA	1.95	0.48
26:14:273(C):C:N4	26:14:363(C):G:H1	2.09	0.48
26:14:971:C:H2'	26:14:972:G:O4'	2.13	0.48
26:14:1312:U:H4'	26:14:1313:U:O5'	2.13	0.48
26:14:2140:C:H2'	26:14:2141:G:H8	1.78	0.48
26:14:2688:U:H5	26:14:2720:U:OP2	1.97	0.48
26:14:2832:U:H3'	26:14:2833:G:C8	2.47	0.48
26:14:2850:A:H2'	26:14:2851:A:C8	2.48	0.48
30:29:173:VAL:N	30:29:183:LEU:O	2.33	0.48
32:49:120:LEU:HG	32:49:179:PRO:O	2.13	0.48
39:55:106:GLY:O	39:55:107:ASP:HB3	2.12	0.48
46:C5:36:ALA:HA	46:C5:67:LEU:O	2.13	0.48
55:M5:40:GLU:HA	55:M5:43:GLN:HB3	1.95	0.48
1:13:44:G:C2	1:13:45:U:H1'	2.48	0.48
1:13:191(F):U:O2	20:BI:105:SER:HB2	2.13	0.48
1:13:340:U:H2'	1:13:341:C:O4'	2.14	0.48
1:13:967:C:H3'	1:13:968:A:C8	2.48	0.48
1:13:1070:U:H2'	1:13:1071:C:H6	1.78	0.48
5:4E:6:PHE:HD2	5:4E:63:ARG:HH11	1.60	0.48
9:8E:112:LYS:CA	9:8E:119:ALA:HB2	2.42	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1I:80:LYS:HE3	10:1I:84:GLN:HE21	1.77	0.48
12:3I:66:VAL:HG22	12:3I:67:THR:H	1.77	0.48
16:7I:20:VAL:CG2	16:7I:32:TYR:HB2	2.44	0.48
17:8I:22:LEU:HD12	17:8I:40:LYS:O	2.13	0.48
26:1H:552:G:H2'	26:1H:553:U:O4'	2.13	0.48
26:1H:562:U:C4	26:1H:2036:C:O4'	2.66	0.48
26:1H:945:A:OP2	60:1H:3553:HOH:O	2.19	0.48
26:1H:1348:G:C3'	26:1H:1349:A:H5''	2.42	0.48
26:1H:1388:G:H2'	26:1H:1389:G:C8	2.47	0.48
26:1H:2341:G:H2'	26:1H:2342:C:C6	2.49	0.48
26:1H:2649:U:H2'	26:1H:2650:U:C6	2.48	0.48
26:1H:2705:A:O2'	26:1H:2852:G:OP1	2.23	0.48
28:7I:4:GLY:HA3	28:7I:6:ARG:HH22	1.78	0.48
46:G8:100:ALA:HB1	46:G8:101:LYS:HG3	1.94	0.48
52:M8:15:ILE:O	52:M8:33:VAL:HB	2.13	0.48
1:1G:539:A:H2'	1:1G:540:G:H8	1.73	0.48
1:1G:669:U:OP1	15:6A:48:LYS:HE3	2.13	0.48
1:1G:789:U:O2	1:1G:792:A:H8	1.96	0.48
1:1G:1148:U:H2'	1:1G:1149:C:O4'	2.13	0.48
1:1G:1181:G:C2	1:1G:1182:G:H1'	2.48	0.48
1:1G:1343:G:H4'	9:82:122:ALA:HB3	1.93	0.48
5:42:142:LEU:O	5:42:143:ARG:HD2	2.14	0.48
9:82:50:LEU:HD23	9:82:85:LEU:HD22	1.95	0.48
12:3A:27:LEU:HB3	12:3A:33:ARG:HG2	1.95	0.48
23:2L:62:C:H2'	23:2L:63:C:C6	2.46	0.48
26:14:445:C:O2'	26:14:446:G:H5'	2.13	0.48
26:14:686:G:H21	26:14:788:A:H61	1.59	0.48
26:14:878:A:H5'	26:14:900:A:H61	1.78	0.48
26:14:1210:A:C5'	26:14:1212:G:H5'	2.42	0.48
26:14:1505:C:H2'	26:14:1506:C:C6	2.49	0.48
26:14:2068:U:N3	26:14:2430:A:C2	2.70	0.48
26:14:2416:C:OP1	37:35:65:ARG:O	2.31	0.48
27:1J:18:G:H1	27:1J:65:C:N4	2.09	0.48
30:29:56:PRO:HD2	30:29:58:ARG:NH2	2.28	0.48
37:35:59:LEU:HD23	55:M5:58:ILE:HD12	1.95	0.48
37:35:124:LYS:HA	37:35:143:GLY:O	2.14	0.48
1:13:1175:G:H2'	1:13:1176:A:C8	2.48	0.48
2:1E:49:GLU:H	2:1E:49:GLU:CD	2.20	0.48
2:1E:72:GLY:HA2	2:1E:165:VAL:CG2	2.44	0.48
4:3E:122:ARG:HH22	4:3E:134:ASP:CB	2.25	0.48
6:5E:62:TRP:C	6:5E:63:TYR:HD1	2.21	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2I:21:ILE:HG12	11:2I:30:VAL:HG12	1.95	0.48
19:AI:41:VAL:H	19:AI:44:MET:HG3	1.78	0.48
19:AI:64:GLU:O	19:AI:67:VAL:HG23	2.13	0.48
26:1H:140:A:H8	26:1H:1408:C:HO2'	1.55	0.48
26:1H:862:G:H2'	26:1H:863:A:O4'	2.14	0.48
26:1H:1320:C:O2'	26:1H:1329:U:OP2	2.20	0.48
26:1H:1479:G:O2'	26:1H:1558:A:H5'	2.14	0.48
26:1H:1769:G:O2'	26:1H:1958:C:OP1	2.25	0.48
26:1H:2638:G:OP1	30:21:82:ARG:NH2	2.46	0.48
26:1H:2682:U:H5'	26:1H:2682:U:H6	1.78	0.48
29:11:183:ARG:HH11	29:11:269:PHE:CB	2.16	0.48
36:68:76:ALA:HB3	41:B8:75:ILE:HD12	1.93	0.48
42:C8:50:ARG:HH22	43:D8:72:VAL:HG23	1.79	0.48
43:D8:3:ALA:HB1	43:D8:38:LEU:HD22	1.94	0.48
47:H8:113:ALA:N	47:H8:114:GLY:HA2	2.28	0.48
1:1G:9:G:H5'	5:42:122:GLU:OE2	2.12	0.48
1:1G:831:U:H3	1:1G:855:G:H1	1.62	0.48
1:1G:1008:C:N4	1:1G:1021:G:H22	2.09	0.48
1:1G:1330:U:H5'	13:4A:24:GLY:H	1.78	0.48
1:1G:1354:C:O5'	1:1G:1354:C:H6	1.95	0.48
2:12:168:THR:CG2	2:12:192:SER:HA	2.42	0.48
4:32:22:LYS:O	4:32:113:SER:HB3	2.13	0.48
4:32:36:ARG:HB2	4:32:38:TYR:CZ	2.48	0.48
19:AA:11:VAL:HG12	19:AA:12:ASP:H	1.78	0.48
35:15:104:LYS:HA	35:15:107:LEU:HD12	1.95	0.48
37:35:6:LEU:HD12	37:35:6:LEU:HA	1.46	0.48
42:85:108:GLU:OE2	43:95:44:LYS:HB3	2.13	0.48
45:B5:51:VAL:HG13	45:B5:81:VAL:CG2	2.44	0.48
1:13:179:A:H2'	1:13:180:U:C6	2.48	0.48
1:13:223:U:H2'	1:13:224:C:C6	2.47	0.48
1:13:316:G:O2'	1:13:317:G:H5'	2.12	0.48
1:13:874:G:C6	1:13:875:C:C4	3.01	0.48
2:1E:12:GLU:HB3	2:1E:44:LEU:HD13	1.94	0.48
4:3E:148:VAL:HG21	4:3E:158:ILE:HG21	1.94	0.48
8:7E:25:ASP:OD1	8:7E:60:ARG:HG3	2.13	0.48
9:8E:11:LYS:C	9:8E:13:ALA:H	2.22	0.48
26:1H:182:A:C6	26:1H:183:C:C4	3.02	0.48
26:1H:430:G:H5''	26:1H:431:U:OP2	2.14	0.48
26:1H:654(A):A:N1	26:1H:654(T):A:N1	2.62	0.48
26:1H:1183:G:O2'	51:L8:29:ARG:NH1	2.46	0.48
26:1H:1992:G:H5'	26:1H:1994:C:H41	1.78	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2122:U:O2	28:71:172:HIS:NE2	2.47	0.48
26:1H:2139:C:H41	26:1H:2152:G:N2	2.12	0.48
26:1H:2663:G:C2	26:1H:2664:G:H1'	2.48	0.48
30:21:152:LYS:HG2	35:58:78:TYR:CE1	2.49	0.48
34:61:41:GLU:OE2	34:61:42:SER:OG	2.20	0.48
41:B8:20:PRO:HD2	41:B8:86:ILE:HG23	1.95	0.48
45:F8:57:LEU:N	45:F8:57:LEU:HD23	2.28	0.48
46:G8:49:VAL:HG21	46:G8:55:TYR:CE2	2.49	0.48
1:1G:193:C:H2'	1:1G:194:C:C6	2.49	0.48
1:1G:438:G:N1	1:1G:495:A:OP2	2.43	0.48
1:1G:580:U:H2'	1:1G:581:G:O4'	2.13	0.48
1:1G:991:U:O4	1:1G:1212:U:O2'	2.24	0.48
1:1G:998(A):C:H2'	1:1G:999:U:H6	1.78	0.48
1:1G:1259:C:N4	1:1G:1260:C:O2	2.47	0.48
1:1G:1369:C:H2'	1:1G:1370:G:H8	1.77	0.48
1:1G:1517:G:H1'	26:14:1919:A:O3'	2.13	0.48
2:12:71:VAL:HG11	2:12:164:VAL:HG13	1.94	0.48
4:32:63:LYS:O	4:32:67:ILE:HG13	2.14	0.48
4:32:150:GLU:O	4:32:152:SER:N	2.46	0.48
6:52:5:GLU:HB3	6:52:62:TRP:HE1	1.78	0.48
7:62:23:VAL:O	7:62:27:ILE:HG12	2.13	0.48
8:72:110:ALA:HB3	8:72:121:ASP:HB2	1.95	0.48
9:82:10:ARG:HH21	9:82:107:ARG:HB2	1.77	0.48
10:1A:24:VAL:HG21	10:1A:37:PRO:HD3	1.94	0.48
16:7A:68:ASP:O	16:7A:71:ARG:HB3	2.13	0.48
26:14:839:U:H2'	26:14:840:C:H6	1.77	0.48
26:14:946:G:H2'	26:14:947:G:C8	2.49	0.48
26:14:1015:G:O2'	26:14:1016:G:H5'	2.13	0.48
26:14:1106:G:H8	26:14:1107:G:C8	2.32	0.48
26:14:1839:G:C8	26:14:1927:A:H1'	2.49	0.48
26:14:1939:U:OP1	26:14:2604:U:O2'	2.24	0.48
26:14:2444:G:OP2	31:39:68:LYS:NZ	2.34	0.48
26:14:2488:A:H8	26:14:2488:A:O5'	1.95	0.48
26:14:2816:C:O2	26:14:2883:A:O2'	2.32	0.48
28:79:45:ALA:C	28:79:171:ILE:HB	2.39	0.48
38:45:27:VAL:HG12	47:D5:81:ARG:NH2	2.29	0.48
38:45:45:GLN:H	38:45:45:GLN:CD	2.21	0.48
40:65:26:LEU:O	40:65:88:ASP:N	2.47	0.48
42:85:91:ASP:OD1	42:85:96:ALA:HB2	2.13	0.48
47:D5:11:GLU:CD	47:D5:12:GLY:H	2.22	0.48
47:D5:99:TYR:HA	47:D5:124:ILE:O	2.13	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:H5:8:LEU:HD22	51:H5:31:LEU:HD12	1.95	0.48
1:13:158:G:C4	1:13:159:G:C8	3.02	0.48
1:13:377:G:H5'	16:7I:5:ARG:NH1	2.27	0.48
1:13:413:G:H21	1:13:428:G:H1'	1.79	0.48
1:13:663:A:O3'	18:9I:64:ARG:NH2	2.45	0.48
1:13:827:U:C4	1:13:870:U:N3	2.82	0.48
2:1E:27:LYS:HB2	2:1E:194:PRO:HD2	1.96	0.48
3:2E:77:ILE:HG22	3:2E:81:GLY:HA2	1.95	0.48
4:3E:194:LEU:HG	4:3E:196:LEU:HG	1.94	0.48
10:1I:55:LYS:O	10:1I:56:HIS:CG	2.66	0.48
11:2I:50:TYR:HD2	11:2I:54:ARG:HB2	1.77	0.48
26:1H:184:C:H1'	26:1H:217:G:H1'	1.94	0.48
26:1H:690:G:O2'	29:11:43:ARG:NH2	2.46	0.48
26:1H:950:G:H2'	26:1H:951:C:C6	2.49	0.48
26:1H:1263:U:H2'	26:1H:1264:G:O4'	2.14	0.48
26:1H:1534:G:N3	26:1H:1534:G:H2'	2.29	0.48
26:1H:1793:C:H2'	26:1H:1794:U:H6	1.79	0.48
30:21:64:LYS:O	30:21:70:ALA:HB2	2.14	0.48
31:31:6:VAL:HG12	31:31:7:TYR:H	1.77	0.48
38:88:55:VAL:HG12	38:88:64:ILE:HD12	1.95	0.48
38:88:66:ILE:O	38:88:67:ARG:HB2	2.12	0.48
40:A8:11:LYS:O	40:A8:15:ARG:HG2	2.13	0.48
40:A8:15:ARG:HB3	40:A8:19:LYS:HE2	1.96	0.48
1:1G:521:G:O5'	12:3A:73:GLU:HG2	2.14	0.48
1:1G:613:C:H2'	1:1G:614:A:O4'	2.14	0.48
1:1G:694:A:O2'	24:3L:38:A:O2'	2.24	0.48
1:1G:1037:C:H2'	1:1G:1038:C:H6	1.77	0.48
1:1G:1371:G:OP1	9:82:11:LYS:HB3	2.14	0.48
1:1G:1414:U:H2'	1:1G:1415:G:C8	2.48	0.48
2:12:219:VAL:CG2	2:12:221:LEU:H	2.26	0.48
3:22:11:ARG:HB3	3:22:15:THR:OG1	2.14	0.48
17:8A:56:VAL:O	17:8A:77:VAL:N	2.37	0.48
26:14:279:C:H42	26:14:361:G:H1	1.60	0.48
26:14:1421:G:C2	26:14:1422:G:C8	3.02	0.48
30:29:52:LEU:HD12	30:29:52:LEU:HA	1.55	0.48
32:49:145:THR:C	32:49:147:ASP:H	2.21	0.48
37:35:132:LYS:HZ1	37:35:135:LEU:HD11	1.79	0.48
38:45:75:THR:HB	38:45:86:GLY:HA3	1.96	0.48
38:45:102:VAL:O	38:45:102:VAL:HG12	2.13	0.48
38:45:126:PRO:O	38:45:127:ILE:HG23	2.13	0.48
39:55:13:HIS:ND1	39:55:15:SER:HB3	2.29	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:55:29:LEU:HB3	39:55:75:LEU:HD21	1.95	0.48
41:75:88:ILE:HG12	41:75:91:ARG:NH2	2.28	0.48
49:F5:80:LEU:HD12	49:F5:82:LEU:CB	2.44	0.48
55:M5:48:PHE:CB	55:M5:49:VAL:HG22	2.30	0.48
1:13:49:U:C2	1:13:361:G:N2	2.82	0.48
1:13:153:C:H42	1:13:168:G:H22	1.61	0.48
1:13:302:G:C6	1:13:303:A:C5	3.02	0.48
1:13:686:U:O4	1:13:703:G:H1'	2.14	0.48
1:13:1217:C:OP1	14:5I:9:LYS:NZ	2.46	0.48
8:7E:32:LYS:O	8:7E:36:LEU:HD12	2.14	0.48
11:2I:69:ALA:O	11:2I:73:MET:HG3	2.14	0.48
12:3I:53:ARG:HH12	12:3I:92:ASP:CG	2.21	0.48
15:6I:39:LEU:HD13	15:6I:56:LEU:HB2	1.96	0.48
16:7I:13:HIS:C	16:7I:15:PRO:HD3	2.39	0.48
19:AI:5:LEU:HD22	19:AI:10:PHE:CE2	2.48	0.48
22:1K:23:A:H2'	22:1K:24:G:C1'	2.43	0.48
24:3K:24:G:O5'	24:3K:24:G:H8	1.96	0.48
26:1H:195:A:H4'	26:1H:251:A:O2'	2.13	0.48
26:1H:863:A:H2'	26:1H:864:G:H8	1.78	0.48
26:1H:1260:G:C5	26:1H:1261:C:C5	3.02	0.48
26:1H:1316:U:H2'	26:1H:1317:A:H8	1.78	0.48
26:1H:1394:U:H4'	26:1H:1603:A:H4'	1.95	0.48
26:1H:1533:C:C5	26:1H:1534:G:H3'	2.48	0.48
31:31:78:ILE:HA	31:31:83:PHE:CD2	2.48	0.48
32:41:76:SER:OG	32:41:84:LYS:N	2.46	0.48
50:K8:8:LYS:O	50:K8:11:GLU:HG2	2.13	0.48
50:K8:42:GLY:C	50:K8:44:LEU:N	2.65	0.48
1:1G:948:C:OP1	13:4A:109:THR:OG1	2.29	0.48
1:1G:1117:G:H4'	9:82:104:ARG:HD2	1.94	0.48
2:12:18:GLY:CA	2:12:41:ILE:HD13	2.44	0.48
22:1L:1:G:H1	22:1L:72:C:N4	1.99	0.48
22:1L:25:C:C2	22:1L:26:A:H1'	2.49	0.48
26:14:590:A:H2'	26:14:591:C:H6	1.79	0.48
26:14:718:A:H3'	26:14:719:C:C6	2.48	0.48
26:14:870:A:C5'	38:45:6:ARG:HB3	2.44	0.48
26:14:1410:G:N2	26:14:1592:C:O2	2.45	0.48
26:14:1569:A:H2'	26:14:1570:A:C8	2.49	0.48
26:14:1891:G:C6	26:14:1892:C:C4	3.01	0.48
26:14:2286:A:H4'	26:14:2287:A:O4'	2.14	0.48
26:14:2320:A:H1'	26:14:2321:G:C6	2.49	0.48
26:14:2690:C:OP1	39:55:17:ARG:NH1	2.40	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2698:U:H2'	26:14:2699:C:C6	2.48	0.48
27:1J:15:A:H5'	27:1J:16:G:C8	2.48	0.48
28:79:20:TYR:N	28:79:223:ARG:O	2.45	0.48
29:19:61:LEU:HB3	29:19:63:ARG:NH1	2.29	0.48
31:39:130:ALA:H	31:39:142:TRP:HD1	1.61	0.48
31:39:192:LEU:HD22	31:39:194:MET:HE2	1.96	0.48
34:69:130:TYR:N	34:69:136:VAL:O	2.43	0.48
37:35:84:ASN:ND2	37:35:117:GLU:HB3	2.29	0.48
47:D5:62:PRO:O	47:D5:63:ASP:HB3	2.13	0.48
48:E5:24:LYS:N	48:E5:37:LEU:O	2.37	0.48
51:H5:40:THR:HG23	51:H5:43:ILE:HG13	1.95	0.48
1:13:454:C:H3'	1:13:455:C:C5	2.48	0.48
1:13:595:G:H1'	1:13:596:C:H5	1.77	0.48
1:13:715:A:H2'	1:13:716:A:C8	2.49	0.48
1:13:1203:C:H2'	1:13:1204:A:O4'	2.14	0.48
2:1E:161:ALA:O	2:1E:162:ILE:HD13	2.13	0.48
3:2E:124:ILE:HG21	3:2E:196:LEU:HD12	1.96	0.48
4:3E:67:ILE:HD13	4:3E:196:LEU:HD22	1.95	0.48
11:2I:59:TYR:CZ	11:2I:63:LEU:HD11	2.49	0.48
12:3I:90:VAL:HB	12:3I:96:VAL:CG2	2.43	0.48
26:1H:1019:U:OP1	26:1H:1035:U:O2'	2.29	0.48
26:1H:1831:G:H2'	26:1H:1832:C:C6	2.49	0.48
26:1H:2352:A:C4	26:1H:2366:A:C2	3.02	0.48
32:41:101:ILE:HD12	32:41:102:PHE:N	2.28	0.48
33:51:155:SER:HB2	33:51:160:LYS:O	2.14	0.48
37:78:97:PRO:HD3	37:78:126:VAL:O	2.13	0.48
39:98:51:LEU:HD13	39:98:70:LEU:HD11	1.95	0.48
41:B8:125:ARG:O	41:B8:129:ARG:N	2.36	0.48
46:G8:87:LYS:HB2	46:G8:96:ILE:HD13	1.95	0.48
55:Q8:52:LYS:HB3	55:Q8:53:PRO:CD	2.44	0.48
1:1G:363:A:N7	12:3A:33:ARG:NH1	2.62	0.48
1:1G:450:G:N7	1:1G:481:G:C6	2.82	0.48
1:1G:681:C:H2'	1:1G:682:G:C8	2.49	0.48
1:1G:985:C:H2'	1:1G:986:A:C8	2.48	0.48
1:1G:1127:G:O2'	1:1G:1128:C:H5'	2.14	0.48
1:1G:1325:C:H2'	1:1G:1326:C:H6	1.77	0.48
7:62:73:MET:HA	7:62:91:VAL:HG23	1.94	0.48
10:1A:39:PRO:HA	10:1A:70:ARG:HD3	1.96	0.48
26:14:212:G:H2'	26:14:213:A:O4'	2.14	0.48
26:14:557:U:H2'	26:14:558:G:H8	1.79	0.48
26:14:2495:G:O3'	38:45:81:VAL:HG12	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2822:G:O2'	26:14:2825:C:N4	2.47	0.48
26:14:2880:C:O2'	39:55:90:ARG:HD3	2.13	0.48
29:19:12:SER:O	29:19:16:MET:HB2	2.14	0.48
29:19:49:ILE:HD12	29:19:52:ARG:HA	1.96	0.48
30:29:81:ILE:O	30:29:82:ARG:HB2	2.12	0.48
34:69:45:LYS:HA	34:69:48:GLU:HB3	1.95	0.48
46:C5:83:THR:HG22	46:C5:84:ARG:H	1.77	0.48
1:13:632:A:H2'	1:13:633:G:O4'	2.12	0.48
1:13:1157:A:O2'	1:13:1158:C:OP2	2.28	0.48
19:AI:25:LYS:HD2	19:AI:25:LYS:HA	1.66	0.48
24:3K:51:A:N6	24:3K:63:U:H3	2.12	0.48
26:1H:271(B):G:H4'	26:1H:271(C):U:O5'	2.13	0.48
26:1H:651:G:H4'	55:Q8:18:ALA:HB3	1.96	0.48
26:1H:1359:A:H5'	26:1H:1359:A:N3	2.28	0.48
26:1H:1818:U:O4	29:11:154:LYS:HE3	2.13	0.48
26:1H:2369:A:H2'	26:1H:2370:G:H8	1.79	0.48
33:51:83:TYR:HB2	33:51:84:SER:H	1.55	0.48
34:61:42:SER:O	34:61:45:LYS:N	2.47	0.48
39:98:22:ARG:HG2	39:98:69:ASP:HB3	1.96	0.48
47:H8:124:ILE:HD12	47:H8:125:LEU:H	1.79	0.48
1:1G:690:G:C6	1:1G:691:G:C6	3.02	0.48
7:62:47:CYS:HB3	7:62:58:PRO:HB3	1.96	0.48
9:82:49:PRO:HB3	9:82:101:PHE:CD2	2.49	0.48
13:4A:22:ILE:HB	13:4A:25:ILE:HG13	1.94	0.48
14:5A:60:SER:C	14:5A:61:TRP:HE3	2.22	0.48
17:8A:48:GLU:CB	17:8A:50:LYS:HB2	2.36	0.48
24:3L:11:C:H42	24:3L:13:C:H41	1.60	0.48
26:14:173:G:N3	26:14:173:G:H2'	2.28	0.48
26:14:322:A:OP2	31:39:169:ASN:HB2	2.14	0.48
26:14:433:C:H2'	26:14:434:U:C6	2.48	0.48
26:14:901:A:H3'	26:14:902:C:C6	2.48	0.48
26:14:1101:U:H2'	26:14:1102:C:O4'	2.13	0.48
26:14:1999:C:H5''	26:14:2723:C:O2'	2.14	0.48
26:14:2176:A:H2	28:79:172:HIS:CD2	2.32	0.48
26:14:2400:G:H3'	26:14:2401:U:H6	1.79	0.48
26:14:2862:G:H2'	26:14:2863:C:C6	2.49	0.48
30:29:10:GLY:C	41:75:8:LYS:HZ3	2.21	0.48
33:59:9:ILE:HG22	33:59:52:VAL:H	1.78	0.48
37:35:13:ASN:C	37:35:15:ARG:N	2.66	0.48
37:35:95:VAL:HG13	37:35:125:VAL:HA	1.94	0.48
40:65:35:ILE:HB	40:65:97:ARG:NH2	2.27	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:A5:13:SER:HB3	44:A5:16:LYS:HD2	1.96	0.48
45:B5:63:LYS:HD3	45:B5:63:LYS:O	2.13	0.48
47:D5:72:ARG:HD3	47:D5:72:ARG:HA	1.70	0.48
1:13:474:G:C2	1:13:475:G:C4	3.01	0.48
1:13:598:U:H4'	8:7E:94:TYR:CG	2.49	0.48
1:13:635:G:O2'	17:8I:2:PRO:HD3	2.14	0.48
1:13:765:G:H5''	1:13:766:A:OP1	2.14	0.48
1:13:872:A:N3	1:13:872:A:H2'	2.29	0.48
1:13:1289:A:H5'	21:1F:10:ARG:NH2	2.29	0.48
4:3E:60:GLU:OE2	4:3E:199:ASN:N	2.43	0.48
6:5E:22:GLU:O	6:5E:26:ILE:HG13	2.14	0.48
8:7E:98:LYS:H	8:7E:98:LYS:CD	2.26	0.48
11:2I:19:ALA:HB2	11:2I:32:ILE:HG23	1.96	0.48
15:6I:53:HIS:CD2	15:6I:57:LEU:HD11	2.49	0.48
23:2K:10:G:N2	23:2K:27:G:H1'	2.29	0.48
26:1H:152:G:H1	26:1H:174:C:H42	1.62	0.48
26:1H:355:G:H2'	26:1H:356:G:H8	1.79	0.48
26:1H:588:U:H2'	26:1H:589:C:C6	2.49	0.48
26:1H:1454:U:O2'	26:1H:1455:G:N7	2.43	0.48
26:1H:1705:G:H2'	26:1H:1706:U:H5'	1.95	0.48
26:1H:2128:C:H2'	26:1H:2129:C:O4'	2.14	0.48
26:1H:2171:A:H2'	26:1H:2172:U:C6	2.49	0.48
27:16:28:C:OP1	40:A8:36:TYR:OH	2.27	0.48
27:16:43:C:OP1	52:M8:2:LYS:HB3	2.13	0.48
29:11:26:LYS:HB3	29:11:29:PRO:HG3	1.95	0.48
32:41:98:ARG:HH21	52:M8:1:MET:HE3	1.74	0.48
33:51:15:VAL:HG22	33:51:29:PRO:HD2	1.95	0.48
34:61:144:VAL:HG13	34:61:145:VAL:HG12	1.96	0.48
1:1G:920:U:H2'	1:1G:921:U:C6	2.48	0.48
1:1G:1106:G:H4'	3:22:171:GLY:O	2.14	0.48
2:12:55:PHE:O	2:12:59:GLU:N	2.39	0.48
9:82:16:ARG:CZ	9:82:64:THR:HG21	2.44	0.48
19:AA:66:MET:H	19:AA:67:VAL:HB	1.79	0.48
20:BA:67:ALA:HB2	20:BA:77:ALA:HB2	1.96	0.48
26:14:1512:G:H2'	26:14:1513:C:C6	2.49	0.48
26:14:2033:A:O2'	26:14:2035:G:OP2	2.19	0.48
27:1J:56:G:H4'	27:1J:57:A:H8	1.79	0.48
32:49:96:ARG:C	32:49:98:ARG:H	2.22	0.48
37:35:101:VAL:HA	37:35:105:LEU:O	2.14	0.48
37:35:138:LEU:HD12	37:35:144:GLU:OE2	2.14	0.48
44:A5:20:VAL:O	44:A5:23:LEU:HB2	2.14	0.48

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:105:G:H2'	1:13:106:C:C6	2.49	0.47
1:13:687:A:N1	1:13:700:G:O2'	2.41	0.47
10:1I:80:LYS:HE3	10:1I:84:GLN:NE2	2.29	0.47
13:4I:66:LEU:O	13:4I:70:LEU:HB2	2.14	0.47
13:4I:92:HIS:O	13:4I:95:GLY:N	2.46	0.47
24:3K:27:G:N2	24:3K:44:U:H1'	2.29	0.47
24:3K:60:U:H6	24:3K:60:U:O5'	1.97	0.47
24:3K:75:C:O2'	24:3K:76:A:H2	1.97	0.47
26:1H:1026:U:O2	26:1H:1027:A:H3'	2.14	0.47
26:1H:1468:C:H2'	26:1H:1469:A:H8	1.79	0.47
26:1H:1887:C:N4	26:1H:1888:G:N7	2.62	0.47
26:1H:1965:C:H3'	26:1H:1966:A:H2'	1.94	0.47
26:1H:2164:C:OP1	26:1H:2166:G:N1	2.46	0.47
26:1H:2714:G:P	60:1H:3529:HOH:O	2.72	0.47
28:71:15:ASP:H	28:71:222:VAL:HG13	1.79	0.47
28:71:20:TYR:CB	28:71:25:ALA:HB2	2.44	0.47
33:51:81:GLU:HB2	33:51:83:TYR:CZ	2.49	0.47
36:68:52:VAL:O	36:68:53:LYS:HD2	2.14	0.47
37:78:71:VAL:HG13	37:78:72:PRO:CD	2.44	0.47
38:88:51:ARG:HH21	38:88:52:VAL:HG22	1.79	0.47
1:1G:113:G:O4'	1:1G:354:G:H4'	2.13	0.47
1:1G:228:A:C4'	16:7A:62:VAL:HG11	2.44	0.47
1:1G:308:C:H2'	1:1G:309:G:C8	2.49	0.47
1:1G:373:A:N3	1:1G:374:A:C8	2.82	0.47
1:1G:614:A:C4	1:1G:615:C:C5	3.02	0.47
1:1G:922:G:C6	1:1G:923:A:C6	3.02	0.47
1:1G:1165:C:H2'	1:1G:1166:G:O4'	2.13	0.47
2:12:114:ARG:O	2:12:118:LEU:HG	2.13	0.47
3:22:8:ILE:HG23	3:22:16:ARG:HG2	1.94	0.47
3:22:76:VAL:HG23	3:22:84:ILE:HG13	1.96	0.47
13:4A:8:GLU:CD	13:4A:9:ILE:H	2.22	0.47
13:4A:25:ILE:O	13:4A:29:ARG:HB2	2.14	0.47
15:6A:33:THR:HG21	15:6A:85:LEU:HD22	1.95	0.47
26:14:481:G:OP2	46:C5:47:LYS:HB2	2.14	0.47
26:14:482:A:H5''	26:14:483:A:OP1	2.14	0.47
26:14:952:G:C6	26:14:966:G:C6	3.01	0.47
26:14:1005:C:H2'	26:14:1006:C:H6	1.77	0.47
26:14:1161:C:H2'	26:14:1162:G:C8	2.49	0.47
26:14:1186:G:H2'	26:14:1187:G:O4'	2.14	0.47
26:14:2105:C:H2'	26:14:2106:G:H5'	1.96	0.47
26:14:2295:C:N3	26:14:2296:U:H5	2.12	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:79:48:GLY:HA3	28:79:208:PHE:HA	1.95	0.47
32:49:42:GLY:O	32:49:43:LEU:HD13	2.13	0.47
38:45:31:ASP:H	38:45:107:ALA:HB2	1.79	0.47
46:C5:82:PRO:CG	46:C5:97:ARG:HB3	2.44	0.47
1:13:186(F):C:N3	1:13:191(B):G:N2	2.62	0.47
1:13:1327:C:OP2	21:1F:12:LYS:NZ	2.45	0.47
2:1E:107:THR:HA	2:1E:110:GLN:OE1	2.14	0.47
7:6E:45:ASP:O	7:6E:49:ILE:HG13	2.14	0.47
8:7E:27:PRO:HG3	8:7E:58:TYR:CE2	2.49	0.47
10:1I:57:LYS:HD2	10:1I:60:ARG:NH2	2.29	0.47
11:2I:66:LEU:HG	11:2I:97:ALA:HB1	1.96	0.47
19:AI:31:ILE:HG23	19:AI:49:ILE:HG12	1.96	0.47
23:2K:26:C:H2'	23:2K:27:G:O4'	2.14	0.47
26:1H:721:C:H2'	26:1H:722:A:H8	1.79	0.47
26:1H:805:G:OP2	37:78:41:ARG:HG2	2.14	0.47
26:1H:1021:A:C8	26:1H:1021:A:C3'	2.95	0.47
26:1H:1475:G:C2	26:1H:1519:G:C2	3.01	0.47
26:1H:1482:U:O4	26:1H:1510:A:H8	1.97	0.47
26:1H:1700:A:H5'	26:1H:1701:A:OP2	2.14	0.47
31:31:160:ASN:CG	31:31:163:VAL:HG23	2.39	0.47
42:C8:27:LEU:HB3	42:C8:31:SER:HB3	1.95	0.47
49:J8:20:ARG:HB3	49:J8:32:LYS:HD2	1.96	0.47
54:P8:26:GLY:O	54:P8:30:VAL:HG23	2.14	0.47
1:1G:262:A:C6	1:1G:263:A:C6	3.01	0.47
1:1G:668:G:O4'	15:6A:49:ASP:HB2	2.14	0.47
1:1G:764:C:C2'	1:1G:765:G:H5'	2.44	0.47
1:1G:865:A:O5'	1:1G:865:A:H8	1.97	0.47
2:12:86:GLU:O	2:12:89:GLY:N	2.47	0.47
7:62:4:ARG:HG2	7:62:5:ARG:HH11	1.79	0.47
10:1A:27:ALA:HB1	10:1A:32:ALA:HB3	1.94	0.47
23:2L:24:C:C2	23:2L:25:U:C5	3.02	0.47
26:14:523:C:H4'	26:14:541:C:O2	2.14	0.47
26:14:1160:G:C6	26:14:1161:C:C4	3.02	0.47
26:14:1197:G:C2	26:14:1250:G:C6	3.01	0.47
26:14:1310:G:OP2	54:L5:9:ARG:NE	2.47	0.47
26:14:1358:G:O2'	26:14:1373:A:N6	2.47	0.47
26:14:1480:G:C6	26:14:1482:U:C4	3.02	0.47
26:14:1507:A:C4	26:14:1508:A:H1'	2.48	0.47
26:14:2051:A:H5'	26:14:2578:G:O4'	2.15	0.47
26:14:2055:C:H4'	26:14:2056:G:H5''	1.96	0.47
26:14:2190:G:H2'	26:14:2191:G:C1'	2.43	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2327:A:H2'	26:14:2328:A:H8	1.77	0.47
30:29:68:ALA:C	30:29:70:ALA:N	2.72	0.47
32:49:77:ILE:H	32:49:82:LEU:HD12	1.79	0.47
38:45:66:ILE:HD12	38:45:67:ARG:H	1.77	0.47
39:55:107:ASP:C	39:55:107:ASP:OD1	2.57	0.47
42:85:55:ARG:HE	42:85:55:ARG:HB2	1.50	0.47
46:C5:38:ILE:HG23	46:C5:66:PRO:HA	1.96	0.47
53:J5:49:CYS:O	53:J5:56:LYS:HB3	2.13	0.47
1:13:60:A:H4'	1:13:61:G:H5'	1.96	0.47
1:13:130:A:N3	1:13:263:A:O2'	2.39	0.47
1:13:372:C:H42	1:13:389:A:H62	1.62	0.47
1:13:431:A:H2'	1:13:432:A:O4'	2.14	0.47
1:13:1036:G:H3'	1:13:1037:C:C6	2.49	0.47
1:13:1308:U:OP1	13:4I:98:VAL:HG22	2.14	0.47
1:13:1347:G:H22	1:13:1373:G:H2'	1.79	0.47
4:3E:155:LEU:HD12	4:3E:158:ILE:HD11	1.95	0.47
6:5E:100:ASN:OD1	18:9I:23:LYS:HE2	2.14	0.47
9:8E:17:VAL:HG11	9:8E:80:GLY:C	2.39	0.47
11:2I:121:PRO:HG2	11:2I:126:ARG:HG3	1.95	0.47
20:BI:49:ALA:O	20:BI:52:ALA:N	2.47	0.47
20:BI:49:ALA:HB3	20:BI:99:LEU:HD22	1.96	0.47
23:2K:54:G:O2'	23:2K:55:5MU:H5''	2.14	0.47
26:1H:285:C:H2'	26:1H:286:C:H6	1.78	0.47
26:1H:537:C:H2'	26:1H:539:G:C8	2.49	0.47
26:1H:568:U:H5'	26:1H:945:A:C2	2.49	0.47
26:1H:945:A:OP2	60:1H:3556:HOH:O	2.20	0.47
26:1H:1533:C:C2	26:1H:1534:G:C5	3.03	0.47
26:1H:1665:A:N6	60:1H:3612:HOH:O	2.37	0.47
26:1H:2443:C:OP1	31:31:68:LYS:HD3	2.15	0.47
29:11:26:LYS:HB2	29:11:83:GLU:HB3	1.95	0.47
31:31:123:LEU:HD12	31:31:124:LEU:H	1.79	0.47
34:61:93:THR:HA	34:61:119:PRO:HB3	1.96	0.47
41:B8:51:ARG:HB2	41:B8:98:LYS:CD	2.44	0.47
45:F8:27:THR:HB	45:F8:80:ILE:HG22	1.96	0.47
46:G8:84:ARG:O	46:G8:85:VAL:HG13	2.14	0.47
55:Q8:46:ARG:HG2	55:Q8:47:LYS:HB3	1.96	0.47
1:1G:125:U:H3	1:1G:236:G:H1	1.63	0.47
1:1G:468:A:H4'	16:7A:80:PHE:O	2.14	0.47
1:1G:509:A:H5'	4:32:54:TYR:HD2	1.79	0.47
1:1G:1359:C:H1'	1:1G:1362:C:H41	1.78	0.47
3:22:125:GLU:HG2	3:22:190:ARG:O	2.15	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:88:VAL:O	4:32:92:VAL:HG23	2.14	0.47
5:42:98:THR:HB	5:42:117:ASP:HB3	1.97	0.47
20:BA:41:ILE:HA	20:BA:44:ALA:HB3	1.96	0.47
23:2L:2:G:H4'	48:E5:8:GLY:HA2	1.95	0.47
26:14:239:U:H2'	26:14:240:G:O4'	2.13	0.47
26:14:547:A:C6	26:14:548:A:N6	2.82	0.47
26:14:848:G:H2'	26:14:849:A:H8	1.76	0.47
26:14:2751:G:H4'	26:14:2752:C:OP2	2.14	0.47
30:29:103:ASP:OD2	30:29:168:MET:HE3	2.14	0.47
31:39:123:LEU:HA	31:39:192:LEU:C	2.39	0.47
49:F5:24:ALA:HB3	49:F5:27:GLU:HG2	1.96	0.47
1:13:9:G:C6	1:13:26:A:N6	2.83	0.47
1:13:68:G:H1	1:13:101:A:H61	1.62	0.47
1:13:113:G:O2'	1:13:354:G:H5'	2.15	0.47
1:13:704:A:H8	1:13:704:A:OP2	1.95	0.47
1:13:1259:C:N4	1:13:1260:C:O2	2.47	0.47
3:2E:44:GLU:HA	3:2E:52:LEU:HD11	1.96	0.47
23:2K:59:A:H4'	23:2K:60:A:OP1	2.15	0.47
26:1H:975:G:H1'	26:1H:990:A:C2	2.48	0.47
26:1H:1191:G:OP1	37:78:32:THR:HG23	2.13	0.47
26:1H:1647:G:P	26:1H:1647:G:H3'	2.54	0.47
26:1H:2110:G:C5	26:1H:2120:G:C8	3.02	0.47
26:1H:2408:U:H2'	26:1H:2409:G:C8	2.49	0.47
27:16:3:C:H2'	27:16:4:C:H6	1.79	0.47
27:16:11:C:O5'	27:16:12:C:H5	1.97	0.47
29:11:31:LYS:C	29:11:35:LYS:HZ1	2.17	0.47
29:11:70:TRP:CD1	29:11:70:TRP:C	2.93	0.47
30:21:170:LEU:HD11	30:21:187:ALA:HB3	1.96	0.47
34:61:67:ARG:O	34:61:71:ILE:HG22	2.13	0.47
36:68:68:GLU:OE2	36:68:68:GLU:N	2.47	0.47
41:B8:35:LYS:HG3	41:B8:36:GLU:N	2.29	0.47
1:1G:1448:C:N4	1:1G:1455:G:H1	2.12	0.47
6:52:5:GLU:HG3	6:52:93:SER:OG	2.14	0.47
6:52:25:ILE:HD13	6:52:82:ARG:HD2	1.95	0.47
7:62:75:VAL:HA	7:62:88:PRO:HA	1.96	0.47
9:82:46:ALA:HB2	9:82:74:ILE:CG2	2.40	0.47
9:82:95:LYS:NZ	9:82:96:LEU:HD13	2.30	0.47
14:5A:17:LYS:HD2	14:5A:18:VAL:N	2.29	0.47
15:6A:67:LEU:HD23	15:6A:67:LEU:HA	1.75	0.47
22:1L:49:G:H2'	22:1L:50:C:C6	2.49	0.47
25:4L:13:A:C4	25:4L:14:A:H1'	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:213:A:H5''	26:14:214:G:OP2	2.14	0.47
26:14:239:U:C2'	26:14:240:G:H5'	2.45	0.47
26:14:587:C:O2	37:35:33:ARG:NH1	2.46	0.47
26:14:957:A:N6	26:14:2459:A:C8	2.83	0.47
26:14:1672:C:H4'	26:14:2553:G:H5''	1.96	0.47
26:14:1716:U:O2'	26:14:1717:G:H5'	2.14	0.47
26:14:2134:A:C4	26:14:2158:A:C8	3.02	0.47
27:1J:89(A):A:H5'	27:1J:90:C:OP2	2.14	0.47
31:39:12:LEU:HD23	31:39:14:PRO:HD3	1.97	0.47
34:69:125:GLU:OE2	34:69:141:LYS:NZ	2.29	0.47
1:13:415:A:H3'	1:13:416:G:H8	1.79	0.47
1:13:650:G:H2'	1:13:651:C:H6	1.79	0.47
1:13:1053:G:O5'	1:13:1054:C:H3'	2.14	0.47
1:13:1097:C:O2'	1:13:1169:A:N3	2.38	0.47
1:13:1424:C:H2'	1:13:1425:U:O4'	2.15	0.47
6:5E:67:MET:HB2	6:5E:68:PRO:HD2	1.96	0.47
11:2I:33:THR:HA	11:2I:39:PRO:HA	1.96	0.47
20:BI:13:LEU:C	20:BI:13:LEU:HD12	2.39	0.47
24:3K:25:C:C4	24:3K:26:A:C8	3.03	0.47
24:3K:26:A:H2'	24:3K:27:G:H5'	1.96	0.47
26:1H:49:A:H5''	26:1H:51:G:O4'	2.15	0.47
26:1H:1174:A:H1'	26:1H:1178:C:N3	2.30	0.47
26:1H:1336:A:H2'	26:1H:1337:G:C8	2.49	0.47
26:1H:1475:G:N2	26:1H:1519:G:C4	2.82	0.47
26:1H:2165:G:O2'	26:1H:2166:G:H5'	2.14	0.47
26:1H:2199:A:C4	26:1H:2205:C:C6	3.02	0.47
30:21:65:GLY:HA2	30:21:70:ALA:HB3	1.96	0.47
32:41:80:PHE:O	32:41:82:LEU:HB2	2.15	0.47
46:G8:87:LYS:HD3	46:G8:88:LYS:N	2.29	0.47
52:M8:15:ILE:HB	52:M8:32:TYR:HA	1.97	0.47
55:Q8:49:VAL:O	55:Q8:50:LEU:C	2.58	0.47
2:12:147:LYS:HD2	2:12:148:TYR:CE1	2.50	0.47
3:22:131:ARG:NH2	3:22:166:GLU:OE1	2.42	0.47
6:52:67:MET:HB2	6:52:68:PRO:HD2	1.96	0.47
11:2A:96:ARG:H	11:2A:96:ARG:HD3	1.79	0.47
22:1L:29:U:H2'	22:1L:30:G:O4'	2.13	0.47
24:3L:37:A:H2'	24:3L:38:A:O4'	2.15	0.47
26:14:55:G:O2'	26:14:127:A:N1	2.37	0.47
26:14:61:G:P	50:G5:50:ILE:HD13	2.55	0.47
26:14:121:G:H4'	26:14:149:A:H5'	1.96	0.47
26:14:184:C:H2'	26:14:185:U:H6	1.78	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:270(L):U:C2	34:69:50:ARG:NH1	2.83	0.47
26:14:389:G:H22	37:35:72:PRO:CD	2.28	0.47
26:14:909:A:O2'	26:14:910:A:H5''	2.14	0.47
26:14:1340:U:H4'	26:14:1394:U:O2'	2.14	0.47
26:14:1341:U:O4	45:B5:16:LYS:NZ	2.37	0.47
26:14:1379:A:H4'	26:14:1380:G:OP2	2.12	0.47
26:14:2141:G:H1	26:14:2150:U:H3	1.61	0.47
26:14:2190:G:H2'	26:14:2191:G:H1'	1.96	0.47
26:14:2473:U:O2	26:14:2473:U:H2'	2.14	0.47
26:14:2493:U:H2'	26:14:2494:G:O4'	2.14	0.47
26:14:2747:G:O6	26:14:2755:C:H5''	2.15	0.47
32:49:115:ARG:HG3	32:49:136:ARG:HH12	1.79	0.47
37:35:39:LYS:HG3	37:35:45:LEU:HD13	1.95	0.47
44:A5:1:MET:HE2	44:A5:1:MET:HA	1.96	0.47
1:13:112:G:H4'	1:13:389:A:H4'	1.96	0.47
1:13:244:U:H4'	1:13:245:C:C5'	2.44	0.47
1:13:321:A:C2	1:13:333:G:C2	3.03	0.47
1:13:729:A:H2'	1:13:730:G:H8	1.79	0.47
1:13:838:G:H1	1:13:848:C:N4	2.13	0.47
1:13:1316:G:H22	1:13:1319:A:H5'	1.78	0.47
4:3E:8:VAL:CG1	4:3E:21:LEU:HB2	2.45	0.47
6:5E:61:LEU:HB3	6:5E:63:TYR:HE1	1.80	0.47
19:AI:23:ASN:OD1	19:AI:43:GLU:HB2	2.13	0.47
20:BI:20:LEU:O	20:BI:23:ARG:N	2.48	0.47
26:1H:518:G:H2'	26:1H:519:U:C6	2.49	0.47
26:1H:654(O):G:H5''	26:1H:654(P):G:C4	2.50	0.47
26:1H:1440:G:H2'	26:1H:1441:G:C8	2.49	0.47
26:1H:1790:C:H2'	26:1H:1791:A:C5	2.50	0.47
26:1H:2106:G:C6	26:1H:2107:C:C2	3.03	0.47
26:1H:2301:C:H2'	26:1H:2302:G:H8	1.79	0.47
26:1H:2358:G:C5	26:1H:2359:C:C5	3.03	0.47
26:1H:2552:U:H2'	26:1H:2554:U:OP2	2.14	0.47
26:1H:2563:U:H4'	36:68:28:SER:HA	1.95	0.47
26:1H:2688:U:H1'	26:1H:2721:A:N6	2.30	0.47
37:78:49:ARG:HH12	55:Q8:61:LEU:HD22	1.74	0.47
38:88:59:ARG:C	38:88:61:GLY:H	2.23	0.47
38:88:109:VAL:CG1	38:88:113:GLN:HB3	2.45	0.47
53:N8:40:LYS:HG2	53:N8:46:CYS:HA	1.96	0.47
54:P8:10:ARG:O	54:P8:14:LYS:HG3	2.15	0.47
1:1G:147:G:H2'	1:1G:148:G:C8	2.49	0.47
1:1G:452:A:O2'	1:1G:453:A:O5'	2.31	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:647:C:H2'	1:1G:648:A:C8	2.50	0.47
1:1G:1513:A:H2'	1:1G:1514:C:C6	2.49	0.47
2:12:53:ARG:HA	2:12:56:ARG:HD2	1.95	0.47
4:32:119:GLN:HG2	4:32:123:HIS:ND1	2.30	0.47
8:72:99:GLU:O	8:72:102:ARG:NH1	2.46	0.47
14:5A:24:CYS:HB3	14:5A:27:CYS:O	2.14	0.47
23:2L:44:A:H2'	23:2L:45:A:H8	1.78	0.47
26:14:522:G:H2'	26:14:523:C:H6	1.79	0.47
26:14:806:C:OP2	37:35:41:ARG:NH2	2.45	0.47
26:14:1288:U:C2	26:14:1327:C:O2	2.67	0.47
26:14:1416:G:HO2'	26:14:1417:C:P	2.33	0.47
26:14:1580:A:H8	26:14:1580:A:OP2	1.97	0.47
26:14:1731:G:C8	26:14:1732:A:C8	3.02	0.47
26:14:1936:A:C8	26:14:1940:U:O2	2.67	0.47
35:15:59:LYS:HD2	35:15:59:LYS:HA	1.50	0.47
37:35:11:GLY:C	37:35:13:ASN:H	2.22	0.47
37:35:52:GLU:HG3	37:35:55:ARG:HD2	1.97	0.47
38:45:52:VAL:CG1	38:45:56:ARG:HH11	2.28	0.47
38:45:118:LEU:HD23	38:45:118:LEU:HA	1.69	0.47
42:85:39:LEU:HD23	42:85:39:LEU:HA	1.66	0.47
43:95:15:GLU:HG3	43:95:16:PRO:HD2	1.96	0.47
43:95:21:ARG:HH22	43:95:65:GLY:C	2.21	0.47
43:95:64:HIS:ND1	43:95:92:THR:OG1	2.44	0.47
45:B5:32:PRO:HA	45:B5:77:LYS:HB2	1.97	0.47
45:B5:35:THR:HG23	45:B5:38:GLU:H	1.80	0.47
47:D5:60:GLU:HA	47:D5:66:SER:HA	1.97	0.47
1:13:134:A:H61	16:7I:25:ARG:NH1	2.12	0.47
1:13:228:A:H2'	1:13:229:U:O4'	2.14	0.47
1:13:310:G:H4'	16:7I:31:LYS:HE3	1.96	0.47
1:13:362:G:H4'	12:3I:33:ARG:NH2	2.30	0.47
1:13:735:C:H5'	18:9I:71:LYS:HD2	1.97	0.47
1:13:953:G:C2	1:13:954:G:H1'	2.50	0.47
1:13:1053:G:O2'	1:13:1199:U:H5	1.98	0.47
1:13:1127:G:H2'	1:13:1128:C:N1	2.29	0.47
1:13:1315:U:H2'	1:13:1316:G:O4'	2.15	0.47
2:1E:166:ASP:O	2:1E:168:THR:N	2.43	0.47
2:1E:220:ASP:HA	2:1E:223:ILE:HD11	1.96	0.47
3:2E:10:PHE:CZ	3:2E:178:LEU:HD21	2.50	0.47
3:2E:111:LEU:HD11	3:2E:144:SER:O	2.15	0.47
3:2E:157:ILE:HD12	3:2E:164:ARG:HG2	1.97	0.47
5:4E:15:ARG:HD2	5:4E:26:PHE:CD2	2.49	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:5E:10:LEU:HD22	6:5E:61:LEU:HD11	1.97	0.47
6:5E:97:PHE:N	18:9I:30:ASP:OD1	2.47	0.47
15:6I:27:VAL:HG12	15:6I:31:LEU:HD23	1.97	0.47
16:7I:21:VAL:O	16:7I:33:ILE:N	2.44	0.47
19:AI:13:ASP:OD1	19:AI:13:ASP:N	2.48	0.47
22:1K:41:A:H2'	22:1K:42:A:H8	1.77	0.47
24:3K:19:G:H1	26:1H:2112:G:C1'	2.28	0.47
26:1H:764:A:H5'	29:11:210:GLY:HA2	1.97	0.47
26:1H:1478:G:H2'	26:1H:1479:G:C8	2.46	0.47
26:1H:1528:A:C6	26:1H:1529:A:N1	2.83	0.47
26:1H:1796:U:H4'	29:11:256:GLY:H	1.80	0.47
26:1H:1820:U:O2	29:11:202:LYS:HB3	2.14	0.47
26:1H:1826:G:H4'	29:11:242:ARG:NH2	2.30	0.47
26:1H:1827:C:O2'	26:1H:1828:G:H5'	2.15	0.47
26:1H:1985:G:C2	26:1H:1986:A:C8	3.02	0.47
26:1H:2105:C:H2'	26:1H:2106:G:H8	1.79	0.47
26:1H:2125:G:N2	26:1H:2172:U:OP1	2.48	0.47
26:1H:2342:C:O2'	26:1H:2374:C:OP1	2.28	0.47
26:1H:2521:C:H2'	26:1H:2522:U:C6	2.49	0.47
26:1H:2756:U:H4'	26:1H:2757:A:OP1	2.14	0.47
26:1H:2792:G:C6	26:1H:2805:G:C6	3.03	0.47
29:11:228:PRO:O	60:11:401:HOH:O	2.21	0.47
34:61:69:LYS:HA	34:61:136:VAL:HB	1.97	0.47
35:58:51:PHE:CE1	35:58:119:ARG:NE	2.83	0.47
37:78:15:ARG:HD3	37:78:15:ARG:HA	1.55	0.47
39:98:24:GLN:HE22	39:98:36:THR:HG21	1.79	0.47
39:98:50:HIS:O	39:98:54:LEU:HD23	2.14	0.47
41:B8:104:ASN:O	41:B8:104:ASN:ND2	2.48	0.47
43:D8:48:GLY:O	43:D8:49:THR:O	2.32	0.47
51:L8:5:LYS:HD2	51:L8:34:GLU:OE1	2.14	0.47
51:L8:28:LEU:HA	51:L8:33:GLN:NE2	2.30	0.47
1:1G:99:C:H2'	1:1G:101:A:C8	2.49	0.47
1:1G:277:C:P	17:8A:68:ARG:HH12	2.38	0.47
1:1G:296:U:H2'	1:1G:297:G:C8	2.49	0.47
1:1G:617:G:N1	1:1G:618:C:C4	2.83	0.47
1:1G:707:C:H2'	1:1G:708:C:H6	1.80	0.47
1:1G:953:G:N7	13:4A:104:ARG:NH2	2.62	0.47
1:1G:1006:C:H2'	1:1G:1007:C:C6	2.50	0.47
1:1G:1059:C:O3'	14:5A:45:ARG:NH2	2.48	0.47
1:1G:1126:U:H1'	1:1G:1127:G:OP1	2.13	0.47
1:1G:1191:A:OP1	3:22:3:ASN:ND2	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1254:C:H41	10:1A:43:ARG:HH12	1.62	0.47
4:32:13:ARG:O	4:32:14:ARG:HB3	2.14	0.47
4:32:18:LYS:HE3	4:32:31:CYS:HB3	1.96	0.47
4:32:59:ARG:O	4:32:63:LYS:N	2.40	0.47
8:72:29:SER:HB3	8:72:32:LYS:CG	2.37	0.47
9:82:78:LYS:HE3	9:82:101:PHE:CD2	2.50	0.47
10:1A:16:LEU:HD13	10:1A:94:VAL:HG13	1.97	0.47
12:3A:70:ILE:HD13	12:3A:77:LEU:HD12	1.96	0.47
13:4A:14:ARG:HG2	13:4A:42:ALA:O	2.14	0.47
18:9A:25:THR:CG2	18:9A:42:ARG:HH21	2.27	0.47
21:1B:5:ASP:O	21:1B:11:GLY:HA3	2.15	0.47
22:1L:14:A:C5	22:1L:22:G:C2	3.03	0.47
24:3L:31:A:H5'	24:3L:32:C:OP2	2.14	0.47
24:3L:62:C:H1'	28:79:52:ARG:HH21	1.79	0.47
26:14:323:G:H1'	26:14:1205:U:O2	2.14	0.47
26:14:362:U:H5'	26:14:363:G:OP2	2.15	0.47
26:14:363(B):G:H2'	26:14:363(C):G:H8	1.79	0.47
26:14:522:G:H2'	26:14:523:C:C6	2.50	0.47
26:14:815:C:H2'	26:14:816:C:C6	2.49	0.47
26:14:1167:U:O2	26:14:1183:G:N2	2.47	0.47
26:14:1222:C:C2	26:14:1229(A):G:C2	3.02	0.47
26:14:1323:U:H2'	26:14:1324:G:H5'	1.96	0.47
26:14:1759:A:H4'	26:14:2715:C:O4'	2.15	0.47
26:14:1859:A:N6	26:14:1883:G:O2'	2.47	0.47
26:14:2305:A:H2'	26:14:2306:C:O4'	2.15	0.47
26:14:2400:G:H3'	26:14:2401:U:C6	2.50	0.47
26:14:2577:A:H2'	26:14:2614:A:N6	2.29	0.47
29:19:130:ALA:HA	29:19:192:THR:HA	1.97	0.47
30:29:89:ASP:OD2	30:29:91:VAL:HA	2.15	0.47
34:69:127:VAL:HA	34:69:138:ILE:O	2.14	0.47
35:15:23:LEU:HD12	35:15:99:LEU:HD23	1.96	0.47
36:25:35:VAL:HG11	36:25:103:ALA:CB	2.40	0.47
37:35:60:MET:HA	55:M5:13:ARG:NH1	2.30	0.47
40:65:49:VAL:HG22	40:65:80:LEU:HD12	1.95	0.47
43:95:39:LEU:HD21	43:95:50:PRO:O	2.15	0.47
43:95:49:THR:OG1	43:95:50:PRO:HD2	2.14	0.47
1:13:292:G:C5	1:13:293:G:H1'	2.49	0.47
1:13:381:C:H2'	1:13:382:A:O4'	2.14	0.47
1:13:637:G:H2'	1:13:638:G:H8	1.79	0.47
1:13:767:A:H2'	1:13:768:A:O4'	2.15	0.47
1:13:1240:U:OP1	7:6E:119:ARG:NH2	2.48	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1417:G:N2	1:13:1482:G:H2'	2.29	0.47
1:13:1454:G:H2'	1:13:1455:G:C8	2.50	0.47
7:6E:71:PRO:HG3	7:6E:103:TRP:CZ3	2.50	0.47
22:1K:39:PSU:H2'	22:1K:40:C:C6	2.50	0.47
22:1K:52:G:H2'	22:1K:53:G:C8	2.50	0.47
26:1H:55:G:C2	26:1H:116:C:C2	3.02	0.47
26:1H:139:G:N3	26:1H:141:A:N1	2.62	0.47
26:1H:1827:C:C2'	26:1H:1828:G:H5'	2.45	0.47
26:1H:2771:C:H2'	26:1H:2772:C:C6	2.50	0.47
30:21:20:ALA:O	30:21:21:VAL:HG22	2.14	0.47
34:61:62:LYS:O	34:61:66:GLU:HG2	2.15	0.47
50:K8:55:ARG:O	50:K8:58:ALA:HB3	2.14	0.47
51:L8:37:LEU:HD12	51:L8:43:ILE:HD13	1.95	0.47
1:1G:637:G:H2'	1:1G:638:G:C8	2.49	0.47
1:1G:747:C:H3'	1:1G:748:C:C6	2.50	0.47
1:1G:790:A:H2'	1:1G:791:G:C8	2.50	0.47
1:1G:1113:C:H2'	1:1G:1114:C:H6	1.78	0.47
1:1G:1213:A:C6	1:1G:1215:G:C4	3.03	0.47
13:4A:91:ARG:HG3	13:4A:98:VAL:HA	1.97	0.47
17:8A:43:LEU:HD12	17:8A:68:ARG:HG2	1.96	0.47
22:1L:22:G:H2'	22:1L:23:A:C8	2.50	0.47
23:2L:25:U:H2'	23:2L:26:C:O4'	2.14	0.47
26:14:39:C:H2'	26:14:40:C:C6	2.49	0.47
26:14:322:A:H3'	31:39:169:ASN:OD1	2.15	0.47
26:14:608:A:H2'	26:14:609:A:C8	2.50	0.47
26:14:1340:U:OP1	45:B5:16:LYS:HE2	2.15	0.47
26:14:1731:G:H2'	26:14:1732:A:C8	2.50	0.47
26:14:1853:A:H2'	26:14:1854:A:C8	2.50	0.47
29:19:25:THR:OG1	29:19:26:LYS:N	2.48	0.47
34:69:23:PRO:O	34:69:27:ARG:HG2	2.14	0.47
40:65:5:THR:O	40:65:8:GLU:N	2.48	0.47
48:E5:32:ARG:HG2	48:E5:33:ALA:H	1.80	0.47
1:13:21:G:H2'	1:13:22:G:C8	2.50	0.47
1:13:376:G:H2'	1:13:377:G:C8	2.50	0.47
1:13:1129:C:H4'	1:13:1130:A:C8	2.50	0.47
1:13:1366:C:H2'	1:13:1367:C:C6	2.50	0.47
1:13:1469:G:H2'	1:13:1470:G:C8	2.49	0.47
4:3E:78:LEU:HB3	4:3E:93:PHE:HE1	1.80	0.47
8:7E:29:SER:HB3	8:7E:32:LYS:HB2	1.95	0.47
13:4I:27:LYS:HA	13:4I:31:LYS:NZ	2.30	0.47
15:6I:7:GLU:O	15:6I:11:VAL:HG23	2.14	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:6I:26:GLU:OE1	15:6I:81:LEU:HD22	2.15	0.47
26:1H:38:A:H2'	26:1H:39:C:C6	2.50	0.47
26:1H:70:G:H21	26:1H:71:A:H62	1.63	0.47
26:1H:216:A:C4	26:1H:432:A:C2	3.03	0.47
26:1H:747:U:C4	26:1H:2613:U:C5	3.02	0.47
26:1H:1139:G:O2'	26:1H:1143:A:N1	2.42	0.47
26:1H:1358:G:N2	26:1H:1372:U:C5	2.83	0.47
26:1H:1553:A:HO2'	26:1H:1554:A:H8	1.61	0.47
26:1H:1684:C:N3	26:1H:1705:G:C2	2.83	0.47
26:1H:2127:G:H2'	26:1H:2128:C:O4'	2.15	0.47
26:1H:2667:C:H2'	26:1H:2668:G:O4'	2.15	0.47
26:1H:2783:G:H2'	26:1H:2784:C:C6	2.50	0.47
33:51:30:LYS:HE2	33:51:81:GLU:N	2.19	0.47
36:68:64:ARG:HB2	36:68:79:PHE:CG	2.50	0.47
40:A8:11:LYS:HE2	40:A8:91:PRO:HD3	1.97	0.47
40:A8:67:ARG:NH1	40:A8:67:ARG:HB2	2.30	0.47
41:B8:25:GLY:HA2	41:B8:99:LEU:HD21	1.96	0.47
1:1G:142:G:H2'	1:1G:143:A:C8	2.47	0.47
1:1G:176:C:H2'	1:1G:177:C:C6	2.50	0.47
1:1G:976:G:P	14:5A:32:SER:H	2.38	0.47
1:1G:1216:G:H5''	14:5A:5:ALA:HB3	1.96	0.47
1:1G:1418:A:H2	26:14:1948:G:N3	2.12	0.47
5:42:91:LEU:HD23	5:42:120:THR:HG22	1.96	0.47
14:5A:12:ARG:HH11	14:5A:12:ARG:HG3	1.80	0.47
23:2L:15:G:N2	23:2L:22:A:H1'	2.30	0.47
26:14:573:G:O2'	26:14:574:C:H3'	2.15	0.47
26:14:708:C:N4	26:14:723:G:H1	2.09	0.47
26:14:921:G:C6	26:14:922:U:C4	3.03	0.47
26:14:1048:A:C8	26:14:1110:G:N2	2.83	0.47
26:14:1054:A:C6	26:14:1104:C:N3	2.82	0.47
26:14:1654:A:C1'	26:14:2823:A:H5'	2.44	0.47
26:14:2038:G:H2'	26:14:2039:C:O4'	2.14	0.47
26:14:2747:G:O6	26:14:2754:U:H3'	2.15	0.47
29:19:108:PRO:HD2	29:19:111:LEU:HG	1.96	0.47
41:75:5:ALA:O	41:75:8:LYS:HB3	2.14	0.47
42:85:66:ASN:HD21	42:85:70:ARG:NH2	2.12	0.47
43:95:69:LYS:HD3	43:95:86:GLY:HA3	1.97	0.47
45:B5:84:ALA:HB3	45:B5:87:GLN:NE2	2.30	0.47
55:M5:43:GLN:HG3	55:M5:46:ARG:NH2	2.30	0.47
1:13:37:U:O2'	1:13:500:G:H4'	2.15	0.47
1:13:130:A:P	17:8I:63:ARG:HE	2.38	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:948:C:O2'	1:13:949:A:H5'	2.14	0.47
1:13:1497:G:C2'	1:13:1498:U:H5'	2.45	0.47
6:5E:23:LYS:O	6:5E:27:GLN:HG3	2.15	0.47
7:6E:70:LYS:HG2	7:6E:96:GLN:HB3	1.97	0.47
19:AI:30:LEU:HA	19:AI:48:THR:O	2.15	0.47
26:1H:412:A:H2'	26:1H:412:A:N3	2.30	0.47
26:1H:609:A:H8	26:1H:609:A:O5'	1.98	0.47
26:1H:1020:A:H4'	26:1H:1021:A:O5'	2.15	0.47
26:1H:1988:C:H2'	26:1H:1989:G:O4'	2.15	0.47
27:16:66:A:H61	27:16:107:U:H2'	1.80	0.47
28:71:4:GLY:HA3	28:71:6:ARG:NH2	2.30	0.47
29:11:6:PHE:HE1	29:11:18:VAL:HG23	1.79	0.47
38:88:11:LYS:NZ	38:88:88:GLY:O	2.37	0.47
42:C8:49:HIS:HA	42:C8:52:ARG:HB3	1.96	0.47
43:D8:71:LEU:HD22	43:D8:84:LYS:HE2	1.97	0.47
44:E8:76:VAL:CG2	44:E8:101:SER:HB3	2.45	0.47
47:H8:28:MET:SD	47:H8:37:VAL:HG11	2.55	0.47
1:1G:87:A:C5	1:1G:88:C:C4	3.02	0.47
1:1G:256:U:H3	1:1G:270:A:H61	1.63	0.47
1:1G:673:G:H5''	6:52:87:ARG:CZ	2.45	0.47
1:1G:922:G:H1'	5:42:19:MET:HB3	1.97	0.47
1:1G:1135:U:O2'	1:1G:1138:G:O6	2.27	0.47
3:22:110:ASN:HB3	3:22:141:VAL:CG1	2.45	0.47
9:82:86:VAL:HB	9:82:96:LEU:HD23	1.95	0.47
11:2A:17:GLY:N	11:2A:77:MET:SD	2.88	0.47
12:3A:59:ARG:HE	12:3A:59:ARG:HB2	1.52	0.47
20:BA:87:LYS:O	20:BA:91:LEU:HG	2.15	0.47
26:14:146:G:H2'	26:14:147:U:O4'	2.15	0.47
26:14:150:C:H2'	26:14:151:C:C6	2.50	0.47
26:14:398:G:H2'	26:14:399:G:C8	2.50	0.47
26:14:654(S):G:N2	26:14:654(T):A:C5	2.83	0.47
26:14:908:C:OP1	38:45:22:LYS:HD3	2.14	0.47
26:14:1116:C:H2'	26:14:1117:G:C8	2.49	0.47
26:14:1268:A:H2'	26:14:1269:A:O4'	2.14	0.47
26:14:1368:G:OP1	54:L5:28:ARG:NH2	2.48	0.47
26:14:1461:G:H2'	26:14:1462:C:C6	2.50	0.47
26:14:1731:G:H2'	26:14:1732:A:H8	1.79	0.47
26:14:1794:U:O2'	26:14:1795:C:H5'	2.15	0.47
26:14:2082:A:H2'	26:14:2083:G:O4'	2.15	0.47
26:14:2104:G:C2	26:14:2105:C:N4	2.83	0.47
26:14:2536:G:C6	26:14:2537:U:C4	3.03	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:126:GLN:O	29:19:193:VAL:HG13	2.15	0.47
30:29:26:ILE:HG22	30:29:27:LEU:C	2.40	0.47
31:39:25:PRO:C	31:39:27:GLU:H	2.21	0.47
32:49:47:LYS:HD3	32:49:81:LYS:HG3	1.97	0.47
41:75:90:GLN:OE1	41:75:121:ILE:HD11	2.14	0.47
47:D5:77:ASP:OD1	47:D5:80:ARG:NH1	2.47	0.47
1:13:538:G:OP2	12:3I:115:LYS:HD3	2.15	0.46
1:13:663:A:H5'	1:13:836:G:OP1	2.16	0.46
1:13:723:U:H5''	1:13:724:G:OP2	2.16	0.46
1:13:954:G:H2'	1:13:955:U:C6	2.50	0.46
3:2E:12:LEU:O	3:2E:13:GLY:C	2.56	0.46
3:2E:188:LEU:HD13	3:2E:189:ALA:N	2.30	0.46
4:3E:22:LYS:HB2	58:3E:302:SF4:S4	2.55	0.46
4:3E:81:GLU:H	4:3E:81:GLU:HG2	1.49	0.46
5:4E:12:LEU:HB3	5:4E:31:LEU:HB2	1.97	0.46
7:6E:77:SER:HB3	24:3K:33:U:OP1	2.16	0.46
7:6E:133:GLY:HA2	7:6E:136:LYS:HG2	1.97	0.46
8:7E:109:ILE:HD11	8:7E:120:THR:CG2	2.45	0.46
10:1I:15:THR:HA	10:1I:18:ALA:HB3	1.98	0.46
12:3I:93:LEU:HD23	12:3I:93:LEU:HA	1.66	0.46
20:BI:10:LEU:HD11	20:BI:12:ALA:HB3	1.96	0.46
23:2K:24:C:H2'	23:2K:25:U:C6	2.50	0.46
26:1H:634:C:H2'	26:1H:635:C:C6	2.50	0.46
26:1H:709:U:H2'	26:1H:710:G:C8	2.51	0.46
26:1H:973:A:O4'	26:1H:1188:U:C6	2.68	0.46
26:1H:997:G:OP1	42:C8:93:LYS:HD2	2.15	0.46
26:1H:1239:G:H2'	26:1H:1240:U:O4'	2.15	0.46
26:1H:1280:G:N2	26:1H:1291:C:C2	2.83	0.46
26:1H:1408:C:C2	26:1H:1595:G:N2	2.83	0.46
26:1H:2270:G:H2'	26:1H:2271:G:O4'	2.15	0.46
26:1H:2607:G:H2'	26:1H:2608:G:O4'	2.15	0.46
30:21:49:LEU:HD12	30:21:49:LEU:HA	1.59	0.46
33:51:116:GLU:HG3	33:51:117:PRO:HD2	1.98	0.46
35:58:57:ALA:C	35:58:59:LYS:N	2.67	0.46
39:98:10:LEU:O	39:98:11:ASN:C	2.58	0.46
41:B8:111:ARG:O	41:B8:112:ARG:HG2	2.14	0.46
1:1G:164:U:H2'	1:1G:165:C:C6	2.50	0.46
1:1G:164:U:H2'	1:1G:165:C:H6	1.80	0.46
1:1G:532:A:H2	1:1G:1055:A:H1'	1.81	0.46
1:1G:620:C:C2	4:32:135:LEU:CD1	2.97	0.46
1:1G:636:U:H2'	1:1G:637:G:H8	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:681:C:H2'	1:1G:682:G:H8	1.80	0.46
1:1G:749:C:H2'	1:1G:750:G:H8	1.80	0.46
1:1G:889:A:H61	1:1G:907:A:H5''	1.80	0.46
1:1G:1157:A:H2	1:1G:1180:A:C5	2.32	0.46
3:22:19:GLU:O	3:22:56:ASP:HA	2.14	0.46
4:32:4:TYR:CE2	4:32:11:LEU:HD11	2.50	0.46
11:2A:100:ALA:O	11:2A:102:GLY:N	2.48	0.46
19:AA:33:THR:HG23	19:AA:35:SER:H	1.80	0.46
22:1L:39:PSU:H2'	22:1L:40:C:H6	1.79	0.46
26:14:265:A:H1'	26:14:266:G:O4'	2.16	0.46
26:14:1751:C:O2'	26:14:1752:C:H5'	2.15	0.46
26:14:2377:A:H2'	26:14:2378:A:C8	2.50	0.46
30:29:51:PHE:O	30:29:74:PRO:HB2	2.15	0.46
30:29:64:LYS:C	30:29:66:HIS:H	2.23	0.46
36:25:92:GLU:HG2	36:25:113:LYS:HZ1	1.78	0.46
49:F5:7:ILE:CD1	49:F5:91:LYS:HZ1	2.27	0.46
50:G5:22:GLU:HG2	50:G5:64:LEU:HD11	1.96	0.46
1:13:429:U:H3'	4:3E:9:CYS:SG	2.55	0.46
1:13:711:G:O2'	1:13:712:A:H5'	2.15	0.46
1:13:1348:U:H4'	9:8E:120:ARG:HD2	1.98	0.46
2:1E:98:LEU:HG	2:1E:101:MET:HE3	1.97	0.46
2:1E:131:PRO:HD2	2:1E:134:GLU:HB3	1.98	0.46
4:3E:12:CYS:SG	4:3E:18:LYS:HA	2.55	0.46
4:3E:20:TYR:CZ	6:52:15:ASP:HB3	2.51	0.46
7:6E:31:MET:HE1	7:6E:36:LYS:HZ2	1.80	0.46
13:4I:23:TYR:HB3	13:4I:67:GLU:HB2	1.98	0.46
16:7I:20:VAL:CG2	16:7I:32:TYR:CG	2.98	0.46
26:1H:646:A:H2'	26:1H:647:G:O4'	2.15	0.46
26:1H:1431:U:C2	26:1H:1563:G:N2	2.83	0.46
26:1H:1684:C:C2	26:1H:1705:G:N2	2.84	0.46
26:1H:2030:A:H4'	26:1H:2031:A:C8	2.50	0.46
26:1H:2093:G:C6	26:1H:2225:A:C8	3.04	0.46
27:16:43:C:OP1	32:41:67:LYS:NZ	2.31	0.46
28:71:64:LEU:HD21	28:71:192:PHE:HB2	1.98	0.46
30:21:52:LEU:HD23	30:21:52:LEU:HA	1.75	0.46
31:31:134:GLY:H	31:31:162:LEU:HB3	1.80	0.46
35:58:114:ARG:O	35:58:118:LYS:HG3	2.16	0.46
40:A8:87:PHE:HZ	40:A8:98:VAL:HG12	1.80	0.46
45:F8:35:THR:HG22	45:F8:38:GLU:OE1	2.15	0.46
46:G8:28:LYS:NZ	46:G8:64:GLU:OE2	2.33	0.46
47:H8:77:ASP:CG	47:H8:80:ARG:HD2	2.40	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:K8:64:LEU:O	50:K8:68:ARG:HG3	2.14	0.46
1:1G:269:C:H2'	1:1G:270:A:H8	1.79	0.46
1:1G:420:U:O2'	1:1G:423:G:O6	2.22	0.46
1:1G:626:U:C2	1:1G:627:G:C8	3.03	0.46
1:1G:948:C:C6	13:4A:106:ASN:ND2	2.83	0.46
1:1G:1291:G:H5''	9:82:39:GLY:O	2.16	0.46
2:12:189:ASP:OD1	2:12:189:ASP:N	2.49	0.46
5:42:139:LEU:HA	5:42:142:LEU:HD11	1.97	0.46
19:AA:5:LEU:HA	19:AA:6:LYS:HA	1.74	0.46
22:1L:68:G:H2'	22:1L:69:A:N7	2.30	0.46
23:2L:22:A:N6	23:2L:47:G7M:H1'	2.30	0.46
26:14:142:G:H5''	26:14:1598:C:O2'	2.15	0.46
26:14:235:U:H2'	26:14:236:C:C6	2.50	0.46
26:14:784:A:H5'	26:14:785:G:OP1	2.16	0.46
26:14:820:A:N3	26:14:943:U:H4'	2.31	0.46
26:14:858:U:OP2	48:E5:77:ARG:NH2	2.42	0.46
26:14:1044:G:O2'	26:14:1047:G:O2'	2.22	0.46
26:14:1055:G:N3	26:14:1055:G:H2'	2.31	0.46
26:14:1434:A:H61	26:14:1558:A:N6	2.10	0.46
26:14:2134:A:C5	26:14:2158:A:C8	3.03	0.46
26:14:2208:U:O4'	29:19:151:LYS:HE2	2.15	0.46
26:14:2408:U:H2'	26:14:2409:G:C8	2.50	0.46
31:39:9:ILE:HB	31:39:128:ALA:HB2	1.97	0.46
32:49:50:ALA:HA	32:49:53:LEU:HD22	1.96	0.46
37:35:15:ARG:HH21	37:35:17:LYS:HD2	1.79	0.46
42:85:65:ILE:O	42:85:68:ALA:N	2.48	0.46
1:13:130:A:O5'	17:8I:63:ARG:NE	2.47	0.46
1:13:484:G:O2'	1:13:485:G:OP2	2.24	0.46
1:13:735:C:H2'	1:13:736:C:H6	1.80	0.46
2:1E:19:HIS:O	2:1E:39:ILE:HD12	2.15	0.46
7:6E:65:ALA:HB1	7:6E:127:ALA:HB3	1.96	0.46
7:6E:140:ASP:OD2	7:6E:143:ARG:NH2	2.48	0.46
10:1I:90:LEU:N	10:1I:91:PRO:HD3	2.30	0.46
15:6I:17:ARG:HH11	15:6I:17:ARG:HG3	1.80	0.46
26:1H:49:A:N7	26:1H:120:U:C5	2.76	0.46
26:1H:55:G:N3	26:1H:56:A:C8	2.84	0.46
26:1H:150:C:H2'	26:1H:151:C:C6	2.50	0.46
26:1H:446:G:OP1	42:C8:3:ARG:NH1	2.49	0.46
26:1H:496:G:H1'	44:E8:61:ASN:OD1	2.14	0.46
26:1H:880:G:H2'	26:1H:881:G:N7	2.31	0.46
26:1H:1125:G:C6	26:1H:1126:A:N6	2.83	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1173:G:H5'	26:1H:1174:A:N1	2.30	0.46
26:1H:1204:A:C2	26:1H:1241:A:N1	2.83	0.46
26:1H:1569:A:O5'	29:11:61:LEU:HD21	2.15	0.46
26:1H:1771:C:H1'	26:1H:1786:A:C8	2.50	0.46
26:1H:2061:G:C2	26:1H:2063:C:C4	3.03	0.46
26:1H:2173:A:H8	26:1H:2173:A:OP1	1.97	0.46
27:16:78:A:C2	27:16:99:A:C4	3.03	0.46
28:71:28:LEU:HD21	28:71:222:VAL:HG11	1.97	0.46
29:11:37:LEU:H	29:11:37:LEU:HG	1.18	0.46
31:31:116:ASP:HA	31:31:119:ARG:NH2	2.30	0.46
33:51:8:PRO:O	33:51:10:PRO:HD3	2.15	0.46
35:58:34:LEU:HD12	35:58:34:LEU:HA	1.80	0.46
38:88:19:GLY:O	38:88:98:LYS:HD3	2.15	0.46
40:A8:7:TYR:HA	40:A8:10:ARG:NH2	2.31	0.46
41:B8:34:VAL:CG2	41:B8:41:ARG:HG3	2.45	0.46
46:G8:76:CYS:HB2	46:G8:82:PRO:HG3	1.96	0.46
49:J8:8:SER:OG	49:J8:10:LYS:HG3	2.16	0.46
1:1G:134:A:H1'	1:1G:325:A:C5	2.51	0.46
1:1G:892:A:O2'	1:1G:1415:G:H4'	2.15	0.46
1:1G:1004:A:H61	1:1G:1023:G:H1	1.62	0.46
1:1G:1039:C:H2'	1:1G:1040:U:C5	2.50	0.46
1:1G:1536:C:H42	25:4L:8:A:H62	1.62	0.46
4:32:19:LEU:HB2	4:32:21:LEU:CD1	2.46	0.46
4:32:85:LYS:HE2	4:32:85:LYS:HB3	1.71	0.46
6:52:50:TYR:OH	18:9A:74:ARG:O	2.28	0.46
11:2A:32:ILE:HD11	11:2A:68:ALA:HB1	1.97	0.46
11:2A:59:TYR:CZ	11:2A:63:LEU:HD21	2.50	0.46
12:3A:83:VAL:HG13	12:3A:100:ILE:HG23	1.97	0.46
17:8A:28:PRO:HA	17:8A:35:VAL:HA	1.98	0.46
20:BA:10:LEU:HD13	20:BA:10:LEU:O	2.14	0.46
26:14:1204:A:C2	26:14:1241:A:N1	2.82	0.46
26:14:2850:A:C2	26:14:2851:A:C4	3.04	0.46
27:1J:21:G:H2'	27:1J:22:U:O4'	2.14	0.46
30:29:117:MET:HA	30:29:122:PHE:N	2.29	0.46
31:39:128:ALA:O	31:39:129:PHE:C	2.58	0.46
34:69:76:THR:HA	34:69:105:HIS:CE1	2.51	0.46
40:65:7:TYR:CE2	40:65:91:PRO:HG3	2.51	0.46
48:E5:38:VAL:HG12	48:E5:59:LEU:CG	2.45	0.46
49:F5:87:PRO:O	49:F5:88:LYS:C	2.57	0.46
49:F5:87:PRO:O	49:F5:91:LYS:N	2.48	0.46
1:13:66:G:O4'	1:13:173:U:C4	2.69	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:28:PHE:CE2	2:1E:190:THR:HA	2.51	0.46
7:6E:143:ARG:HH11	24:3K:42:A:P	2.38	0.46
8:7E:39:LEU:HD11	8:7E:111:ILE:HD11	1.97	0.46
13:4I:34:LEU:HD13	13:4I:41:PRO:HB3	1.96	0.46
14:5I:23:ARG:HD2	14:5I:28:GLY:O	2.15	0.46
22:1K:74:C:H42	26:1H:2508:G:H5'	1.81	0.46
24:3K:29:U:H2'	24:3K:30:G:C8	2.50	0.46
26:1H:470:A:H2'	26:1H:471:A:O4'	2.14	0.46
26:1H:731:C:H2'	26:1H:732:C:C6	2.50	0.46
26:1H:803:U:C4	26:1H:804:A:N7	2.84	0.46
26:1H:992:C:H2'	26:1H:993:G:H8	1.81	0.46
26:1H:1845:G:O2'	26:1H:1846:G:H5'	2.15	0.46
26:1H:2057:A:H2'	26:1H:2058:A:C8	2.51	0.46
26:1H:2081:C:O2'	26:1H:2082:A:H5'	2.15	0.46
26:1H:2250:G:C6	38:88:83:MET:HB3	2.50	0.46
28:71:207:THR:O	28:71:210:ARG:HD3	2.15	0.46
30:21:116:VAL:CG2	30:21:122:PHE:CD2	2.98	0.46
30:21:201:THR:HG22	30:21:202:LYS:N	2.30	0.46
31:31:191:ARG:HB3	31:31:191:ARG:HH11	1.80	0.46
35:58:51:PHE:CZ	35:58:119:ARG:HG2	2.51	0.46
37:78:37:GLY:N	37:78:40:SER:OG	2.47	0.46
41:B8:2:ASN:HB3	41:B8:3:ARG:H	1.56	0.46
41:B8:92:GLY:HA2	41:B8:116:ALA:HA	1.97	0.46
1:1G:377:G:H5'	16:7A:5:ARG:NH1	2.30	0.46
1:1G:751:U:H2'	1:1G:752:G:O4'	2.16	0.46
1:1G:843:U:H3'	1:1G:848:C:O4'	2.14	0.46
1:1G:862:C:O2'	1:1G:863:U:H5'	2.16	0.46
1:1G:1189:C:H5''	1:1G:1190:G:OP2	2.15	0.46
4:32:4:TYR:CZ	4:32:11:LEU:HD11	2.50	0.46
16:7A:1:MET:O	16:7A:24:ALA:N	2.32	0.46
22:1L:68:G:H2'	22:1L:69:A:C8	2.51	0.46
26:14:13:A:N1	26:14:525:U:H2'	2.31	0.46
26:14:17:G:H4'	42:85:25:TRP:CH2	2.50	0.46
26:14:643:A:H61	26:14:2369:A:H2	1.62	0.46
26:14:2315:G:H2'	26:14:2316:C:C6	2.50	0.46
26:14:2461:C:H2'	26:14:2462:U:C6	2.49	0.46
26:14:2690:C:H6	26:14:2690:C:OP2	1.99	0.46
26:14:2760:C:H2'	26:14:2761:G:C8	2.50	0.46
27:1J:104:A:H2'	27:1J:105:G:O4'	2.15	0.46
30:29:4:ILE:CD1	30:29:198:VAL:HB	2.45	0.46
31:39:27:GLU:O	31:39:28:ILE:HG12	2.15	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:39:65:TRP:HB3	31:39:66:PRO:HD2	1.97	0.46
32:49:139:LEU:HD22	32:49:146:TYR:CE2	2.51	0.46
32:49:165:THR:OG1	32:49:168:GLU:HG3	2.16	0.46
33:59:74:ASN:O	33:59:78:GLY:N	2.49	0.46
34:69:91:SER:HB3	34:69:119:PRO:HB2	1.98	0.46
34:69:112:LYS:O	34:69:113:ARG:HG2	2.16	0.46
40:65:89:ARG:O	40:65:92:TYR:N	2.47	0.46
42:85:18:LEU:HD23	42:85:18:LEU:HA	1.81	0.46
1:13:173:U:H5''	1:13:197:A:O4'	2.15	0.46
1:13:198:G:O6	1:13:219:C:N4	2.49	0.46
1:13:329:A:C4	1:13:332:G:C5	3.04	0.46
1:13:1301:U:O2	1:13:1301:U:H2'	2.14	0.46
2:1E:219:VAL:HA	2:1E:222:ILE:HD11	1.96	0.46
4:3E:85:LYS:O	4:3E:88:VAL:HG23	2.15	0.46
6:5E:89:MET:HE3	18:9I:76:LEU:HD21	1.96	0.46
8:7E:7:ALA:HB2	8:7E:85:ARG:HH11	1.80	0.46
12:3I:38:THR:HB	12:3I:57:LYS:HB3	1.98	0.46
15:6I:10:LYS:NZ	15:6I:11:VAL:HA	2.29	0.46
24:3K:49:G:H2'	24:3K:49:G:N3	2.30	0.46
26:1H:1266:G:O4'	44:E8:15:ARG:NH2	2.49	0.46
26:1H:1423:G:H2'	26:1H:1424:G:H8	1.80	0.46
26:1H:1434:A:H61	26:1H:1558:A:H62	1.63	0.46
26:1H:1785:A:H2'	26:1H:1787:A:N7	2.31	0.46
26:1H:2291:U:H2'	26:1H:2292:C:C6	2.51	0.46
29:11:28:GLU:HA	29:11:29:PRO:HD2	1.44	0.46
31:31:157:VAL:HB	31:31:194:MET:HG2	1.96	0.46
31:31:184:TYR:HE1	37:78:3:LEU:HD11	1.80	0.46
33:51:4:ILE:O	33:51:6:ARG:HG3	2.15	0.46
33:51:88:LEU:HD12	33:51:129:THR:O	2.16	0.46
36:68:93:PRO:HG3	36:68:114:ILE:HG12	1.98	0.46
37:78:85:LEU:HD23	37:78:85:LEU:HA	1.82	0.46
40:A8:88:ASP:C	40:A8:90:GLY:H	2.23	0.46
47:H8:10:ARG:HH21	47:H8:26:GLY:H	1.62	0.46
47:H8:132:ASN:CG	47:H8:160:GLY:HA3	2.40	0.46
49:J8:86:SER:O	49:J8:90:ILE:HG12	2.16	0.46
1:1G:894:G:C6	1:1G:895:G:C5	3.03	0.46
1:1G:1077:G:N2	1:1G:1080:A:OP2	2.46	0.46
1:1G:1298:C:O2'	1:1G:1299:A:OP2	2.33	0.46
1:1G:1369:C:OP2	9:82:111:ARG:HA	2.15	0.46
4:32:108:LEU:HB2	4:32:174:LEU:HD22	1.98	0.46
4:32:177:ASP:O	4:32:180:GLY:N	2.43	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:42:152:ARG:O	8:72:64:LYS:HD3	2.15	0.46
14:5A:28:GLY:O	14:5A:29:ARG:HG2	2.15	0.46
19:AA:12:ASP:HB2	19:AA:38:SER:HA	1.98	0.46
22:1L:26:A:H4'	22:1L:26:A:OP1	2.15	0.46
22:1L:51:A:N3	22:1L:64:G:N2	2.63	0.46
26:14:499:U:H4'	46:C5:45:VAL:HG21	1.98	0.46
26:14:654(A):A:H2	26:14:654(T):A:N7	2.13	0.46
26:14:1568:G:OP1	29:19:63:ARG:NH1	2.43	0.46
26:14:1582:C:O2'	26:14:1586:A:H8	1.99	0.46
26:14:1771:C:H1'	26:14:1786:A:H8	1.80	0.46
29:19:182:LEU:HB3	29:19:271:ILE:HG13	1.97	0.46
32:49:78:SER:HA	32:49:81:LYS:O	2.15	0.46
35:15:118:LYS:HD2	35:15:118:LYS:HA	1.72	0.46
44:A5:20:VAL:HG23	44:A5:47:VAL:HG21	1.97	0.46
49:F5:27:GLU:HG2	49:F5:27:GLU:H	1.47	0.46
1:13:164:U:H2'	1:13:165:C:C6	2.50	0.46
1:13:297:G:H4'	1:13:557:G:H4'	1.98	0.46
1:13:384:G:H2'	1:13:385:C:C6	2.51	0.46
1:13:585:G:H4'	12:3I:8:ASN:OD1	2.15	0.46
1:13:724:G:C2	1:13:725:G:C8	3.04	0.46
1:13:848:C:H2'	1:13:849:C:O4'	2.16	0.46
1:13:968:A:H4'	1:13:969:A:OP2	2.15	0.46
1:13:1240:U:C5	7:6E:32:ARG:HD2	2.51	0.46
1:13:1424:C:H42	1:13:1476:G:H1	1.64	0.46
2:1E:49:GLU:OE1	2:1E:49:GLU:N	2.46	0.46
2:1E:162:ILE:HG13	2:1E:177:ALA:HB2	1.97	0.46
4:3E:84:LYS:HD3	4:3E:84:LYS:HA	1.51	0.46
5:4E:19:MET:HE1	5:4E:24:ARG:HH21	1.81	0.46
5:4E:27:ARG:HE	5:4E:27:ARG:HB2	1.54	0.46
9:8E:8:GLY:C	9:8E:9:ARG:HD2	2.41	0.46
14:5I:9:LYS:HA	14:5I:12:ARG:HG2	1.97	0.46
20:BI:16:HIS:O	20:BI:19:SER:HB2	2.16	0.46
26:1H:581:C:OP1	42:C8:33:ARG:HG3	2.14	0.46
26:1H:1047:G:H4'	26:1H:1048:A:O5'	2.15	0.46
26:1H:1113:U:H5'	33:51:2:SER:HB2	1.97	0.46
26:1H:1535:U:O4	26:1H:1538:G:O2'	2.16	0.46
26:1H:2022:U:O2'	26:1H:2617:C:H5'	2.16	0.46
26:1H:2118:U:C1'	26:1H:2147:G:H1	2.28	0.46
26:1H:2171:A:H2'	26:1H:2172:U:H6	1.81	0.46
26:1H:2635:C:H5''	30:21:78:LEU:HA	1.98	0.46
27:16:7:G:H4'	40:A8:29:PHE:CD2	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:31:20:LEU:HD12	31:31:21:ALA:H	1.81	0.46
31:31:108:LYS:HE2	31:31:108:LYS:HB3	1.86	0.46
31:31:197:ASP:O	31:31:198:ALA:HB3	2.16	0.46
32:41:91:ARG:HD2	32:41:91:ARG:C	2.40	0.46
32:41:107:LEU:HD11	32:41:178:PHE:HE1	1.81	0.46
43:D8:37:VAL:HG12	43:D8:56:SER:HB2	1.98	0.46
1:1G:192:U:O4'	20:BA:103:GLY:HA2	2.15	0.46
1:1G:628:G:H2'	1:1G:629:G:C8	2.50	0.46
2:12:91:PRO:CG	2:12:154:LEU:HB2	2.45	0.46
2:12:213:LEU:HG	2:12:214:ILE:HD13	1.97	0.46
3:22:47:LEU:HD12	3:22:50:ALA:HB3	1.98	0.46
4:32:64:LEU:HA	4:32:67:ILE:HD12	1.97	0.46
5:42:92:LYS:N	5:42:119:LEU:O	2.33	0.46
6:52:42:GLU:HG2	6:52:61:LEU:HG	1.96	0.46
9:82:17:VAL:HG21	9:82:81:ILE:HG13	1.97	0.46
12:3A:92:ASP:O	12:3A:93:LEU:HD23	2.15	0.46
13:4A:64:TRP:NE1	13:4A:66:LEU:HD23	2.30	0.46
15:6A:70:LEU:HD11	15:6A:77:ARG:HG3	1.97	0.46
26:14:569:U:C4	26:14:570:G:C6	3.04	0.46
26:14:1366:A:H2'	26:14:1367:A:O4'	2.15	0.46
26:14:1810:A:H2'	26:14:1811:G:O4'	2.15	0.46
26:14:1889:A:N1	26:14:2234:G:H1'	2.31	0.46
26:14:2068:U:H3	26:14:2430:A:H2	1.56	0.46
26:14:2695:C:H2'	26:14:2696:U:C6	2.50	0.46
29:19:119:ALA:HA	29:19:130:ALA:O	2.15	0.46
39:55:8:ARG:O	39:55:17:ARG:HD3	2.16	0.46
42:85:92:ARG:HG3	42:85:94:ASN:HB3	1.96	0.46
44:A5:23:LEU:HD21	53:J5:25:LEU:HB3	1.98	0.46
44:A5:65:LEU:HD13	44:A5:68:ARG:CD	2.46	0.46
47:D5:24:LEU:O	47:D5:38:TYR:HB2	2.16	0.46
1:13:376:G:O3'	16:7I:5:ARG:NH1	2.31	0.46
1:13:422:C:H4'	1:13:423:G:O5'	2.15	0.46
1:13:464:G:O6	1:13:466:C:H4'	2.16	0.46
1:13:663:A:H2'	1:13:664:G:O4'	2.15	0.46
1:13:922:G:C6	1:13:923:A:C6	3.04	0.46
5:4E:145:LYS:O	5:4E:148:VAL:HB	2.15	0.46
7:6E:89:MET:HE3	7:6E:155:ARG:HA	1.96	0.46
8:7E:103:VAL:HG12	8:7E:138:TRP:HD1	1.80	0.46
16:7I:7:ALA:HB3	16:7I:18:ARG:HB2	1.98	0.46
26:1H:301:G:C4	26:1H:302:C:C5	3.04	0.46
26:1H:353:G:H2'	26:1H:354:G:C8	2.50	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1205:U:H4'	26:1H:1206:G:OP2	2.15	0.46
26:1H:1443:G:N2	26:1H:1549:C:C2	2.83	0.46
26:1H:1668:A:OP1	36:68:5:GLN:HG3	2.16	0.46
26:1H:1808:U:H2'	26:1H:1809:A:O4'	2.16	0.46
26:1H:1913:A:H4'	26:1H:1914:C:O5'	2.15	0.46
26:1H:2355:C:O2	48:I8:39:ARG:NH2	2.46	0.46
26:1H:2453:A:OP2	60:1H:3558:HOH:O	2.21	0.46
26:1H:2468:G:O4'	26:1H:2468:G:N3	2.49	0.46
26:1H:2564:A:C2	26:1H:2647:U:H4'	2.51	0.46
30:21:203:LYS:HD2	30:21:203:LYS:O	2.16	0.46
32:41:97:ASP:O	32:41:100:TRP:N	2.49	0.46
37:78:37:GLY:O	37:78:40:SER:OG	2.32	0.46
38:88:20:ALA:HB3	47:H8:79:ARG:CZ	2.44	0.46
38:88:23:GLY:H	47:H8:78:LYS:HE3	1.81	0.46
40:A8:12:PHE:HA	40:A8:15:ARG:HB2	1.97	0.46
46:G8:96:ILE:HD12	46:G8:101:LYS:HE2	1.98	0.46
49:J8:80:LEU:C	49:J8:81:LYS:HD2	2.40	0.46
52:M8:9:LEU:HD12	52:M8:27:THR:H	1.81	0.46
1:1G:584:G:OP1	17:8A:87:LYS:HD2	2.15	0.46
1:1G:1129:C:N4	1:1G:1139:G:H22	2.14	0.46
1:1G:1236:A:H4'	1:1G:1304:G:H4'	1.97	0.46
1:1G:1359:C:H5''	60:1G:1760:HOH:O	2.14	0.46
2:12:172:ILE:H	2:12:172:ILE:HD12	1.79	0.46
3:22:20:SER:HB2	3:22:40:ARG:HH22	1.79	0.46
12:3A:91:LYS:O	12:3A:91:LYS:HG3	2.16	0.46
26:14:315:G:H2'	26:14:316:C:C6	2.51	0.46
26:14:463:G:N2	26:14:466:A:OP2	2.46	0.46
26:14:597:U:H2'	26:14:598:G:H8	1.76	0.46
26:14:674:G:H2'	26:14:804:A:H61	1.81	0.46
26:14:754:C:H2'	26:14:755:C:H6	1.80	0.46
26:14:946:G:H2'	26:14:947:G:H8	1.81	0.46
26:14:1057:A:H3'	26:14:1058:U:C6	2.51	0.46
26:14:1359:A:H5'	26:14:1359:A:H8	1.81	0.46
26:14:1942:C:OP2	26:14:1943:U:O2'	2.11	0.46
26:14:1991:U:C2'	26:14:1992:G:H5''	2.46	0.46
26:14:2123:G:H1'	28:79:172:HIS:CD2	2.50	0.46
29:19:30:GLU:HG3	29:19:63:ARG:NH2	2.30	0.46
29:19:136:ILE:HG23	29:19:137:PRO:HD2	1.98	0.46
30:29:32:PRO:HG3	30:29:90:THR:HG22	1.97	0.46
30:29:119:ARG:HA	30:29:160:TYR:CD2	2.51	0.46
46:C5:8:LYS:HZ3	46:C5:95:LYS:HD2	1.80	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:37:VAL:O	46:C5:67:LEU:N	2.48	0.46
47:D5:53:ILE:CG2	47:D5:71:VAL:HG23	2.28	0.46
47:D5:130:PRO:HA	47:D5:133:ILE:HD11	1.97	0.46
50:G5:50:ILE:CD1	50:G5:51:ARG:N	2.73	0.46
55:M5:60:LEU:HD23	55:M5:60:LEU:HA	1.79	0.46
1:13:5:U:H3'	4:3E:86:LYS:HE3	1.98	0.46
1:13:109:A:C6	1:13:326:G:C6	3.03	0.46
1:13:240:C:H2'	1:13:241:C:H6	1.81	0.46
1:13:953:G:C6	1:13:954:G:C4	3.04	0.46
1:13:992:U:H4'	1:13:993:G:O5'	2.16	0.46
4:3E:84:LYS:HB2	4:3E:85:LYS:HE2	1.96	0.46
8:7E:97:VAL:HG12	8:7E:98:LYS:HE3	1.98	0.46
15:6I:81:LEU:O	15:6I:85:LEU:HB2	2.16	0.46
20:BI:79:ARG:HG2	20:BI:83:ARG:NH1	2.30	0.46
22:1K:6:G:O2'	22:1K:7:U:O5'	2.26	0.46
26:1H:71:A:H4'	26:1H:72:U:H5''	1.97	0.46
26:1H:551:G:H8	26:1H:551:G:O5'	1.99	0.46
26:1H:681:G:H2'	26:1H:682:G:O4'	2.16	0.46
26:1H:941:A:H3'	26:1H:942:G:C8	2.50	0.46
26:1H:1188:U:H5'	43:D8:79:VAL:HG22	1.98	0.46
26:1H:2016:U:H1'	53:N8:6:VAL:CG1	2.46	0.46
26:1H:2086:U:H2'	26:1H:2087:G:C8	2.51	0.46
26:1H:2751:G:C2	33:51:3:ARG:HB3	2.51	0.46
31:31:185:ASP:OD1	31:31:188:ARG:HD3	2.16	0.46
42:C8:92:ARG:HH21	43:D8:10:LYS:HG2	1.80	0.46
47:H8:10:ARG:HH21	47:H8:26:GLY:N	2.14	0.46
1:1G:667:G:H2'	1:1G:668:G:C8	2.50	0.46
1:1G:1047:G:H5''	14:5A:4:LYS:HE2	1.97	0.46
1:1G:1347:G:H22	1:1G:1374:A:P	2.39	0.46
3:22:90:GLU:O	3:22:93:LYS:HE2	2.16	0.46
4:32:100:ARG:HG2	4:32:136:PRO:O	2.16	0.46
5:42:76:ILE:HG23	5:42:142:LEU:HD13	1.96	0.46
11:2A:98:LEU:HA	11:2A:101:SER:HB3	1.98	0.46
12:3A:111:LYS:H	12:3A:111:LYS:CD	2.20	0.46
13:4A:84:ILE:HG12	19:AA:63:THR:HG21	1.97	0.46
26:14:77:C:O3'	50:G5:14:ARG:NH2	2.49	0.46
26:14:383:U:H2'	26:14:385:C:H5	1.79	0.46
26:14:1728:G:H5''	26:14:1728:G:N3	2.31	0.46
26:14:1812:A:O2'	29:19:45:ASN:HB2	2.15	0.46
26:14:1828:G:O6	29:19:222:ARG:HD3	2.16	0.46
26:14:2505:G:H2'	26:14:2576:G:O6	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:182:LEU:C	30:29:183:LEU:HD12	2.41	0.46
32:49:97:ASP:N	32:49:100:TRP:HD1	2.11	0.46
32:49:121:ASN:OD1	32:49:124:SER:N	2.49	0.46
34:69:142:VAL:HG12	34:69:143:SER:N	2.29	0.46
37:35:27:HIS:HB3	37:35:32:THR:HG23	1.97	0.46
42:85:91:ASP:C	42:85:93:LYS:H	2.24	0.46
45:B5:36:LYS:HG3	45:B5:56:THR:HG23	1.97	0.46
51:H5:38:GLU:HG3	51:H5:39:ASP:H	1.80	0.46
1:13:61:G:H1	1:13:106:C:H42	1.64	0.46
1:13:169:C:H2'	1:13:170:U:H5'	1.97	0.46
1:13:186:C:O4'	20:BI:81:LYS:NZ	2.49	0.46
1:13:753:A:H4'	1:13:754:C:C5'	2.46	0.46
2:1E:86:GLU:C	2:1E:89:GLY:H	2.24	0.46
3:2E:47:LEU:HB2	3:2E:52:LEU:HD13	1.98	0.46
5:4E:122:GLU:HG2	5:4E:131:ILE:CD1	2.46	0.46
15:6I:55:GLY:HA2	15:6I:58:MET:HE3	1.98	0.46
26:1H:1453:A:O2'	26:1H:1454:U:H2'	2.15	0.46
26:1H:2556:C:H2'	26:1H:2557:G:O4'	2.16	0.46
26:1H:2590:A:C2	26:1H:2605:U:C2	3.04	0.46
26:1H:2849:U:O4	41:B8:23:ARG:NH2	2.49	0.46
31:31:28:ILE:O	31:31:28:ILE:HD12	2.15	0.46
32:41:79:ASN:OD1	32:41:79:ASN:N	2.49	0.46
37:78:68:GLN:HG2	55:Q8:12:LYS:HD3	1.97	0.46
37:78:94:GLU:HG3	37:78:96:THR:HG23	1.98	0.46
42:C8:92:ARG:HD3	42:C8:94:ASN:HB3	1.97	0.46
46:G8:28:LYS:HE3	46:G8:40:GLU:HB2	1.98	0.46
1:1G:97:U:H2'	1:1G:99:C:C6	2.51	0.46
1:1G:841:U:H4'	1:1G:842:C:C5	2.51	0.46
4:32:145:GLU:HG3	4:32:182:LYS:HG3	1.98	0.46
4:32:182:LYS:NZ	4:32:184:LYS:HE2	2.31	0.46
6:52:23:LYS:HG2	6:52:61:LEU:HD21	1.98	0.46
13:4A:82:MET:HG3	13:4A:83:ASP:H	1.81	0.46
26:14:547:A:H2'	26:14:548:A:C8	2.51	0.46
26:14:841:A:H61	26:14:937:U:H3	1.63	0.46
26:14:1259:G:H2'	26:14:1260:G:H8	1.80	0.46
26:14:1717:G:H2'	26:14:1718:G:O4'	2.16	0.46
26:14:1921:G:H2'	26:14:1922:G:H8	1.79	0.46
26:14:2552:U:O5'	26:14:2552:U:H6	1.98	0.46
26:14:2615:U:C2	53:J5:7:PRO:HA	2.51	0.46
26:14:2635:C:H5'	30:29:78:LEU:HD12	1.98	0.46
26:14:2799:A:H5'	26:14:2801:A:O4'	2.16	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:61:G:C6	27:1J:62:C:C4	3.04	0.46
28:79:45:ALA:HB3	28:79:171:ILE:HG21	1.98	0.46
29:19:38:LYS:HB3	29:19:38:LYS:HE3	1.46	0.46
30:29:64:LYS:C	30:29:66:HIS:N	2.73	0.46
31:39:184:TYR:CE2	31:39:188:ARG:HD3	2.51	0.46
34:69:101:LEU:HD23	34:69:101:LEU:H	1.81	0.46
37:35:21:ARG:HA	37:35:21:ARG:HE	1.80	0.46
37:35:138:LEU:O	37:35:138:LEU:HD13	2.15	0.46
38:45:18:LYS:H	38:45:98:LYS:HZ2	1.63	0.46
41:75:132:LYS:HB2	41:75:133:GLU:OE1	2.16	0.46
42:85:92:ARG:NH1	43:95:11:GLN:H	2.13	0.46
42:85:100:VAL:C	42:85:102:GLU:H	2.24	0.46
47:D5:39:VAL:HG21	47:D5:44:PHE:HB2	1.97	0.46
1:13:243:A:H4'	1:13:244:U:H5''	1.97	0.46
1:13:266:G:H8	1:13:266:G:H2'	1.68	0.46
1:13:321:A:N6	1:13:328:C:H1'	2.27	0.46
1:13:652:U:HO2'	1:13:653:A:P	2.39	0.46
1:13:946:A:H2'	1:13:947:G:C8	2.51	0.46
1:13:1004:A:N3	1:13:1004:A:H5''	2.31	0.46
1:13:1333:A:H2'	1:13:1334:G:O4'	2.16	0.46
1:13:1511:G:H2'	1:13:1512:U:O4'	2.15	0.46
1:13:1534:A:P	1:13:1534:A:H8	2.39	0.46
3:2E:125:GLU:HG2	3:2E:190:ARG:O	2.16	0.46
7:6E:22:LEU:HD22	7:6E:62:PHE:CZ	2.51	0.46
13:4I:16:ASP:OD1	13:4I:16:ASP:N	2.48	0.46
17:8I:88:TYR:CD1	17:8I:89:LEU:HD22	2.44	0.46
20:BI:36:LEU:HD12	20:BI:55:ILE:HG23	1.97	0.46
22:1K:60:U:H5'	22:1K:61:C:H5	1.81	0.46
26:1H:85:G:OP2	46:G8:9:LYS:HB2	2.15	0.46
26:1H:94:G:H2'	26:1H:95:G:O4'	2.16	0.46
26:1H:298:G:N7	46:G8:84:ARG:NH1	2.64	0.46
26:1H:1442:G:H2'	26:1H:1443:G:H8	1.78	0.46
26:1H:1728:G:C3'	26:1H:1729:A:H5'	2.35	0.46
26:1H:2075:U:H2'	26:1H:2238:G:N2	2.31	0.46
27:16:14:U:O3'	27:16:107:U:O2'	2.29	0.46
28:71:41:VAL:O	28:71:175:VAL:HG22	2.16	0.46
30:21:143:ASN:HB2	30:21:147:PRO:HD2	1.98	0.46
35:58:14:VAL:HG21	35:58:33:LEU:HD23	1.98	0.46
38:88:136:ALA:HB1	47:H8:52:SER:HB2	1.98	0.46
44:E8:59:VAL:HG11	44:E8:66:GLU:HB2	1.98	0.46
1:1G:107:G:C2	1:1G:108:G:H1'	2.51	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:176:C:O2'	1:1G:177:C:H5'	2.16	0.46
1:1G:491:G:C6	1:1G:492:G:C5	3.04	0.46
1:1G:771:G:H2'	1:1G:772:U:C6	2.50	0.46
1:1G:980:C:H3'	1:1G:981:U:C6	2.51	0.46
1:1G:1149:C:O2'	1:1G:1280:A:N1	2.48	0.46
1:1G:1157:A:O4'	1:1G:1158:C:H6	1.99	0.46
1:1G:1316:G:H22	1:1G:1319:A:P	2.39	0.46
2:12:56:ARG:H	2:12:56:ARG:HG3	1.54	0.46
3:22:182:ILE:HA	3:22:202:ILE:O	2.16	0.46
4:32:4:TYR:CD1	4:32:4:TYR:C	2.94	0.46
4:32:26:CYS:SG	58:32:301:SF4:S1	3.12	0.46
9:82:20:ARG:O	9:82:60:ASP:N	2.47	0.46
12:3A:32:PHE:HD1	12:3A:86:ARG:HA	1.81	0.46
13:4A:20:THR:HG22	13:4A:26:GLY:C	2.41	0.46
15:6A:76:GLU:HA	15:6A:79:ARG:CZ	2.46	0.46
26:14:142:G:H2'	26:14:143:C:H6	1.80	0.46
26:14:528:A:N1	26:14:2042:A:H2'	2.31	0.46
26:14:639:U:H2'	26:14:640:C:C6	2.50	0.46
26:14:661:C:H1'	37:35:12:ALA:HA	1.98	0.46
26:14:729:G:OP1	29:19:10:THR:OG1	2.30	0.46
26:14:1946:U:H2'	26:14:1947:C:H6	1.80	0.46
26:14:2438:U:H5''	26:14:2600:A:OP1	2.16	0.46
26:14:2873:A:H3'	26:14:2874:C:C6	2.51	0.46
29:19:31:LYS:HZ1	29:19:102:LYS:HD3	1.80	0.46
29:19:262:ARG:NH1	29:19:263:ARG:N	2.64	0.46
31:39:36:VAL:HG11	31:39:183:VAL:HG21	1.97	0.46
39:55:115:GLU:HG3	39:55:116:LEU:O	2.16	0.46
40:65:42:ASP:C	40:65:44:LYS:H	2.24	0.46
48:E5:21:LEU:HD23	48:E5:21:LEU:HA	1.80	0.46
1:13:57:G:H2'	1:13:58:C:H6	1.79	0.45
1:13:186(C):G:C6	1:13:191(E):G:C6	3.04	0.45
1:13:329:A:C5	1:13:332:G:C6	3.04	0.45
1:13:718:G:H5'	11:2I:117:ASN:HB2	1.97	0.45
1:13:991:U:C5	1:13:1212:U:H1'	2.51	0.45
1:13:1453:G:H2'	20:BI:39:LYS:CE	2.46	0.45
1:13:1486:G:C6	1:13:1487:G:C6	3.05	0.45
2:1E:28:PHE:CD2	2:1E:190:THR:HA	2.51	0.45
2:1E:97:TRP:CZ3	2:1E:172:ILE:HB	2.51	0.45
8:7E:44:PHE:HE2	8:7E:109:ILE:CG2	2.29	0.45
21:1F:17:THR:O	21:1F:22:ARG:HD3	2.16	0.45
22:1K:75:C:H2'	22:1K:76:A:C4	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:484:C:OP1	46:G8:51:VAL:HG22	2.16	0.45
26:1H:507:A:H5''	26:1H:508:G:H3'	1.98	0.45
26:1H:822:U:O2'	26:1H:823:G:H5'	2.15	0.45
26:1H:858:U:O2	26:1H:2268:A:H2'	2.16	0.45
26:1H:1110:G:O2'	26:1H:1111:A:OP2	2.28	0.45
26:1H:1138:G:N2	35:58:106:MET:HE3	2.20	0.45
26:1H:2698:U:H2'	26:1H:2699:C:C6	2.51	0.45
28:71:216:THR:HB	28:71:218:MET:H	1.80	0.45
29:11:31:LYS:HG3	29:11:33:LEU:HD21	1.98	0.45
29:11:35:LYS:O	29:11:35:LYS:CG	2.65	0.45
32:41:62:LEU:HA	32:41:62:LEU:HD12	1.71	0.45
35:58:85:ILE:HG21	35:58:90:MET:HE2	1.98	0.45
36:68:71:ARG:HH21	36:68:77:ILE:HG21	1.80	0.45
43:D8:15:GLU:O	43:D8:96:ILE:HB	2.17	0.45
47:H8:151:HIS:HA	47:H8:170:THR:HA	1.97	0.45
50:K8:47:ASN:ND2	50:K8:47:ASN:H	2.14	0.45
54:P8:13:ALA:O	54:P8:17:GLY:HA3	2.16	0.45
55:Q8:49:VAL:O	55:Q8:51:ALA:N	2.48	0.45
1:1G:146:G:H2'	1:1G:147:G:C8	2.49	0.45
1:1G:414:A:H2'	1:1G:415:A:C8	2.51	0.45
1:1G:639:G:H2'	1:1G:640:A:H8	1.81	0.45
1:1G:837:G:H2'	1:1G:838:G:C8	2.51	0.45
1:1G:1216:G:H5''	14:5A:5:ALA:CB	2.46	0.45
1:1G:1298:C:N4	7:62:114:ARG:HB3	2.31	0.45
2:12:179:LYS:HD3	2:12:180:LEU:HG	1.98	0.45
2:12:187:LEU:HD22	2:12:188:ALA:N	2.31	0.45
3:22:43:LEU:HD21	3:22:68:VAL:HG21	1.97	0.45
4:32:82:ALA:HB3	4:32:89:THR:HG23	1.97	0.45
6:52:33:TYR:OH	6:52:78:GLU:HG3	2.16	0.45
10:1A:36:GLY:O	10:1A:38:ILE:HG23	2.16	0.45
14:5A:22:THR:HB	14:5A:33:VAL:HG21	1.97	0.45
15:6A:76:GLU:OE2	15:6A:79:ARG:NH1	2.49	0.45
16:7A:2:VAL:HA	16:7A:23:ASP:HA	1.97	0.45
22:1L:9:A:H3'	22:1L:10:G:N7	2.31	0.45
26:14:588:U:H2'	26:14:589:C:C6	2.51	0.45
26:14:853:G:H1	26:14:924:C:H42	1.64	0.45
26:14:1091:G:N2	26:14:1092:C:N3	2.62	0.45
26:14:1190:G:OP1	37:35:32:THR:HA	2.16	0.45
26:14:1204:A:N1	26:14:1241:A:H2	2.14	0.45
26:14:1243:G:H1'	37:35:4:SER:O	2.15	0.45
29:19:175:LEU:HD21	29:19:185:VAL:CG2	2.47	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:29:116:VAL:O	30:29:117:MET:HG2	2.16	0.45
31:39:49:ALA:O	31:39:92:PRO:HB2	2.16	0.45
32:49:59:GLU:CD	32:49:153:ARG:NH2	2.70	0.45
40:65:77:ALA:HB1	40:65:82:ILE:HG12	1.98	0.45
46:C5:47:LYS:HA	46:C5:60:PHE:CE2	2.51	0.45
47:D5:102:LEU:HD23	47:D5:137:ILE:O	2.15	0.45
1:13:123:C:OP1	1:13:312:C:H5'	2.16	0.45
1:13:609:A:H2'	1:13:610:G:H5'	1.98	0.45
1:13:626:U:C2	1:13:627:G:C8	3.05	0.45
2:1E:165:VAL:HG23	2:1E:166:ASP:N	2.29	0.45
2:1E:187:LEU:HD21	2:1E:211:ILE:HG22	1.96	0.45
3:2E:42:LEU:HD13	3:2E:42:LEU:HA	1.85	0.45
3:2E:142:MET:SD	3:2E:148:GLY:HA2	2.56	0.45
7:6E:27:ILE:HA	7:6E:30:ILE:HD12	1.98	0.45
8:7E:109:ILE:HG23	8:7E:137:VAL:CG2	2.39	0.45
26:1H:558:G:P	35:58:111:PRO:HD2	2.57	0.45
26:1H:1287:A:H3'	26:1H:1288:U:C6	2.52	0.45
26:1H:1423:G:C4	26:1H:1424:G:C8	3.04	0.45
26:1H:1528:A:N6	26:1H:1529:A:N1	2.64	0.45
26:1H:1799:G:C5'	26:1H:1819:A:H61	2.30	0.45
26:1H:1906:G:O2'	26:1H:1907:G:H5'	2.16	0.45
26:1H:1972:A:H2'	26:1H:1973:G:H8	1.80	0.45
26:1H:2315:G:H5''	26:1H:2316:C:OP2	2.16	0.45
26:1H:2335:A:C8	26:1H:2337:G:C5	3.04	0.45
28:71:22:ILE:HD11	28:71:226:PRO:O	2.15	0.45
29:11:146:GLU:HG3	29:11:190:TYR:H	1.81	0.45
32:41:96:ARG:O	32:41:97:ASP:HB2	2.16	0.45
33:51:2:SER:O	33:51:2:SER:OG	2.33	0.45
34:61:145:VAL:HG22	34:61:146:ALA:H	1.81	0.45
35:58:130:HIS:CA	35:58:134:ARG:HH22	2.30	0.45
41:B8:19:LEU:HD22	41:B8:86:ILE:HG22	1.97	0.45
50:K8:62:THR:O	50:K8:66:GLU:HG2	2.16	0.45
52:M8:38:LYS:HE3	52:M8:44:THR:HG21	1.97	0.45
54:P8:35:ARG:HG3	54:P8:42:LEU:HD11	1.98	0.45
1:1G:184:G:C2'	1:1G:185:A:H5'	2.46	0.45
1:1G:555:C:H2'	1:1G:556:C:C6	2.51	0.45
1:1G:690:G:H22	11:2A:55:LYS:HE2	1.81	0.45
1:1G:1402:C:H2'	1:1G:1403:C:O4'	2.16	0.45
1:1G:1442:G:O2'	1:1G:1443:G:OP1	2.33	0.45
1:1G:1465:C:H2'	1:1G:1466:C:O4'	2.17	0.45
1:1G:1524:C:H2'	1:1G:1525:G:C8	2.51	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:12:GLU:HG3	2:12:16:HIS:ND1	2.30	0.45
4:32:24:GLU:O	4:32:27:TYR:N	2.48	0.45
5:42:11:ILE:HD12	5:42:31:LEU:HD12	1.98	0.45
5:42:103:GLY:C	5:42:106:PRO:HD2	2.41	0.45
6:52:76:ALA:HB1	6:52:80:ARG:NH2	2.26	0.45
24:3L:18:G:H2'	24:3L:57:G:N2	2.31	0.45
26:14:49:A:H4'	26:14:50:U:H5''	1.98	0.45
26:14:228:A:OP1	37:35:76:LYS:NZ	2.36	0.45
26:14:483:A:H5'	46:C5:49:VAL:HG23	1.99	0.45
26:14:636:G:O2'	26:14:638:G:O2'	2.27	0.45
26:14:642:G:H3'	26:14:642:G:C8	2.51	0.45
26:14:649:G:H2'	26:14:650:C:H6	1.80	0.45
26:14:860:U:C2	26:14:2268:A:C8	3.04	0.45
26:14:1358:G:O2'	26:14:1359:A:H5''	2.15	0.45
26:14:1798:U:H5'	29:19:259:THR:OG1	2.17	0.45
26:14:2232:U:O2'	26:14:2233:U:H5'	2.15	0.45
26:14:2647:U:O2	26:14:2673:G:N2	2.33	0.45
26:14:2841:C:H2'	26:14:2842:G:C8	2.51	0.45
26:14:2873:A:H8	39:55:6:SER:N	2.09	0.45
30:29:103:ASP:N	30:29:200:GLU:O	2.44	0.45
30:29:111:ARG:HB3	39:55:1:MET:HE1	1.98	0.45
35:15:128:HIS:CE1	35:15:130:HIS:HA	2.52	0.45
54:L5:5:TRP:CD1	54:L5:7:PRO:HG3	2.51	0.45
1:13:22:G:H2'	1:13:23:C:C6	2.51	0.45
1:13:380:G:C2	1:13:384:G:C6	3.04	0.45
1:13:590:C:N4	1:13:649:G:H1	2.15	0.45
1:13:690:G:H2'	1:13:691:G:O4'	2.17	0.45
1:13:1060:C:HO2'	10:1I:56:HIS:CE1	2.34	0.45
4:3E:31:CYS:C	4:3E:33:MET:H	2.24	0.45
9:8E:28:VAL:HA	9:8E:63:ILE:O	2.16	0.45
15:6I:71:GLN:HG2	15:6I:78:TYR:CE1	2.51	0.45
26:1H:71:A:H2	45:F8:31:HIS:NE2	2.05	0.45
26:1H:274:G:H1'	26:1H:276:A:C2	2.51	0.45
26:1H:1371:G:H2'	26:1H:1372:U:C5	2.51	0.45
26:1H:1466:G:H2'	26:1H:1547:C:N4	2.31	0.45
26:1H:1550:C:O2'	26:1H:1551:C:H5'	2.16	0.45
26:1H:1696:G:C6	26:1H:1697:G:C4	3.04	0.45
26:1H:2101:G:H2'	26:1H:2102:U:O4'	2.15	0.45
26:1H:2393:A:H2'	26:1H:2394:C:H6	1.81	0.45
26:1H:2729:G:H2'	26:1H:2730:C:C6	2.51	0.45
37:78:35:HIS:O	37:78:36:LYS:C	2.58	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:C8:65:ILE:CG1	42:C8:96:ALA:HB2	2.46	0.45
42:C8:91:ASP:O	42:C8:92:ARG:C	2.59	0.45
45:F8:44:GLU:HG2	45:F8:49:VAL:O	2.16	0.45
45:F8:52:VAL:HG22	45:F8:82:GLN:O	2.16	0.45
50:K8:38:GLN:NE2	50:K8:44:LEU:O	2.47	0.45
1:1G:888:G:H4'	1:1G:1489:G:H5'	1.98	0.45
1:1G:998(A):C:H2'	1:1G:999:U:C6	2.51	0.45
1:1G:1023:G:H5''	1:1G:1024:G:N2	2.31	0.45
1:1G:1122:U:C2'	1:1G:1123:A:H5'	2.47	0.45
1:1G:1277:C:H1'	1:1G:1282:C:O2	2.16	0.45
1:1G:1296:C:H5'	13:4A:14:ARG:HD3	1.98	0.45
4:32:15:GLU:OE1	4:32:59:ARG:NH2	2.46	0.45
9:82:58:HIS:HB3	9:82:59:PHE:CZ	2.52	0.45
12:3A:47:LYS:CG	12:3A:48:PRO:HD2	2.46	0.45
26:14:389:G:H22	37:35:72:PRO:HD3	1.81	0.45
26:14:638:G:H2'	26:14:639:U:O4'	2.17	0.45
26:14:1109:C:H2'	26:14:1110:G:C1'	2.44	0.45
26:14:1418:G:H2'	26:14:1579:A:N6	2.31	0.45
26:14:1753:G:N1	26:14:1756:G:C2	2.85	0.45
26:14:1973:G:H2'	26:14:1974:C:C6	2.50	0.45
26:14:2165:G:C3'	26:14:2166:G:H5'	2.46	0.45
26:14:2637:U:C4	26:14:2638:G:C6	3.04	0.45
27:1J:4:C:H2'	27:1J:5:C:C6	2.51	0.45
27:1J:52:A:H61	40:65:33:LYS:HD3	1.80	0.45
30:29:54:GLN:H	30:29:74:PRO:CB	2.27	0.45
32:49:18:GLU:O	32:49:22:ARG:N	2.50	0.45
32:49:56:ALA:HA	32:49:59:GLU:HB3	1.98	0.45
33:59:6:ARG:HH22	33:59:54:ARG:HH12	1.63	0.45
33:59:56:SER:HB3	33:59:61:HIS:CE1	2.52	0.45
1:13:807:A:H2'	1:13:808:C:C6	2.51	0.45
1:13:1350:A:H2	7:6E:34:GLY:HA3	1.82	0.45
1:13:1422:G:O3'	36:68:49:ARG:NH2	2.49	0.45
2:1E:67:THR:HG22	2:1E:68:ILE:N	2.31	0.45
2:1E:197:VAL:O	8:7E:68:ARG:NH2	2.47	0.45
4:3E:102:ASP:OD1	4:3E:103:ASN:N	2.49	0.45
4:3E:122:ARG:NH1	4:3E:135:LEU:HD13	2.30	0.45
17:8I:27:PHE:O	17:8I:35:VAL:HA	2.16	0.45
22:1K:34:U8U:HN3	25:4K:21:A:H2	1.65	0.45
26:1H:518:G:H2'	26:1H:519:U:H6	1.81	0.45
26:1H:628:G:H2'	26:1H:629:G:C8	2.51	0.45
26:1H:649:G:C5	26:1H:650:C:C4	3.05	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:862:G:H5'	27:16:79:C:H4'	1.99	0.45
26:1H:1290:C:H2'	26:1H:1291:C:C6	2.52	0.45
26:1H:1782:C:O4'	26:1H:2609:U:C2	2.69	0.45
26:1H:2040:C:H2'	26:1H:2041:U:O4'	2.17	0.45
26:1H:2262:U:H4'	26:1H:2328:A:C2	2.51	0.45
26:1H:2886:G:H2'	26:1H:2887:U:C6	2.51	0.45
28:71:66:HIS:NE2	28:71:184:LYS:HB3	2.31	0.45
32:41:143:GLU:HG2	52:M8:27:THR:HG22	1.98	0.45
37:78:112:LEU:H	37:78:128:HIS:HD1	1.64	0.45
38:88:5:ARG:HH22	38:88:6:ARG:CZ	2.29	0.45
40:A8:8:GLU:H	40:A8:8:GLU:HG2	1.53	0.45
41:B8:50:ILE:CD1	41:B8:102:ILE:HD13	2.45	0.45
42:C8:15:LYS:HB3	42:C8:15:LYS:HE2	1.55	0.45
1:1G:115:G:H4'	1:1G:116:A:O5'	2.15	0.45
1:1G:678:U:H2'	1:1G:679:C:C6	2.52	0.45
3:22:190:ARG:HA	3:22:190:ARG:HE	1.80	0.45
4:32:24:GLU:HG2	4:32:25:ARG:N	2.28	0.45
11:2A:87:THR:O	11:2A:87:THR:OG1	2.34	0.45
12:3A:89:ARG:HG2	12:3A:90:VAL:N	2.31	0.45
20:BA:86:ARG:NH1	20:BA:86:ARG:HB2	2.31	0.45
26:14:189:G:H1	26:14:205:G:HO2'	1.63	0.45
26:14:1769:G:O2'	26:14:1958:C:OP1	2.29	0.45
26:14:2104:G:H2'	26:14:2105:C:C6	2.51	0.45
26:14:2459:A:C4	26:14:2460:U:C5	3.05	0.45
28:79:207:THR:HG22	28:79:209:LEU:H	1.80	0.45
30:29:11:MET:HE3	30:29:186:GLY:HA2	1.98	0.45
32:49:73:ALA:HB1	32:49:82:LEU:HD11	1.97	0.45
35:15:128:HIS:NE2	35:15:134:ARG:HD3	2.31	0.45
41:75:18:ASP:OD1	41:75:18:ASP:N	2.50	0.45
45:B5:49:VAL:HB	45:B5:83:VAL:HG21	1.98	0.45
46:C5:67:LEU:HD12	46:C5:67:LEU:HA	1.70	0.45
47:D5:101:PRO:HA	47:D5:123:ASP:N	2.32	0.45
1:13:191(C):G:H2'	1:13:191(D):U:O4'	2.16	0.45
1:13:355:C:H2'	1:13:356:A:O4'	2.17	0.45
1:13:445:G:H1	1:13:489:C:N4	2.04	0.45
1:13:458:C:H42	1:13:474:G:H1	1.65	0.45
1:13:657:G:H4'	15:6I:28:GLN:HG2	1.99	0.45
1:13:1313:U:O4	19:AI:3:ARG:HA	2.16	0.45
16:7I:35:LYS:HE2	16:7I:37:GLY:O	2.17	0.45
21:1F:5:ASP:O	21:1F:11:GLY:HA3	2.16	0.45
22:1K:3:G:C2	22:1K:71:C:H1'	2.52	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:637:A:H4'	26:1H:638:G:O5'	2.16	0.45
26:1H:724:U:H2'	26:1H:725:G:O4'	2.16	0.45
26:1H:1176:G:H2'	26:1H:1177:A:C2	2.52	0.45
26:1H:1212:G:O2'	26:1H:1213:A:OP2	2.30	0.45
26:1H:1443:G:N2	26:1H:1549:C:O2	2.49	0.45
26:1H:1449:A:N7	26:1H:1449(A):G:C8	2.85	0.45
26:1H:1911:U:O4	26:1H:1918:A:H2'	2.17	0.45
26:1H:2127:G:C6	26:1H:2128:C:C4	3.04	0.45
26:1H:2329:G:H2'	26:1H:2330:G:C8	2.52	0.45
27:16:44:G:H1'	27:16:47:C:H42	1.80	0.45
29:11:218:ARG:HB3	29:11:219:PRO:HD2	1.98	0.45
30:21:11:MET:HE2	30:21:11:MET:HB3	1.65	0.45
30:21:181:LEU:HA	30:21:181:LEU:HD13	1.61	0.45
32:41:16:ARG:HH21	32:41:31:VAL:HG21	1.81	0.45
32:41:17:PRO:HA	32:41:20:ILE:HD12	1.98	0.45
32:41:38:VAL:HB	32:41:158:ALA:HB3	1.97	0.45
35:58:96:GLU:HG2	35:58:97:ARG:N	2.32	0.45
41:B8:7:ILE:O	41:B8:10:VAL:N	2.49	0.45
50:K8:18:PRO:O	50:K8:21:LEU:HB2	2.16	0.45
1:1G:631:G:H1'	1:1G:632:A:C8	2.52	0.45
1:1G:983:A:O2'	1:1G:1050:G:OP2	2.28	0.45
1:1G:1243:C:O2	1:1G:1295:G:N2	2.49	0.45
1:1G:1322:C:O2'	1:1G:1323:G:H5'	2.15	0.45
2:12:100:GLY:HA2	2:12:103:THR:OG1	2.17	0.45
2:12:127:ILE:HG12	2:12:135:GLN:NE2	2.32	0.45
5:42:69:VAL:O	5:42:71:LEU:N	2.50	0.45
11:2A:50:TYR:HD2	11:2A:54:ARG:HB3	1.81	0.45
19:AA:41:VAL:HG23	19:AA:43:GLU:H	1.81	0.45
24:3L:56:C:H2'	24:3L:57:G:C8	2.52	0.45
26:14:270(E):G:C2	26:14:270(V):G:C2	3.05	0.45
26:14:510:C:H2'	26:14:511:U:O4'	2.17	0.45
26:14:764:A:N1	26:14:1789:A:O2'	2.48	0.45
26:14:995:C:OP2	42:85:54:LYS:NZ	2.45	0.45
26:14:1338:G:N3	26:14:1393:A:H2	2.13	0.45
26:14:1728:G:O6	26:14:1730:U:H5'	2.16	0.45
26:14:2155:G:H2'	26:14:2156:G:O4'	2.17	0.45
26:14:2557:G:H2'	26:14:2558:C:C6	2.51	0.45
27:1J:114:G:O2'	40:65:50:SER:OG	2.34	0.45
29:19:132:PRO:HG3	29:19:190:TYR:CE1	2.52	0.45
29:19:143:HIS:NE2	29:19:192:THR:OG1	2.49	0.45
32:49:147:ASP:C	32:49:149:VAL:HG22	2.41	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:25:7:TYR:CZ	36:25:44:LYS:HG3	2.51	0.45
43:95:5:VAL:HA	43:95:37:VAL:HB	1.99	0.45
50:G5:46:GLN:OE1	50:G5:46:GLN:HA	2.17	0.45
1:13:627:G:H2'	1:13:628:G:H8	1.82	0.45
1:13:642:A:N3	8:7E:113:SER:OG	2.35	0.45
1:13:720:C:OP2	1:13:721:G:O2'	2.30	0.45
1:13:725:G:C2	1:13:726:C:C6	3.05	0.45
1:13:1142:G:H3'	1:13:1143:G:H8	1.82	0.45
1:13:1305:G:H8	1:13:1305:G:OP2	1.99	0.45
4:3E:111:ALA:HB1	4:3E:116:GLN:HB3	1.99	0.45
4:3E:151:LYS:HE2	4:3E:151:LYS:HB3	1.80	0.45
5:4E:6:PHE:CD1	5:4E:36:ASP:HB3	2.51	0.45
10:1I:64:GLU:OE1	14:5I:59:ALA:CA	2.64	0.45
13:4I:49:THR:HG22	13:4I:51:ALA:N	2.26	0.45
26:1H:649:G:C6	26:1H:650:C:C4	3.05	0.45
26:1H:657:U:H2'	26:1H:658:C:C6	2.51	0.45
26:1H:805:G:H4'	26:1H:806:C:OP2	2.17	0.45
26:1H:1287:A:C5	26:1H:1288:U:C4	3.05	0.45
26:1H:1392:A:C6	26:1H:1393:A:C6	3.05	0.45
26:1H:1416:G:O2'	26:1H:1417:C:O5'	2.34	0.45
26:1H:1845:G:OP1	29:11:258:LYS:NZ	2.37	0.45
26:1H:2450:A:C2	26:1H:2451:A:C4	3.05	0.45
26:1H:2505:G:O2'	26:1H:2506:U:H5'	2.17	0.45
26:1H:2735:G:H2'	26:1H:2736:G:C8	2.51	0.45
26:1H:2854:G:H2'	26:1H:2855:C:C6	2.52	0.45
26:1H:2881:C:O3'	39:98:96:ARG:HG3	2.16	0.45
28:71:214:VAL:HB	28:71:224:ILE:HG21	1.99	0.45
32:41:67:LYS:CD	32:41:67:LYS:N	2.76	0.45
47:H8:44:PHE:CD1	47:H8:44:PHE:C	2.95	0.45
1:1G:619:U:O2	4:32:135:LEU:HD22	2.16	0.45
1:1G:947:G:H2'	1:1G:948:C:C6	2.52	0.45
1:1G:1028(A):C:N4	1:1G:1028(B):C:H41	2.15	0.45
1:1G:1086:U:H2'	1:1G:1087:G:H8	1.81	0.45
1:1G:1327:C:H2'	1:1G:1328:C:C6	2.51	0.45
2:12:140:HIS:HA	2:12:143:GLU:CD	2.42	0.45
5:42:43:LEU:HD11	5:42:132:ALA:HB1	1.97	0.45
5:42:110:LEU:HD23	5:42:110:LEU:HA	1.84	0.45
6:52:44:GLY:HA2	6:52:59:TYR:CZ	2.51	0.45
12:3A:41:ARG:HG2	12:3A:42:THR:N	2.30	0.45
26:14:1430:C:H2'	26:14:1431:U:H6	1.79	0.45
26:14:2335:A:C8	26:14:2337:G:C5	3.04	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2443:C:H2'	26:14:2444:G:C8	2.48	0.45
27:1J:5:C:O2'	27:1J:27:C:O2	2.34	0.45
28:79:15:ASP:HB3	28:79:20:TYR:HH	1.82	0.45
28:79:46:LYS:O	28:79:210:ARG:N	2.40	0.45
29:19:121:PRO:HB3	29:19:135:PHE:CD2	2.51	0.45
31:39:178:PRO:HG2	31:39:179:GLU:OE1	2.16	0.45
32:49:36:LYS:O	32:49:160:VAL:HG23	2.17	0.45
41:75:16:ARG:HB2	41:75:79:HIS:CD2	2.51	0.45
47:D5:4:ARG:HB3	47:D5:58:VAL:HB	1.99	0.45
47:D5:94:GLU:H	47:D5:130:PRO:HD2	1.80	0.45
54:L5:12:ARG:NH2	54:L5:44:PRO:HB3	2.31	0.45
1:13:119:A:N7	1:13:288:A:C2	2.85	0.45
1:13:303:A:C5	1:13:304:U:C5	3.05	0.45
1:13:468:A:O2'	16:7I:82:GLN:HG2	2.15	0.45
1:13:1124:G:H3'	1:13:1145:C:N4	2.32	0.45
2:1E:124:SER:HB3	2:1E:125:PRO:HD2	1.99	0.45
6:5E:81:ILE:HD11	29:11:125:ILE:HB	1.98	0.45
8:7E:37:ARG:HH21	8:7E:41:ARG:HH11	1.64	0.45
9:8E:11:LYS:O	9:8E:13:ALA:N	2.49	0.45
12:3I:86:ARG:HG3	12:3I:101:VAL:HG22	1.97	0.45
14:5I:29:ARG:HD3	14:5I:31:ARG:O	2.17	0.45
24:3K:55:U:N3	24:3K:58:A:C8	2.83	0.45
26:1H:118:A:OP2	26:1H:119:A:H2'	2.16	0.45
26:1H:270(K):C:O2'	26:1H:270(N):G:N2	2.39	0.45
26:1H:270(P):C:H2'	26:1H:270(Q):C:C6	2.52	0.45
26:1H:386:G:H4'	26:1H:387:U:OP2	2.16	0.45
26:1H:1047:G:H2'	26:1H:1110:G:N7	2.32	0.45
26:1H:1344:G:H4'	26:1H:1384:A:C5	2.52	0.45
26:1H:1348:G:H5''	26:1H:1349:A:OP2	2.17	0.45
26:1H:2205:C:H2'	26:1H:2206:C:H6	1.82	0.45
28:71:47:LEU:HB2	28:71:169:GLY:O	2.17	0.45
30:21:59:VAL:O	30:21:60:ASN:CG	2.59	0.45
34:61:29:TYR:O	34:61:32:PRO:HD2	2.16	0.45
42:C8:79:PHE:CD1	42:C8:79:PHE:C	2.95	0.45
47:H8:44:PHE:HE2	47:H8:86:VAL:HG11	1.82	0.45
48:I8:26:TYR:O	48:I8:67:VAL:HG13	2.17	0.45
54:P8:35:ARG:O	54:P8:38:GLY:N	2.36	0.45
1:1G:507:C:H3'	1:1G:508:C:H2'	1.99	0.45
1:1G:614:A:N6	1:1G:626:U:H3	2.08	0.45
1:1G:707:C:H2'	1:1G:708:C:C6	2.51	0.45
1:1G:1053:G:N7	1:1G:1199:U:H3'	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1152:A:OP1	10:1A:68:HIS:NE2	2.50	0.45
1:1G:1178:G:OP2	9:82:93:ARG:NH2	2.50	0.45
1:1G:1343:G:C5	1:1G:1344:C:C4	3.04	0.45
3:22:21:ARG:O	3:22:58:GLU:HA	2.17	0.45
3:22:134:ILE:HG23	3:22:151:VAL:HB	1.98	0.45
8:72:29:SER:O	8:72:32:LYS:HB2	2.17	0.45
9:82:34:ASN:O	9:82:38:GLN:HB3	2.17	0.45
10:1A:50:ILE:HG22	10:1A:52:GLY:H	1.82	0.45
19:AA:9:VAL:HG13	19:AA:10:PHE:N	2.31	0.45
22:1L:9:A:H2'	22:1L:9:A:N3	2.31	0.45
26:14:142:G:H2'	26:14:143:C:C6	2.52	0.45
26:14:951:C:O2'	26:14:952:G:H5'	2.16	0.45
26:14:1774:C:O5'	26:14:1774:C:H6	1.99	0.45
26:14:2290:G:H2'	26:14:2291:U:O4'	2.17	0.45
30:29:201:THR:HG22	30:29:202:LYS:N	2.32	0.45
32:49:15:VAL:HG13	32:49:175:LEU:HB2	1.99	0.45
34:69:116:LEU:HD11	34:69:120:ILE:HG13	1.99	0.45
36:25:22:ILE:HA	36:25:22:ILE:HD13	1.58	0.45
36:25:111:PHE:N	36:25:111:PHE:CD1	2.84	0.45
40:65:69:VAL:HG13	40:65:101:LEU:HD13	1.98	0.45
40:65:107:GLU:H	40:65:110:LEU:HD11	1.82	0.45
46:C5:52:SER:O	46:C5:52:SER:OG	2.26	0.45
49:F5:56:GLN:NE2	49:F5:83:GLU:HA	2.32	0.45
49:F5:82:LEU:CG	49:F5:83:GLU:H	2.28	0.45
1:13:16:A:O2'	1:13:17:U:H5'	2.17	0.45
1:13:486:U:H2'	1:13:487:A:H8	1.81	0.45
1:13:782:A:H62	1:13:800:G:H21	1.64	0.45
1:13:947:G:H2'	1:13:948:C:O4'	2.16	0.45
5:4E:13:ILE:HA	5:4E:13:ILE:HD13	1.72	0.45
20:BI:100:ILE:HG12	20:BI:101:GLY:N	2.31	0.45
23:2K:29:C:H2'	23:2K:30:G:H8	1.81	0.45
26:1H:844:C:H3'	26:1H:845:G:C8	2.52	0.45
26:1H:929:G:O6	60:1H:3517:HOH:O	2.21	0.45
26:1H:2097:C:H2'	26:1H:2098:U:O4'	2.16	0.45
30:21:18:ASP:HA	41:B8:82:LEU:HD11	1.98	0.45
31:31:126:VAL:O	31:31:195:ASP:HA	2.17	0.45
32:41:145:THR:HG23	52:M8:28:LYS:NZ	2.32	0.45
33:51:153:LYS:HB3	33:51:153:LYS:HE2	1.86	0.45
34:61:68:LEU:HA	34:61:71:ILE:CG2	2.46	0.45
35:58:96:GLU:C	35:58:98:VAL:N	2.68	0.45
42:C8:28:ARG:HD3	42:C8:38:THR:OG1	2.17	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:70:LEU:HD11	47:H8:98:MET:HE3	1.99	0.45
47:H8:105:VAL:O	47:H8:140:ASP:HA	2.17	0.45
53:N8:20:ARG:HA	53:N8:23:HIS:CE1	2.50	0.45
1:1G:38:G:C2	1:1G:397:A:C2	3.05	0.45
1:1G:620:C:N3	4:32:135:LEU:CD1	2.79	0.45
1:1G:730:G:C5	1:1G:731:G:H1'	2.51	0.45
1:1G:1377:A:H2'	7:62:7:ALA:HB3	1.99	0.45
1:1G:1430:C:H2'	1:1G:1431:C:C6	2.52	0.45
3:22:43:LEU:HA	3:22:46:GLU:HG2	1.99	0.45
7:62:132:GLY:H	7:62:135:VAL:HB	1.81	0.45
11:2A:14:VAL:HG12	11:2A:15:ALA:N	2.25	0.45
13:4A:81:LEU:HA	13:4A:81:LEU:HD13	1.50	0.45
26:14:7:G:H2'	26:14:8:A:C8	2.51	0.45
26:14:139:G:N2	26:14:141:A:N1	2.63	0.45
26:14:587:C:H4'	26:14:588:U:C6	2.52	0.45
26:14:674:G:O2'	31:39:74:ARG:HD3	2.16	0.45
26:14:848:G:C4	26:14:933:A:C8	3.04	0.45
26:14:910:A:C6	26:14:911:A:C6	3.05	0.45
26:14:1138:G:C4	26:14:1139:G:H1'	2.51	0.45
26:14:1159:U:OP1	51:H5:30:ARG:NH1	2.50	0.45
26:14:1169:G:H1	26:14:1180:C:N4	2.15	0.45
26:14:1312:U:O5'	45:B5:63:LYS:HE3	2.17	0.45
26:14:1412:A:H2'	26:14:1413:G:C8	2.52	0.45
26:14:1730:U:H5''	26:14:1731:G:N2	2.27	0.45
26:14:2845:G:N2	26:14:2871:C:O2	2.36	0.45
26:14:2864:G:OP1	41:75:119:LYS:HD2	2.17	0.45
28:79:15:ASP:HB3	28:79:20:TYR:OH	2.17	0.45
37:35:80:TYR:HA	37:35:111:ARG:O	2.17	0.45
40:65:99:LYS:HE2	40:65:103:GLU:OE2	2.16	0.45
40:65:102:ALA:O	40:65:105:ALA:N	2.50	0.45
49:F5:91:LYS:HB2	49:F5:91:LYS:HE2	1.78	0.45
49:F5:92:LYS:O	49:F5:93:GLU:C	2.59	0.45
54:L5:8:ASN:OD1	54:L5:11:LYS:N	2.29	0.45
1:13:8:A:H62	4:3E:208:SER:HB3	1.82	0.45
1:13:130:A:C8	17:8I:63:ARG:HD3	2.51	0.45
1:13:300:A:H1'	1:13:565:U:O2	2.16	0.45
1:13:942:G:C2	1:13:943:U:C6	3.04	0.45
2:1E:185:ILE:CG2	2:1E:199:TYR:HB2	2.45	0.45
6:5E:45:LEU:HA	6:5E:45:LEU:HD12	1.73	0.45
12:3I:8:ASN:O	12:3I:11:VAL:N	2.49	0.45
26:1H:443:A:H3'	31:31:45:ARG:NH2	2.32	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:486:C:H4'	44:E8:60:ASN:OD1	2.17	0.45
26:1H:577:G:OP1	26:1H:2502:G:O2'	2.28	0.45
26:1H:654(S):G:O2'	26:1H:654(T):A:OP2	2.31	0.45
26:1H:1826:G:O2'	29:11:242:ARG:NH2	2.50	0.45
29:11:30:GLU:HG3	29:11:63:ARG:NH2	2.31	0.45
30:21:2:LYS:HA	30:21:84:PHE:CD1	2.52	0.45
31:31:66:PRO:O	31:31:67:GLN:CB	2.58	0.45
31:31:164:ARG:NH1	31:31:164:ARG:HG2	2.32	0.45
33:51:137:ASP:HB2	33:51:140:LYS:HE2	1.98	0.45
35:58:39:ARG:NH2	35:58:41:ASP:OD2	2.50	0.45
37:78:113:LYS:HA	37:78:129:ALA:O	2.17	0.45
45:F8:18:TYR:O	45:F8:20:GLY:N	2.50	0.45
50:K8:32:LEU:HD11	50:K8:54:LYS:HG3	1.98	0.45
1:1G:407:G:O2'	4:32:116:GLN:HG3	2.17	0.45
1:1G:451:A:N6	1:1G:480:U:H2'	2.32	0.45
1:1G:1240:U:OP2	7:62:116:ALA:N	2.50	0.45
1:1G:1347:G:C6	9:82:107:ARG:NH2	2.85	0.45
2:12:101:MET:HE2	2:12:108:ILE:HG12	1.99	0.45
3:22:88:ARG:O	3:22:91:LEU:HD13	2.16	0.45
4:32:32:ALA:CA	4:32:35:ARG:HB3	2.47	0.45
4:32:107:ARG:HD3	4:32:173:TRP:CH2	2.52	0.45
8:72:111:ILE:HD12	8:72:135:CYS:SG	2.57	0.45
22:1L:39:PSU:H2'	22:1L:40:C:C6	2.52	0.45
26:14:330:A:H2	26:14:1210:A:O2'	2.00	0.45
26:14:446:G:OP2	60:14:3426:HOH:O	2.21	0.45
26:14:675:A:H4'	31:39:67:GLN:OE1	2.17	0.45
26:14:1226:G:H5'	43:95:85:LYS:HA	1.99	0.45
26:14:1229:G:N2	26:14:1229(A):G:H1'	2.31	0.45
26:14:1449(A):G:H2'	26:14:1450:C:C6	2.51	0.45
26:14:1515:C:H2'	26:14:1516:U:H6	1.80	0.45
26:14:1709:U:H2'	26:14:1710:C:C6	2.51	0.45
26:14:1907:G:C6	26:14:1908:C:C4	3.05	0.45
26:14:1954:G:C2	26:14:2551:C:H5''	2.52	0.45
26:14:2053:G:C2	26:14:2617:C:C2	3.05	0.45
26:14:2859:G:C8	26:14:2859:G:H3'	2.52	0.45
29:19:44:ASN:HB3	29:19:46:GLN:N	2.31	0.45
30:29:18:ASP:HB3	41:75:82:LEU:HD11	1.99	0.45
32:49:39:ILE:HD11	32:49:102:PHE:CE2	2.51	0.45
32:49:49:ASP:HB3	32:49:52:ILE:HG22	1.99	0.45
32:49:76:SER:OG	32:49:82:LEU:O	2.35	0.45
34:69:37:VAL:HG12	34:69:38:LEU:HD12	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:35:15:ARG:HB2	37:35:15:ARG:CZ	2.47	0.45
38:45:77:LYS:HE2	38:45:77:LYS:HB3	1.80	0.45
40:65:61:ASN:CG	40:65:62:LYS:H	2.25	0.45
43:95:71:LEU:HA	43:95:71:LEU:HD13	1.50	0.45
1:13:418:C:H2'	1:13:419:C:C6	2.52	0.45
1:13:681:C:H2'	1:13:682:G:H8	1.82	0.45
1:13:767:A:H3'	60:13:1802:HOH:O	2.17	0.45
1:13:843:U:H5''	1:13:848:C:H5	1.81	0.45
1:13:1118:C:H1'	1:13:1179:A:C5	2.52	0.45
1:13:1137:C:H1'	1:13:1138:G:C2	2.52	0.45
1:13:1260:C:H3'	1:13:1260:C:H6	1.82	0.45
1:13:1277:C:H2'	1:13:1279:A:H8	1.82	0.45
2:1E:8:LYS:CG	2:1E:9:GLU:N	2.79	0.45
6:5E:12:PRO:HG3	6:5E:57:GLN:HG3	1.99	0.45
6:5E:75:LEU:HD13	6:5E:79:LEU:HD11	1.99	0.45
7:6E:88:PRO:HB3	7:6E:145:ALA:HB1	1.98	0.45
9:8E:115:GLY:HA2	10:1I:58:ASP:OD2	2.17	0.45
11:2I:21:ILE:HD12	11:2I:84:VAL:HG12	1.98	0.45
23:2K:17:C:H3'	23:2K:18:C:H2'	1.99	0.45
26:1H:217:G:OP2	60:1H:3559:HOH:O	2.21	0.45
26:1H:311:A:C6	26:1H:328:U:C4	3.05	0.45
26:1H:349:G:H2'	26:1H:350:U:O4'	2.17	0.45
26:1H:442:G:C4	26:1H:444:C:C5	3.05	0.45
26:1H:654(A):A:H2'	26:1H:654(B):C:H6	1.82	0.45
26:1H:674:G:HO2'	31:31:67:GLN:HE22	1.63	0.45
26:1H:796:C:H2'	26:1H:797:C:C6	2.52	0.45
26:1H:880:G:N3	26:1H:881:G:N7	2.65	0.45
26:1H:1207:C:H2'	26:1H:1208:C:C6	2.51	0.45
26:1H:1346:G:C4	26:1H:1347:G:N7	2.85	0.45
26:1H:1412:A:H2'	26:1H:1413:G:H8	1.77	0.45
26:1H:1494:A:H2'	26:1H:1495:A:C8	2.52	0.45
26:1H:2324:C:H5''	26:1H:2325:G:H5'	1.98	0.45
26:1H:2392:A:H2'	26:1H:2393:A:O4'	2.17	0.45
26:1H:2841:C:H42	26:1H:2876:G:H1	1.65	0.45
29:11:6:PHE:CE1	29:11:18:VAL:HG23	2.52	0.45
38:88:139:GLU:OE2	38:88:141:GLN:HG2	2.16	0.45
39:98:32:GLY:HA2	39:98:116:LEU:CD1	2.47	0.45
1:1G:437:U:H1'	4:32:119:GLN:HE22	1.82	0.45
1:1G:1008:C:H1'	1:1G:1022:G:N2	2.32	0.45
1:1G:1125:U:H2'	1:1G:1126:U:H5	1.80	0.45
1:1G:1277:C:H1'	1:1G:1282:C:H1'	1.99	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:95:GLN:HB3	2:12:148:TYR:HD1	1.81	0.45
3:22:199:LYS:HB3	3:22:201:TYR:HE1	1.82	0.45
5:42:19:MET:HE3	5:42:23:GLY:HA2	1.99	0.45
7:62:69:VAL:HG22	7:62:135:VAL:HG22	1.98	0.45
9:82:26:VAL:HG13	9:82:61:ALA:O	2.17	0.45
19:AA:9:VAL:HG22	19:AA:10:PHE:H	1.81	0.45
23:2L:53:G:H2'	23:2L:54:G:H8	1.82	0.45
26:14:174:C:OP2	26:14:174:C:H6	2.00	0.45
26:14:498:G:H21	46:C5:47:LYS:HZ2	1.65	0.45
26:14:565:C:H2'	26:14:566:U:O4'	2.17	0.45
26:14:909:A:C6	26:14:912:C:C2	3.05	0.45
26:14:2050:C:H2'	26:14:2051:A:O4'	2.17	0.45
26:14:2472:G:H1	26:14:2477:C:P	2.40	0.45
26:14:2759:G:H21	33:59:143:GLN:HE22	1.65	0.45
26:14:2849:U:H4'	26:14:2868:A:C2	2.52	0.45
27:1J:10:C:C4	27:1J:11:C:C5	3.05	0.45
29:19:228:PRO:HD3	29:19:234:GLY:C	2.41	0.45
30:29:80:GLU:O	30:29:81:ILE:C	2.60	0.45
32:49:10:LYS:NZ	32:49:175:LEU:O	2.49	0.45
34:69:72:LEU:HD21	34:69:107:VAL:HG21	1.97	0.45
38:45:3:MET:HG3	38:45:4:PRO:O	2.16	0.45
39:55:8:ARG:HH11	39:55:39:PRO:HB3	1.82	0.45
40:65:23:ARG:NH2	40:65:84:GLN:OE1	2.49	0.45
42:85:91:ASP:CG	42:85:96:ALA:HB2	2.41	0.45
45:B5:67:GLY:C	45:B5:69:TYR:N	2.74	0.45
47:D5:124:ILE:HD11	47:D5:165:VAL:HG11	1.99	0.45
47:D5:126:VAL:HG12	47:D5:163:LEU:HA	1.98	0.45
49:F5:62:VAL:HB	49:F5:67:ILE:HD13	1.99	0.45
1:13:115:G:C2	1:13:289:G:N7	2.85	0.44
1:13:323:U:H2'	1:13:324:G:O4'	2.17	0.44
1:13:608:A:H2'	1:13:609:A:O4'	2.17	0.44
1:13:843:U:OP1	1:13:848:C:N4	2.50	0.44
1:13:971:G:N2	1:13:1363:A:OP2	2.42	0.44
1:13:1144:G:H21	1:13:1146:A:H62	1.65	0.44
1:13:1397:C:OP2	5:4E:24:ARG:NH2	2.50	0.44
1:13:1435:G:H2'	1:13:1436:U:C6	2.52	0.44
1:13:1528:U:C2	1:13:1530:G:C8	3.05	0.44
2:1E:127:ILE:HD11	2:1E:139:LYS:NZ	2.32	0.44
3:2E:12:LEU:HD23	3:2E:12:LEU:HA	1.80	0.44
5:4E:53:LEU:H	5:4E:53:LEU:HD12	1.82	0.44
10:1I:27:ALA:HB1	10:1I:34:VAL:HG11	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1I:57:LYS:O	10:1I:60:ARG:NH2	2.51	0.44
10:1I:81:THR:HA	10:1I:84:GLN:HB3	2.00	0.44
17:8I:86:GLU:O	17:8I:90:ILE:HG12	2.17	0.44
26:1H:70:G:H21	26:1H:71:A:N6	2.15	0.44
26:1H:140:A:H8	26:1H:1408:C:O2'	2.00	0.44
26:1H:638:G:C5	26:1H:651:G:C2	3.05	0.44
26:1H:1696:G:C6	26:1H:1697:G:C5	3.05	0.44
26:1H:1826:G:H4'	29:11:242:ARG:HE	1.82	0.44
26:1H:2679:A:H4'	30:21:165:VAL:HG11	1.99	0.44
27:16:15:A:H1'	27:16:109:G:N9	2.32	0.44
27:16:40:U:H1'	27:16:45:A:N6	2.32	0.44
28:71:7:TYR:CE1	28:71:220:PRO:HB3	2.52	0.44
29:11:223:GLY:HA3	29:11:231:HIS:CE1	2.52	0.44
30:21:69:LYS:HD2	30:21:89:ASP:OD2	2.17	0.44
35:58:62:VAL:HG22	35:58:63:THR:H	1.82	0.44
36:68:50:GLY:N	36:68:53:LYS:NZ	2.64	0.44
38:88:43:THR:HA	38:88:94:VAL:HG12	1.99	0.44
39:98:46:GLY:HA2	39:98:49:ASP:HB2	1.98	0.44
40:A8:34:HIS:CE1	40:A8:54:LEU:HD23	2.53	0.44
48:I8:12:ASN:HA	48:I8:14:ARG:HH21	1.82	0.44
49:J8:78:LYS:N	49:J8:78:LYS:CD	2.80	0.44
50:K8:4:SER:HB2	50:K8:7:ARG:H	1.76	0.44
1:1G:35:G:C2	1:1G:550:G:N3	2.86	0.44
1:1G:186(F):C:H2'	1:1G:187:C:O4'	2.17	0.44
1:1G:464:G:O6	1:1G:466:C:H4'	2.17	0.44
1:1G:1027:C:O2'	1:1G:1034:G:N2	2.50	0.44
4:32:108:LEU:HA	4:32:174:LEU:HD13	2.00	0.44
4:32:132:ARG:HE	4:32:132:ARG:HB3	1.60	0.44
5:42:107:ARG:NH2	5:42:108:ALA:HB2	2.32	0.44
14:5A:3:ARG:HA	14:5A:4:LYS:HA	1.68	0.44
23:2L:20:G:N2	32:49:78:SER:OG	2.50	0.44
23:2L:48:U:H1'	23:2L:49:C:OP2	2.17	0.44
26:14:249:C:H4'	26:14:250:G:O5'	2.17	0.44
26:14:250:G:OP1	37:35:60:MET:HE1	2.18	0.44
26:14:843:G:H1	26:14:935:C:N4	2.03	0.44
26:14:878:A:C6	26:14:899:A:H2	2.35	0.44
26:14:1170:G:C2'	26:14:1171:G:H5'	2.47	0.44
26:14:1278:A:H2'	26:14:1279:G:C8	2.52	0.44
26:14:1301:A:C8	26:14:1303:G:C8	3.04	0.44
26:14:1332:G:N2	26:14:1610:A:H8	2.14	0.44
26:14:1370:C:N4	26:14:1371:G:C6	2.85	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1424:G:H2'	26:14:1425:G:C8	2.51	0.44
26:14:2379:G:O2'	40:65:17:ARG:NH1	2.50	0.44
26:14:2465:C:O2	26:14:2486:G:C2	2.70	0.44
26:14:2818:G:OP2	39:55:42:LYS:NZ	2.50	0.44
27:1J:116:G:C5'	40:65:55:ALA:HB2	2.47	0.44
31:39:29:ASN:OD1	31:39:112:MET:HE1	2.17	0.44
34:69:128:LEU:O	34:69:138:ILE:N	2.49	0.44
34:69:131:LYS:HA	34:69:135:GLU:OE1	2.16	0.44
46:C5:39:VAL:O	46:C5:40:GLU:HB2	2.17	0.44
46:C5:84:ARG:HD3	46:C5:84:ARG:C	2.42	0.44
1:13:145:G:H8	1:13:145:G:OP2	1.99	0.44
1:13:536:C:H2'	1:13:537:G:C8	2.52	0.44
1:13:574:A:N3	1:13:883:C:H1'	2.31	0.44
1:13:582:U:H2'	1:13:583:A:C8	2.52	0.44
1:13:682:G:H2'	1:13:683:G:C8	2.50	0.44
1:13:1074:G:N3	1:13:1102:A:C2	2.86	0.44
1:13:1178:G:N2	1:13:1181:G:C8	2.86	0.44
1:13:1277:C:H2'	1:13:1279:A:C8	2.53	0.44
1:13:1412:C:H2'	1:13:1413:A:C8	2.52	0.44
3:2E:180:ALA:HB1	3:2E:182:ILE:HG13	1.98	0.44
4:3E:122:ARG:NH2	4:3E:134:ASP:CG	2.75	0.44
9:8E:108:VAL:HG12	9:8E:109:VAL:H	1.82	0.44
12:3I:55:VAL:HG12	12:3I:69:TYR:HA	1.98	0.44
20:BI:49:ALA:HB3	20:BI:99:LEU:HB2	2.00	0.44
26:1H:14:A:H5''	26:1H:15:G:OP2	2.17	0.44
26:1H:142:G:H1'	45:F8:37:THR:CG2	2.44	0.44
26:1H:280:C:N3	26:1H:361:G:C2	2.85	0.44
26:1H:459:U:H4'	54:P8:40:TRP:CZ3	2.53	0.44
26:1H:482:A:H5''	26:1H:483:A:OP1	2.17	0.44
26:1H:1561:G:H2'	26:1H:1562:A:C8	2.52	0.44
26:1H:1668:A:H4'	26:1H:1669:A:O5'	2.17	0.44
26:1H:2286:A:H4'	26:1H:2287:A:O4'	2.17	0.44
26:1H:2831:G:O4'	26:1H:2883:A:C2	2.70	0.44
26:1H:2837:G:H21	39:98:45:ARG:NH2	2.15	0.44
30:21:131:ALA:CB	30:21:135:HIS:HE1	2.30	0.44
31:31:40:GLN:NE2	31:31:184:TYR:HB3	2.33	0.44
32:41:59:GLU:HG2	32:41:148:MET:HE2	1.98	0.44
32:41:107:LEU:HD11	32:41:178:PHE:CE1	2.51	0.44
35:58:4:TYR:CE2	42:C8:100:VAL:HG11	2.52	0.44
35:58:94:HIS:C	35:58:95:PRO:O	2.58	0.44
44:E8:11:ARG:CZ	44:E8:98:LYS:HB3	2.47	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:F8:29:TRP:CZ3	45:F8:78:LYS:HD3	2.52	0.44
1:1G:325:A:H2'	1:1G:326:G:O4'	2.16	0.44
1:1G:428:G:C5	1:1G:430:A:C6	3.05	0.44
1:1G:437:U:C2'	1:1G:438:G:H5'	2.46	0.44
1:1G:1032(A):G:H2'	1:1G:1032(B):G:C8	2.52	0.44
1:1G:1101:A:H4'	1:1G:1102:A:O5'	2.17	0.44
1:1G:1126:U:H4'	1:1G:1127:G:C8	2.52	0.44
1:1G:1385:G:C2	1:1G:1386:G:C8	3.05	0.44
2:12:136:VAL:HG13	2:12:139:LYS:HE2	1.99	0.44
2:12:137:ARG:HG3	2:12:138:LEU:N	2.32	0.44
4:32:108:LEU:HD22	4:32:174:LEU:HD22	1.99	0.44
5:42:12:LEU:HD11	5:42:14:ARG:HB3	1.98	0.44
5:42:24:ARG:NH2	25:4L:23:A:C8	2.84	0.44
8:72:11:THR:HG23	8:72:14:ARG:HH12	1.83	0.44
8:72:51:VAL:HG12	8:72:52:ASP:N	2.31	0.44
9:82:69:GLY:O	9:82:73:GLN:N	2.45	0.44
12:3A:85:ILE:HD12	12:3A:85:ILE:HA	1.77	0.44
17:8A:86:GLU:OE1	17:8A:90:ILE:HD11	2.17	0.44
19:AA:11:VAL:HG21	19:AA:41:VAL:CG1	2.47	0.44
26:14:1568:G:P	29:19:63:ARG:HH22	2.41	0.44
26:14:2147:G:H2'	26:14:2148:G:C4'	2.46	0.44
26:14:2292:C:H2'	26:14:2293:C:H6	1.82	0.44
26:14:2392:A:OP2	55:M5:31:HIS:NE2	2.39	0.44
27:1J:56:G:H4'	27:1J:57:A:C8	2.51	0.44
29:19:176:ARG:HA	29:19:181:GLU:O	2.17	0.44
33:59:55:PRO:O	33:59:56:SER:HB2	2.17	0.44
34:69:66:GLU:HA	34:69:69:LYS:HB3	2.00	0.44
36:25:34:THR:HG22	36:25:37:ASP:OD2	2.17	0.44
37:35:36:LYS:HB2	37:35:36:LYS:HZ3	1.82	0.44
38:45:29:PHE:HD2	38:45:65:PHE:CE1	2.35	0.44
38:45:32:TYR:CE1	38:45:133:ARG:HG3	2.50	0.44
38:45:51:ARG:NH1	38:45:55:VAL:HG21	2.33	0.44
40:65:106:ARG:O	40:65:106:ARG:HD2	2.16	0.44
49:F5:91:LYS:HZ3	49:F5:95:LEU:HD22	1.82	0.44
50:G5:43:GLN:CD	50:G5:43:GLN:N	2.75	0.44
1:13:148:G:H2'	1:13:149:A:C8	2.53	0.44
1:13:200:G:H2'	1:13:201:C:C6	2.52	0.44
1:13:292:G:N7	1:13:293:G:H1'	2.33	0.44
1:13:521:G:OP2	12:3I:54:LYS:NZ	2.48	0.44
1:13:558:G:C4	1:13:559:A:C2	3.05	0.44
1:13:604:G:H2'	1:13:605:U:O4'	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:24:TRP:N	2:1E:24:TRP:CD1	2.84	0.44
2:1E:163:PHE:HA	2:1E:185:ILE:O	2.17	0.44
4:3E:86:LYS:HE2	4:3E:86:LYS:HB2	1.52	0.44
4:3E:108:LEU:CD1	4:3E:174:LEU:HD13	2.48	0.44
6:5E:5:GLU:HB3	6:5E:62:TRP:NE1	2.33	0.44
13:4I:66:LEU:C	13:4I:70:LEU:HB2	2.42	0.44
13:4I:90:LEU:HD22	19:AI:78:ARG:NH2	2.32	0.44
15:6I:53:HIS:NE2	15:6I:57:LEU:HD11	2.31	0.44
25:4K:17:U:H4'	60:4K:201:HOH:O	2.17	0.44
26:1H:30:G:H2'	26:1H:31:C:C6	2.52	0.44
26:1H:46:C:H2'	26:1H:47:C:C6	2.52	0.44
26:1H:197:A:N6	26:1H:2430:A:H2'	2.32	0.44
26:1H:270(A):A:N3	26:1H:365:C:O2'	2.41	0.44
26:1H:272:G:H2'	26:1H:273:G:O4'	2.17	0.44
26:1H:363:G:O2'	26:1H:363(A):A:H5'	2.17	0.44
26:1H:543:C:N4	26:1H:550:G:H1	2.13	0.44
26:1H:589:C:H2'	26:1H:590:A:H8	1.79	0.44
26:1H:1145:C:H2'	26:1H:1146:C:H6	1.82	0.44
26:1H:1416:G:O2'	26:1H:1417:C:P	2.75	0.44
26:1H:1931:U:O2	26:1H:1931:U:O4'	2.36	0.44
26:1H:2638:G:P	30:21:82:ARG:HH21	2.40	0.44
26:1H:2720:U:O2	26:1H:2720:U:H2'	2.17	0.44
28:71:68:LEU:O	28:71:176:GLY:HA3	2.16	0.44
29:11:145:VAL:HG12	29:11:146:GLU:O	2.17	0.44
29:11:204:ILE:HD12	29:11:204:ILE:O	2.17	0.44
30:21:119:ARG:HD3	30:21:160:TYR:HB2	1.99	0.44
33:51:113:VAL:HG11	33:51:151:ILE:HD13	2.00	0.44
34:61:29:TYR:C	34:61:32:PRO:HD2	2.42	0.44
34:61:92:VAL:HG13	34:61:120:ILE:CG2	2.47	0.44
35:58:27:ALA:O	35:58:28:THR:C	2.60	0.44
37:78:79:ARG:HB2	37:78:110:TYR:CD1	2.52	0.44
43:D8:38:LEU:O	43:D8:51:VAL:HG23	2.17	0.44
44:E8:92:ARG:NH1	44:E8:94:ASP:CG	2.53	0.44
47:H8:15:PRO:O	47:H8:19:ARG:HB2	2.18	0.44
1:1G:450:G:H4'	16:7A:41:PRO:HB2	1.98	0.44
1:1G:1145:C:H4'	1:1G:1146:A:O5'	2.17	0.44
1:1G:1194:U:H2'	1:1G:1195:C:C6	2.52	0.44
2:12:84:GLU:OE1	2:12:84:GLU:N	2.50	0.44
3:22:63:ASN:HA	3:22:98:ASN:HB2	1.98	0.44
4:32:4:TYR:C	4:32:4:TYR:HD1	2.26	0.44
6:52:53:ALA:HB3	6:52:86:ARG:HD3	1.98	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:62:100:ALA:O	7:62:104:LEU:HD13	2.17	0.44
12:3A:100:ILE:HG22	12:3A:101:VAL:N	2.32	0.44
26:14:273(F):C:H3'	26:14:274:G:C5'	2.46	0.44
26:14:340:A:H2'	26:14:341:G:O4'	2.17	0.44
26:14:459:U:H4'	54:L5:40:TRP:CH2	2.52	0.44
26:14:830:G:H4'	26:14:831:G:OP2	2.18	0.44
26:14:996:A:N6	26:14:1160:G:C6	2.85	0.44
26:14:1178:C:H2'	26:14:1179:C:C6	2.53	0.44
26:14:2115:G:H1'	26:14:2171:A:H61	1.82	0.44
26:14:2511:U:H2'	26:14:2512:C:C6	2.53	0.44
27:1J:18:G:H2'	27:1J:19:G:C8	2.53	0.44
29:19:236:GLY:O	29:19:237:GLU:O	2.35	0.44
30:29:171:GLU:O	30:29:184:VAL:HA	2.18	0.44
31:39:63:LYS:CE	31:39:67:GLN:HB2	2.46	0.44
32:49:70:VAL:HA	32:49:90:LEU:HD23	1.99	0.44
34:69:111:PRO:O	34:69:112:LYS:C	2.59	0.44
36:25:87:ILE:HG23	36:25:88:ASN:O	2.17	0.44
37:35:13:ASN:O	37:35:15:ARG:N	2.50	0.44
47:D5:52:SER:C	47:D5:54:HIS:H	2.25	0.44
50:G5:15:LYS:HG3	50:G5:15:LYS:O	2.17	0.44
53:J5:25:LEU:HD23	53:J5:25:LEU:HA	1.74	0.44
1:13:107:G:H2'	1:13:108:G:O4'	2.17	0.44
1:13:316:G:OP2	1:13:351:G:O2'	2.33	0.44
1:13:625:G:H2'	1:13:626:U:H6	1.82	0.44
1:13:639:G:H2'	1:13:640:A:H8	1.81	0.44
1:13:1072:G:C5	1:13:1073:U:C4	3.05	0.44
1:13:1091:U:C2	1:13:1095:U:C4	3.06	0.44
5:4E:71:LEU:CD1	5:4E:114:GLY:HA3	2.48	0.44
6:5E:75:LEU:O	6:5E:79:LEU:HG	2.17	0.44
11:2I:79:SER:HB2	11:2I:106:LYS:HD2	2.00	0.44
13:4I:3:ARG:HH11	13:4I:7:VAL:HG22	1.82	0.44
14:5I:3:ARG:O	14:5I:6:LEU:HB2	2.16	0.44
15:6I:56:LEU:O	15:6I:60:VAL:HG23	2.17	0.44
20:BI:12:ALA:O	20:BI:15:ARG:HB2	2.17	0.44
23:2K:63:C:O2	23:2K:64:G:C8	2.71	0.44
26:1H:18:C:O3'	42:C8:23:GLY:HA2	2.17	0.44
26:1H:566:U:OP1	37:78:29:LYS:NZ	2.48	0.44
26:1H:713:G:H2'	26:1H:714:U:C6	2.53	0.44
26:1H:725:G:C6	26:1H:726:G:N1	2.86	0.44
26:1H:1011:G:OP1	42:C8:75:ASN:HB3	2.18	0.44
26:1H:1337:G:H2'	26:1H:1338:G:O4'	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2331:G:H4'	48:I8:42:GLY:HA3	1.99	0.44
26:1H:2837:G:C6	26:1H:2838:G:N7	2.86	0.44
26:1H:2864:G:H2'	26:1H:2865:U:H6	1.80	0.44
28:71:197:GLU:HG2	28:71:208:PHE:HZ	1.83	0.44
32:41:61:ALA:HB2	32:41:67:LYS:HA	1.98	0.44
35:58:87:LEU:O	35:58:87:LEU:HD22	2.18	0.44
43:D8:71:LEU:HA	43:D8:71:LEU:HD23	1.83	0.44
49:J8:73:LEU:HD21	49:J8:90:ILE:O	2.17	0.44
1:1G:5:U:H4'	1:1G:6:G:C5'	2.46	0.44
1:1G:176:C:H2'	1:1G:177:C:H6	1.83	0.44
1:1G:224:C:H2'	1:1G:225:C:H6	1.82	0.44
1:1G:278:G:O4'	1:1G:282:A:H1'	2.17	0.44
1:1G:310:G:OP2	16:7A:27:LYS:HD3	2.17	0.44
1:1G:371:G:H1	1:1G:390:C:H42	1.64	0.44
1:1G:1217:C:H2'	1:1G:1218:C:C6	2.53	0.44
5:42:31:LEU:HA	5:42:45:PHE:HB2	1.99	0.44
5:42:104:ALA:O	5:42:107:ARG:NH2	2.50	0.44
13:4A:83:ASP:O	13:4A:84:ILE:HB	2.16	0.44
26:14:221:A:C4	26:14:266:G:N7	2.85	0.44
26:14:233:A:C5	26:14:234:C:C5	3.06	0.44
26:14:285:C:H42	26:14:356:G:H1	1.65	0.44
26:14:534:U:O2'	42:85:49:HIS:ND1	2.49	0.44
26:14:559:G:H2'	26:14:560:C:O4'	2.17	0.44
26:14:637:A:H2'	37:35:117:GLU:OE2	2.18	0.44
26:14:641:C:H5''	26:14:642:G:OP2	2.17	0.44
26:14:770:G:OP2	60:14:3424:HOH:O	2.21	0.44
26:14:770:G:H5''	26:14:771:G:OP2	2.17	0.44
26:14:1091:G:N2	26:14:1092:C:C2	2.86	0.44
26:14:1131:G:C8	26:14:2025:C:H4'	2.53	0.44
26:14:1154:G:O5'	26:14:1154:G:H8	2.00	0.44
26:14:1194:A:H2'	26:14:1195:G:O4'	2.17	0.44
26:14:1219:G:H1	26:14:1230:C:H42	1.64	0.44
26:14:1813:G:OP1	29:19:39:LYS:HE2	2.18	0.44
26:14:2162:G:C8	26:14:2164:C:N4	2.86	0.44
26:14:2646:C:OP2	26:14:2732:G:O2'	2.23	0.44
26:14:2748:A:H2'	26:14:2749:A:C8	2.53	0.44
28:79:207:THR:HB	28:79:210:ARG:NH1	2.32	0.44
31:39:110:LEU:HD23	31:39:110:LEU:HA	1.73	0.44
31:39:172:TRP:CD1	31:39:172:TRP:H	2.35	0.44
32:49:81:LYS:HB3	32:49:82:LEU:H	1.66	0.44
32:49:182:LYS:HE3	32:49:182:LYS:HB2	1.86	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:15:42:TRP:HA	35:15:48:MET:HE1	1.99	0.44
38:45:46:GLN:HE22	38:45:126:PRO:HG3	1.81	0.44
44:A5:46:PHE:O	44:A5:50:VAL:HG12	2.18	0.44
46:C5:82:PRO:HB3	46:C5:99:CYS:CB	2.47	0.44
50:G5:35:LEU:HD12	50:G5:53:LEU:HD12	1.98	0.44
54:L5:5:TRP:NE1	54:L5:7:PRO:HG3	2.31	0.44
1:13:51:A:OP2	1:13:52:G:C8	2.70	0.44
1:13:99:C:N4	1:13:101:A:H62	2.16	0.44
1:13:155:C:H2'	1:13:156:G:C8	2.53	0.44
1:13:198:G:C2	1:13:199:G:C8	3.06	0.44
1:13:263:A:OP1	20:BI:79:ARG:HD3	2.17	0.44
1:13:377:G:OP1	16:7I:3:LYS:HD2	2.17	0.44
20:BI:33:ILE:O	20:BI:37:SER:OG	2.28	0.44
26:1H:84:A:H3'	46:G8:8:LYS:HB2	1.99	0.44
26:1H:109:G:H2'	26:1H:110:G:O4'	2.18	0.44
26:1H:250:G:C6	26:1H:251:A:C6	3.06	0.44
26:1H:363(B):G:H2'	26:1H:363(C):G:C8	2.49	0.44
26:1H:637:A:H2'	37:78:117:GLU:OE1	2.18	0.44
26:1H:1575:C:H2'	26:1H:1576:U:C6	2.53	0.44
26:1H:1838:C:C2	26:1H:1898:U:C4	3.06	0.44
29:11:263:ARG:HH11	29:11:263:ARG:HG3	1.81	0.44
31:31:77:ASP:N	31:31:77:ASP:OD1	2.46	0.44
33:51:25:LYS:HG2	33:51:34:GLU:HG2	1.99	0.44
34:61:128:LEU:O	34:61:138:ILE:N	2.43	0.44
35:58:94:HIS:HB2	35:58:97:ARG:HE	1.83	0.44
40:A8:41:ASP:OD2	40:A8:44:LYS:HB2	2.17	0.44
43:D8:35:LEU:HD22	43:D8:36:PRO:HD2	1.98	0.44
44:E8:31:GLU:O	44:E8:35:ILE:HG13	2.17	0.44
46:G8:94:LYS:HG3	46:G8:95:LYS:C	2.43	0.44
48:I8:53:MET:HA	48:I8:58:THR:O	2.17	0.44
49:J8:71:TYR:O	49:J8:74:VAL:HG12	2.18	0.44
51:L8:4:LEU:HD23	51:L8:4:LEU:HA	1.80	0.44
55:Q8:32:LEU:O	55:Q8:36:LYS:HE3	2.17	0.44
1:1G:390:C:H2'	1:1G:391:G:C8	2.53	0.44
1:1G:428:G:C8	1:1G:430:A:C4	3.06	0.44
1:1G:980:C:C5	1:1G:981:U:C2	3.05	0.44
1:1G:1064:G:OP1	1:1G:1386:G:H4'	2.15	0.44
3:22:46:GLU:O	3:22:49:SER:OG	2.36	0.44
4:32:3:ARG:NH1	4:32:118:ARG:HD3	2.32	0.44
10:1A:48:THR:OG1	10:1A:62:HIS:HB3	2.18	0.44
18:9A:37:VAL:HG12	18:9A:78:LEU:HB3	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1L:45:G:C6	22:1L:48:C:C4	3.06	0.44
22:1L:50:C:H2'	22:1L:51:A:H8	1.83	0.44
26:14:1002:G:H2'	26:14:1003:G:O4'	2.18	0.44
26:14:1050:A:N3	26:14:2751:G:H2'	2.32	0.44
26:14:1342:A:C2	26:14:1397:U:C2	3.05	0.44
26:14:2176:A:H1'	28:79:44:HIS:HE1	1.82	0.44
26:14:2386:C:H2'	26:14:2387:U:O4'	2.17	0.44
26:14:2528:U:O2'	26:14:2530:A:OP1	2.28	0.44
26:14:2737:G:H2'	26:14:2738:A:C8	2.52	0.44
27:1J:116:G:H2'	27:1J:117:G:O4'	2.16	0.44
30:29:41:LYS:HG3	30:29:42:ASP:H	1.82	0.44
30:29:127:ASP:OD2	60:29:401:HOH:O	2.21	0.44
32:49:32:PRO:HB3	32:49:163:ALA:HB2	1.99	0.44
34:69:4:ILE:HG21	34:69:47:LEU:HD13	2.00	0.44
37:35:65:ARG:O	37:35:65:ARG:HD2	2.18	0.44
40:65:6:ALA:HA	40:65:9:ARG:NH1	2.32	0.44
40:65:15:ARG:HB3	40:65:19:LYS:HZ2	1.82	0.44
42:85:91:ASP:OD1	42:85:96:ALA:N	2.49	0.44
1:13:491:G:P	4:3E:151:LYS:NZ	2.91	0.44
1:13:858:G:O6	1:13:869:G:H3'	2.18	0.44
1:13:953:G:H2'	1:13:954:G:O4'	2.18	0.44
1:13:1145:C:H4'	1:13:1146:A:C8	2.49	0.44
1:13:1152:A:OP1	10:1I:68:HIS:ND1	2.48	0.44
3:2E:30:ARG:NH1	14:5I:35:ARG:O	2.50	0.44
9:8E:118:LYS:O	9:8E:119:ALA:HB3	2.18	0.44
11:2I:116:HIS:CD2	11:2I:116:HIS:N	2.86	0.44
13:4I:11:ARG:HG3	13:4I:12:ASN:H	1.83	0.44
13:4I:81:LEU:HD23	13:4I:81:LEU:HA	1.57	0.44
19:AI:12:ASP:OD2	19:AI:37:ARG:HD3	2.18	0.44
22:1K:6:G:H4'	22:1K:7:U:OP1	2.17	0.44
22:1K:18:G:C5	22:1K:57:G:N2	2.85	0.44
26:1H:259:G:O2'	26:1H:621:A:O2'	2.08	0.44
26:1H:928:G:H2'	26:1H:929:G:O4'	2.17	0.44
26:1H:954:G:H4'	38:88:13:GLN:OE1	2.17	0.44
26:1H:991:C:H2'	26:1H:992:C:C6	2.51	0.44
26:1H:1379:A:H4'	26:1H:1380:G:OP1	2.15	0.44
26:1H:1972:A:H2'	26:1H:1973:G:C8	2.52	0.44
26:1H:2109:U:H1'	26:1H:2181:G:N2	2.33	0.44
26:1H:2349:G:OP2	55:Q8:42:ARG:HD3	2.18	0.44
26:1H:2644:G:H8	26:1H:2644:G:O5'	2.01	0.44
26:1H:2789:C:H1'	26:1H:2892:A:C2	2.46	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:11:233:HIS:HB3	60:11:402:HOH:O	2.18	0.44
33:51:6:ARG:CZ	33:51:54:ARG:HH12	2.30	0.44
33:51:72:ILE:O	33:51:76:VAL:HG23	2.17	0.44
35:58:29:LYS:O	35:58:30:ILE:C	2.58	0.44
37:78:96:THR:O	37:78:100:LEU:HD23	2.18	0.44
42:C8:39:LEU:HA	42:C8:39:LEU:HD23	1.72	0.44
43:D8:49:THR:HG23	43:D8:51:VAL:N	2.32	0.44
1:1G:191(C):G:C2	1:1G:191(D):U:C2	3.06	0.44
1:1G:947:G:C6	1:1G:948:C:C4	3.06	0.44
1:1G:1008:C:H1'	1:1G:1022:G:H22	1.82	0.44
1:1G:1112:C:N3	3:22:178:LEU:HD23	2.32	0.44
1:1G:1454:G:H5''	20:BA:35:THR:HG21	1.99	0.44
2:12:27:LYS:O	2:12:30:ARG:NH1	2.50	0.44
2:12:178:ARG:HD3	2:12:196:LEU:O	2.18	0.44
3:22:3:ASN:OD1	3:22:3:ASN:N	2.50	0.44
3:22:124:ILE:HG13	3:22:130:VAL:HG22	1.99	0.44
4:32:18:LYS:HE3	4:32:31:CYS:SG	2.57	0.44
4:32:120:LEU:HD23	4:32:120:LEU:HA	1.81	0.44
4:32:196:LEU:H	4:32:196:LEU:HG	1.49	0.44
7:62:99:LEU:HD22	7:62:103:TRP:CE2	2.53	0.44
9:82:26:VAL:HG12	9:82:27:THR:N	2.32	0.44
11:2A:20:TYR:CZ	11:2A:83:ILE:HD12	2.52	0.44
16:7A:62:VAL:O	16:7A:62:VAL:HG12	2.17	0.44
19:AA:14:HIS:CG	19:AA:15:LEU:N	2.85	0.44
23:2L:36:A:H2'	23:2L:37:U:H6	1.82	0.44
26:14:37:C:H2'	26:14:38:A:C8	2.52	0.44
26:14:71:A:H3'	26:14:71:A:P	2.57	0.44
26:14:511:U:C3'	26:14:512:G:H5''	2.38	0.44
26:14:807:U:H2'	26:14:808:G:H8	1.82	0.44
26:14:1115:G:C5	26:14:1116:C:C4	3.06	0.44
26:14:1496:A:C8	26:14:1577:C:O2'	2.71	0.44
26:14:2290:G:O2'	26:14:2381:C:H1'	2.17	0.44
26:14:2776:A:OP1	26:14:2776:A:H3'	2.18	0.44
28:79:44:HIS:HD2	28:79:171:ILE:O	2.00	0.44
29:19:65:ILE:HG21	29:19:65:ILE:HD13	1.53	0.44
31:39:5:ALA:HB3	31:39:18:ARG:C	2.43	0.44
31:39:11:VAL:HG23	31:39:12:LEU:H	1.82	0.44
37:35:52:GLU:O	37:35:54:GLY:N	2.50	0.44
37:35:101:VAL:HB	37:35:106:LEU:HD23	1.99	0.44
41:75:12:SER:HA	41:75:14:TYR:H	1.82	0.44
42:85:91:ASP:C	42:85:93:LYS:N	2.74	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:713:G:H2'	1:13:714:G:C8	2.53	0.44
1:13:749:C:H2'	1:13:750:G:H8	1.83	0.44
1:13:1439:C:H2'	1:13:1440:C:H6	1.83	0.44
4:3E:13:ARG:NH1	4:3E:38:TYR:O	2.51	0.44
7:6E:46:ALA:O	7:6E:50:ILE:N	2.44	0.44
9:8E:49:PRO:O	9:8E:53:VAL:HG22	2.17	0.44
11:2I:31:THR:HG22	11:2I:42:TRP:HB2	2.00	0.44
15:6I:39:LEU:HD13	15:6I:56:LEU:HD12	2.00	0.44
26:1H:558:G:OP1	35:58:111:PRO:HD2	2.17	0.44
26:1H:756:C:C4	26:1H:757:U:C5	3.06	0.44
26:1H:901:A:N3	26:1H:901:A:H2'	2.32	0.44
26:1H:1170:G:N2	26:1H:1180:C:C2	2.85	0.44
26:1H:1322:A:H2'	26:1H:1323:U:H6	1.83	0.44
26:1H:1479:G:C6	26:1H:1480:G:C5	3.05	0.44
26:1H:1523:U:C2	26:1H:1524:G:C8	3.05	0.44
26:1H:1638:C:H5''	26:1H:2710:C:O2'	2.17	0.44
26:1H:2162:G:C5	26:1H:2163:C:C4	3.05	0.44
26:1H:2170:A:H8	26:1H:2170:A:OP2	2.00	0.44
26:1H:2367:G:H2'	26:1H:2368:C:C6	2.53	0.44
26:1H:2439:A:H5'	26:1H:2439:A:C8	2.53	0.44
26:1H:2604:U:C2'	26:1H:2605:U:H5'	2.48	0.44
27:16:16:G:N2	27:16:69:G:H1'	2.32	0.44
27:16:82:G:H2'	27:16:83:G:O4'	2.17	0.44
30:21:47:VAL:O	30:21:80:GLU:HA	2.17	0.44
30:21:116:VAL:HG21	30:21:122:PHE:CD2	2.53	0.44
32:41:117:PHE:CZ	32:41:119:GLY:HA2	2.53	0.44
41:B8:125:ARG:HA	41:B8:128:GLU:CD	2.43	0.44
42:C8:79:PHE:CE1	42:C8:83:LEU:HD22	2.53	0.44
43:D8:72:VAL:CG1	43:D8:85:LYS:HB3	2.48	0.44
46:G8:96:ILE:HD12	46:G8:101:LYS:HG2	1.99	0.44
47:H8:111:VAL:HG12	47:H8:146:ILE:CG1	2.48	0.44
1:1G:596:C:H2'	1:1G:597:G:H8	1.81	0.44
1:1G:1018:C:H2'	1:1G:1019:C:O4'	2.18	0.44
1:1G:1033:G:H2'	1:1G:1033:G:N3	2.33	0.44
1:1G:1103:C:C2	1:1G:1104:G:C8	3.05	0.44
1:1G:1237:C:OP1	1:1G:1238:A:H1'	2.18	0.44
1:1G:1254:C:N4	10:1A:43:ARG:HH12	2.15	0.44
1:1G:1320:C:H2'	1:1G:1321:C:O4'	2.17	0.44
1:1G:1486:G:H2'	1:1G:1487:G:O4'	2.16	0.44
2:12:168:THR:HG21	2:12:191:ASP:O	2.18	0.44
3:22:121:ALA:O	3:22:125:GLU:HG3	2.18	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:72:24:THR:O	8:72:60:ARG:HA	2.17	0.44
9:82:21:PRO:HA	9:82:59:PHE:CD1	2.52	0.44
9:82:99:LEU:HB3	9:82:101:PHE:HE1	1.82	0.44
11:2A:96:ARG:HD3	11:2A:96:ARG:N	2.32	0.44
23:2L:33:OMC:O2'	23:2L:34:U:H6	2.00	0.44
26:14:493:G:H2'	26:14:494:G:O4'	2.17	0.44
26:14:591:C:H1'	55:M5:2:PRO:N	2.33	0.44
26:14:754:C:H2'	26:14:755:C:C6	2.53	0.44
26:14:1444(A):A:O2'	26:14:1444(A):A:N3	2.42	0.44
26:14:1444(A):A:O2'	26:14:1445:C:P	2.76	0.44
26:14:1728:G:H2'	26:14:1731:G:O6	2.17	0.44
26:14:2543:G:H2'	26:14:2544:G:C8	2.53	0.44
29:19:85:ASP:HB2	29:19:92:ILE:HD13	1.98	0.44
29:19:223:GLY:HA2	29:19:226:MET:HG3	2.00	0.44
30:29:81:ILE:HD12	30:29:81:ILE:HG23	1.73	0.44
32:49:61:ALA:HB2	32:49:68:PRO:HD3	2.00	0.44
37:35:118:GLY:O	37:35:137:LYS:NZ	2.43	0.44
37:35:127:ALA:O	37:35:147:LEU:N	2.50	0.44
38:45:35:VAL:HG12	38:45:36:ALA:N	2.32	0.44
38:45:89:ASN:O	38:45:92:GLY:N	2.46	0.44
46:C5:8:LYS:O	46:C5:27:VAL:HG11	2.17	0.44
47:D5:5:LEU:HA	47:D5:5:LEU:HD23	1.74	0.44
47:D5:9:TYR:CZ	47:D5:35:ARG:NH1	2.85	0.44
47:D5:94:GLU:HB3	47:D5:96:VAL:HG23	1.99	0.44
49:F5:82:LEU:HG	49:F5:83:GLU:N	2.31	0.44
54:L5:22:MET:O	54:L5:28:ARG:NH1	2.51	0.44
1:13:51:A:N7	1:13:114:U:O2'	2.51	0.44
1:13:344:A:H5''	1:13:345:C:H6	1.83	0.44
1:13:358:U:H2'	1:13:359:U:O4'	2.18	0.44
1:13:734:G:C2	1:13:735:C:C2	3.05	0.44
1:13:939:G:H2'	1:13:940:C:C6	2.52	0.44
1:13:1020:U:H2'	1:13:1021:G:C8	2.53	0.44
2:1E:51:LEU:O	2:1E:55:PHE:HB2	2.18	0.44
2:1E:166:ASP:HB2	2:1E:205:ASP:OD2	2.17	0.44
2:1E:215:LEU:O	2:1E:218:ALA:HB3	2.17	0.44
3:2E:7:PRO:HG2	3:2E:184:TYR:CB	2.47	0.44
3:2E:195:VAL:O	3:2E:196:LEU:HD23	2.18	0.44
4:3E:107:ARG:HH12	4:3E:194:LEU:HD22	1.82	0.44
5:4E:103:GLY:O	5:4E:107:ARG:HB3	2.18	0.44
6:5E:3:ARG:NH1	6:5E:38:GLU:OE2	2.51	0.44
8:7E:120:THR:H	8:7E:123:GLU:HG3	1.82	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:8E:48:GLU:N	9:8E:49:PRO:HD2	2.32	0.44
12:3I:78:GLN:HG3	12:3I:79:GLU:H	1.83	0.44
17:8I:45:HIS:HB3	17:8I:72:ARG:HG2	1.98	0.44
26:1H:587:C:H4'	26:1H:588:U:C6	2.53	0.44
26:1H:911:A:H2'	38:88:9:TYR:OH	2.17	0.44
26:1H:1042:G:H2'	26:1H:1043:C:O4'	2.18	0.44
26:1H:2287:A:C4	26:1H:2289:G:C8	3.05	0.44
26:1H:2747:G:O6	26:1H:2755:C:H5''	2.18	0.44
29:11:119:ALA:CB	29:11:130:ALA:HB3	2.48	0.44
31:31:17:ARG:O	31:31:17:ARG:HG3	2.18	0.44
33:51:86:GLU:OE1	33:51:86:GLU:N	2.49	0.44
46:G8:63:LYS:NZ	46:G8:64:GLU:HG3	2.33	0.44
1:1G:449:C:C5	16:7A:42:ARG:NH1	2.85	0.44
1:1G:1224:G:O2'	1:1G:1322:C:OP2	2.36	0.44
1:1G:1368:G:H5''	9:82:112:LYS:HB3	2.00	0.44
1:1G:1493:A:H2'	26:14:1913:A:N1	2.33	0.44
3:22:116:VAL:O	3:22:119:ARG:HB3	2.17	0.44
5:42:60:TYR:O	5:42:64:ARG:HG2	2.18	0.44
12:3A:47:LYS:O	12:3A:48:PRO:C	2.61	0.44
13:4A:15:VAL:HA	13:4A:18:ALA:HB3	1.99	0.44
13:4A:23:TYR:CZ	13:4A:71:ARG:HG2	2.53	0.44
13:4A:61:GLU:H	13:4A:61:GLU:HG3	1.37	0.44
17:8A:55:ASP:HA	17:8A:79:SER:HA	2.00	0.44
23:2L:76:C:H2'	23:2L:77:A:C8	2.52	0.44
26:14:580:C:H2'	26:14:581:C:C6	2.53	0.44
26:14:615:G:H2'	31:39:44:ARG:HH11	1.82	0.44
26:14:1335:U:H2'	26:14:1336:A:O4'	2.18	0.44
26:14:1416:G:H2'	26:14:1417:C:C6	2.53	0.44
26:14:1786:A:H1'	26:14:1938:A:H61	1.78	0.44
26:14:2141:G:C4	26:14:2151:G:C2	3.06	0.44
26:14:2416:C:H2'	26:14:2417:C:H6	1.82	0.44
26:14:2850:A:N7	26:14:2868:A:O2'	2.41	0.44
27:1J:11:C:H3'	27:1J:12:C:C6	2.53	0.44
31:39:129:PHE:HA	31:39:142:TRP:NE1	2.33	0.44
37:35:71:VAL:CG1	37:35:72:PRO:HD3	2.46	0.44
39:55:33:ARG:HD3	39:55:115:GLU:OE2	2.18	0.44
46:C5:60:PHE:HD1	46:C5:60:PHE:H	1.64	0.44
47:D5:78:LYS:H	47:D5:78:LYS:HG3	1.62	0.44
49:F5:46:LEU:HD12	49:F5:46:LEU:HA	1.76	0.44
1:13:438:G:H5'	4:3E:123:HIS:CG	2.53	0.44
1:13:625:G:H4'	16:7I:16:HIS:ND1	2.32	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1028(A):C:N4	1:13:1032(A):G:H22	2.16	0.44
1:13:1151:A:H4'	10:1I:70:ARG:NH2	2.32	0.44
1:13:1239:A:O2'	7:6E:114:ARG:O	2.31	0.44
2:1E:121:LEU:HA	2:1E:124:SER:CB	2.45	0.44
3:2E:142:MET:HE2	3:2E:170:GLN:HB3	2.00	0.44
4:3E:159:ARG:O	4:3E:163:GLU:N	2.38	0.44
4:3E:176:LEU:HD12	4:3E:177:ASP:N	2.33	0.44
5:4E:91:LEU:HD12	5:4E:118:ILE:CD1	2.43	0.44
5:4E:112:LEU:HD23	5:4E:112:LEU:HA	1.52	0.44
12:3I:70:ILE:HG12	12:3I:100:ILE:HG13	2.00	0.44
14:5I:6:LEU:HB3	14:5I:23:ARG:HH22	1.81	0.44
14:5I:13:THR:N	14:5I:14:PRO:HD2	2.33	0.44
22:1K:66:A:N7	22:1K:67:C:C2	2.86	0.44
26:1H:1197:G:H5'	26:1H:1228:G:O2'	2.18	0.44
26:1H:1684:C:H2'	26:1H:1685:C:C6	2.53	0.44
26:1H:1686:C:H2'	26:1H:1687:G:O4'	2.17	0.44
26:1H:1853:A:N1	26:1H:2087:G:H1'	2.32	0.44
26:1H:2115:G:H2'	26:1H:2116:G:C8	2.53	0.44
26:1H:2532:G:H2'	26:1H:2533:A:O4'	2.18	0.44
28:7I:37:PHE:CG	28:7I:38:ASP:N	2.86	0.44
29:11:31:LYS:NZ	29:11:102:LYS:NZ	2.66	0.44
29:11:272:ALA:HB1	29:11:273:ARG:H	1.57	0.44
31:31:130:ALA:C	31:31:132:VAL:H	2.26	0.44
43:D8:85:LYS:HE2	43:D8:85:LYS:HB2	1.89	0.44
45:F8:31:HIS:CE1	45:F8:33:LYS:HB2	2.53	0.44
47:H8:112:ARG:HE	47:H8:112:ARG:HB3	1.36	0.44
1:1G:437:U:H1'	4:32:119:GLN:NE2	2.33	0.44
1:1G:1111:A:H2'	1:1G:1112:C:C6	2.53	0.44
1:1G:1280:A:H5''	10:1A:40:LEU:HG	1.98	0.44
1:1G:1291:G:H2'	1:1G:1292:U:C6	2.53	0.44
2:12:17:PHE:CZ	2:12:44:LEU:HG	2.52	0.44
2:12:217:ARG:O	2:12:219:VAL:HG13	2.17	0.44
3:22:111:LEU:HD12	3:22:111:LEU:H	1.83	0.44
4:32:126:ILE:HG22	4:32:127:THR:H	1.82	0.44
4:32:138:TYR:HD1	4:32:139:ARG:N	2.16	0.44
7:62:47:CYS:HB3	7:62:58:PRO:CB	2.48	0.44
7:62:111:ARG:NH2	7:62:122:HIS:HB3	2.33	0.44
10:1A:63:PHE:HD1	14:5A:58:LYS:HA	1.82	0.44
16:7A:66:PRO:HG2	16:7A:71:ARG:HH21	1.82	0.44
17:8A:40:LYS:HB3	17:8A:42:TYR:CE1	2.53	0.44
19:AA:10:PHE:HB2	19:AA:11:VAL:HG23	2.00	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:1L:63:U:H2'	22:1L:64:G:O4'	2.18	0.44
25:4L:10:G:H2'	25:4L:11:U:H5'	2.00	0.44
26:14:677:A:H61	26:14:800:A:H61	1.64	0.44
26:14:958:U:O2	27:1J:89(A):A:O2'	2.29	0.44
26:14:959:A:C6	26:14:960:A:N1	2.85	0.44
26:14:1028:A:H61	26:14:1125:G:H2'	1.83	0.44
26:14:1387:C:C2	26:14:1388:G:C8	3.06	0.44
26:14:1636:C:H2'	26:14:1637:A:H8	1.78	0.44
26:14:2095:C:C4	26:14:2096:U:C5	3.06	0.44
26:14:2649:U:H2'	26:14:2650:U:C6	2.53	0.44
27:1J:94:C:H2'	27:1J:95:U:C6	2.53	0.44
29:19:11:PRO:O	29:19:12:SER:OG	2.24	0.44
29:19:115:GLN:HG2	29:19:116:GLN:H	1.83	0.44
29:19:221:VAL:HB	29:19:226:MET:HE2	2.00	0.44
32:49:48:GLU:H	32:49:48:GLU:CD	2.25	0.44
34:69:37:VAL:HG12	34:69:38:LEU:N	2.30	0.44
38:45:73:PRO:HB3	38:45:93:TYR:CE1	2.52	0.44
1:13:191(E):G:H2'	1:13:191(F):U:C6	2.53	0.43
1:13:609:A:C2'	1:13:610:G:H5'	2.47	0.43
1:13:690:G:H22	11:2I:55:LYS:HE2	1.81	0.43
1:13:768:A:H2'	1:13:769:G:O4'	2.17	0.43
1:13:877:C:OP1	8:7E:88:LYS:NZ	2.37	0.43
1:13:1021:G:C6	1:13:1022:G:C5	3.06	0.43
1:13:1316:G:H2'	1:13:1318:A:OP2	2.18	0.43
1:13:1442:G:H2'	1:13:1443:G:C5'	2.48	0.43
1:13:1503:A:N3	25:4K:12:A:C2	2.86	0.43
2:1E:24:TRP:CD1	2:1E:24:TRP:H	2.36	0.43
8:7E:95:VAL:HG12	8:7E:96:GLY:O	2.18	0.43
11:2I:85:ARG:CG	11:2I:112:THR:H	2.31	0.43
13:4I:51:ALA:O	13:4I:54:VAL:N	2.48	0.43
13:4I:84:ILE:HD12	13:4I:84:ILE:HA	1.80	0.43
16:7I:3:LYS:O	16:7I:21:VAL:HA	2.18	0.43
20:BI:53:LEU:HA	20:BI:53:LEU:HD13	1.81	0.43
26:1H:10:G:H2'	26:1H:11:G:O4'	2.18	0.43
26:1H:105:C:H6	26:1H:105:C:O5'	2.01	0.43
26:1H:216:A:H2'	26:1H:217:G:H8	1.83	0.43
26:1H:419:C:H2'	26:1H:420:C:O4'	2.17	0.43
26:1H:728:G:H4'	29:11:13:ARG:HD3	2.00	0.43
26:1H:1389:G:C2	26:1H:1399:C:O2	2.72	0.43
26:1H:1901:A:OP2	29:11:255:LYS:HE2	2.18	0.43
26:1H:2404:C:N4	26:1H:2405:G:C6	2.86	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2726:U:O2'	26:1H:2727:G:H8	2.01	0.43
26:1H:2875:C:H2'	26:1H:2876:G:O4'	2.18	0.43
29:11:96:HIS:CE1	29:11:102:LYS:HE2	2.53	0.43
30:21:31:CYS:HA	30:21:32:PRO:HD3	1.83	0.43
31:31:51:THR:CB	31:31:88:VAL:HG11	2.48	0.43
32:41:83:ARG:HA	32:41:83:ARG:HD3	1.73	0.43
37:78:112:LEU:HD12	37:78:127:ALA:CB	2.47	0.43
41:B8:41:ARG:HH12	41:B8:43:GLN:HG3	1.82	0.43
41:B8:105:LEU:C	41:B8:107:ASP:H	2.25	0.43
48:I8:74:ARG:NH1	48:I8:74:ARG:HB3	2.33	0.43
50:K8:47:ASN:C	50:K8:49:LYS:N	2.68	0.43
53:N8:36:CYS:SG	53:N8:37:LYS:NZ	2.91	0.43
1:1G:57:G:C5	1:1G:58:C:C4	3.06	0.43
1:1G:304:U:H2'	1:1G:305:G:C8	2.53	0.43
1:1G:597:G:C6	1:1G:644:G:C6	3.05	0.43
1:1G:994:A:N7	1:1G:1216:G:H4'	2.33	0.43
1:1G:1321:C:C4	1:1G:1322:C:C4	3.06	0.43
1:1G:1368:G:O2'	1:1G:1369:C:H5'	2.18	0.43
1:1G:1401:G:C2	1:1G:1402:C:H1'	2.53	0.43
2:12:44:LEU:H	2:12:44:LEU:HD12	1.83	0.43
5:42:76:ILE:HD12	5:42:142:LEU:HD13	2.00	0.43
8:72:116:LYS:H	8:72:116:LYS:HG2	1.58	0.43
14:5A:47:LEU:HA	14:5A:47:LEU:HD23	1.70	0.43
15:6A:55:GLY:O	15:6A:59:MET:HB2	2.18	0.43
17:8A:17:LYS:HG2	17:8A:47:PRO:HA	2.00	0.43
19:AA:65:ASN:OD1	19:AA:66:MET:HG2	2.18	0.43
24:3L:36:U:H3'	24:3L:37:A:C8	2.52	0.43
24:3L:53:G:H1	24:3L:61:C:H42	1.65	0.43
26:14:852:G:H2'	26:14:853:G:C8	2.53	0.43
26:14:1069:A:H5''	26:14:1070:A:OP1	2.18	0.43
26:14:1151:G:O3'	42:85:81:HIS:HB2	2.18	0.43
26:14:1223:C:P	43:95:88:ARG:HH22	2.40	0.43
26:14:1646:C:H5''	26:14:1647:G:H5'	2.00	0.43
26:14:1717:G:H1	26:14:1742:C:N4	2.11	0.43
26:14:1818:U:H2'	29:19:157:ARG:HG3	1.99	0.43
26:14:1878:G:H2'	26:14:1879:C:H6	1.81	0.43
26:14:2176:A:H2'	26:14:2177:C:C6	2.53	0.43
26:14:2737:G:H2'	26:14:2738:A:H8	1.83	0.43
27:1J:63:G:C2	27:1J:64:C:C2	3.06	0.43
30:29:47:VAL:HG23	30:29:84:PHE:O	2.18	0.43
46:C5:3:VAL:HG11	46:C5:32:PRO:O	2.18	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:C5:59:GLY:O	46:C5:61:ILE:HG13	2.18	0.43
50:G5:46:GLN:OE1	50:G5:46:GLN:CA	2.66	0.43
1:13:103:C:H2'	1:13:104:G:H8	1.82	0.43
1:13:247:G:OP1	17:8I:100:LYS:HD2	2.18	0.43
1:13:352:C:O2'	1:13:353:A:O3'	2.34	0.43
1:13:402:G:OP1	4:3E:74:GLN:HG2	2.18	0.43
1:13:575:G:C4	1:13:881:G:C2	3.06	0.43
1:13:603:U:H2'	1:13:604:G:C8	2.52	0.43
1:13:607:A:C2	16:7I:31:LYS:HG3	2.52	0.43
1:13:820:U:H4'	1:13:821:G:OP2	2.18	0.43
1:13:1121:U:H2'	1:13:1122:U:O4'	2.17	0.43
1:13:1306:A:H62	1:13:1331:G:N2	2.16	0.43
1:13:1423:G:P	36:68:49:ARG:NH2	2.91	0.43
2:1E:15:VAL:HG11	2:1E:210:SER:OG	2.18	0.43
2:1E:231:GLU:HA	2:1E:232:PRO:HD3	1.71	0.43
4:3E:161:ASN:O	4:3E:165:MET:HB2	2.17	0.43
5:4E:48:ALA:HB3	5:4E:54:ALA:HB2	2.00	0.43
9:8E:5:TYR:CG	9:8E:6:GLY:N	2.86	0.43
9:8E:34:ASN:OD1	9:8E:34:ASN:N	2.52	0.43
9:8E:70:LYS:O	9:8E:74:ILE:HG13	2.17	0.43
12:3I:65:GLU:O	12:3I:65:GLU:HG3	2.17	0.43
14:5I:23:ARG:NH1	14:5I:30:ALA:HB2	2.32	0.43
15:6I:27:VAL:O	15:6I:31:LEU:HD23	2.19	0.43
19:AI:25:LYS:HB3	19:AI:27:GLU:H	1.84	0.43
24:3K:61:C:H2'	24:3K:62:C:O4'	2.18	0.43
26:1H:289:A:N6	26:1H:351:G:H1'	2.33	0.43
26:1H:492:A:H2'	26:1H:493:G:O4'	2.18	0.43
26:1H:1515:C:H2'	26:1H:1516:U:C6	2.50	0.43
26:1H:1799:G:H5''	26:1H:1819:A:N6	2.33	0.43
26:1H:1826:G:H4'	29:11:242:ARG:HH21	1.83	0.43
26:1H:1926:U:O2	26:1H:1928:A:C8	2.72	0.43
26:1H:2299:G:H8	26:1H:2299:G:O5'	2.01	0.43
26:1H:2339:G:H2'	26:1H:2340:G:C8	2.53	0.43
26:1H:2478:A:C8	26:1H:2529:G:C6	3.06	0.43
26:1H:2542:A:H4'	26:1H:2543:G:C8	2.53	0.43
26:1H:2611:U:C2	53:N8:3:LYS:HB3	2.54	0.43
26:1H:2660:A:H8	26:1H:2660:A:O5'	2.00	0.43
26:1H:2813:A:C5	26:1H:2814:C:C5	3.06	0.43
29:11:46:GLN:H	29:11:46:GLN:HG2	1.70	0.43
29:11:145:VAL:HB	29:11:155:LEU:HB2	2.00	0.43
29:11:148:GLU:HB2	29:11:151:LYS:HD2	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:68:26:LYS:HD2	36:68:37:ASP:CG	2.43	0.43
37:78:49:ARG:HH12	37:78:50:ARG:NH2	2.16	0.43
40:A8:66:ALA:HA	40:A8:69:VAL:HG12	1.99	0.43
46:G8:34:LYS:O	46:G8:34:LYS:CG	2.66	0.43
1:1G:37:U:O2'	1:1G:547:A:N1	2.39	0.43
1:1G:38:G:O2'	1:1G:39:G:H5''	2.17	0.43
1:1G:57:G:H2'	1:1G:58:C:C6	2.53	0.43
1:1G:509:A:H5''	4:32:55:ALA:HB2	1.98	0.43
1:1G:1032(B):G:H2'	1:1G:1033:G:O4'	2.17	0.43
1:1G:1039:C:H5''	1:1G:1040:U:OP1	2.18	0.43
1:1G:1062:U:H2'	1:1G:1063:C:C6	2.53	0.43
1:1G:1145:C:H4'	1:1G:1146:A:H8	1.81	0.43
1:1G:1237:C:O2'	1:1G:1300:G:N2	2.47	0.43
1:1G:1326:C:OP1	21:1B:17:THR:OG1	2.25	0.43
2:12:61:LEU:HD21	2:12:157:ARG:HH22	1.83	0.43
7:62:65:ALA:CB	7:62:124:LEU:HD23	2.45	0.43
9:82:89:ASN:OD1	9:82:89:ASN:N	2.51	0.43
11:2A:27:ASN:HD22	11:2A:55:LYS:HD2	1.83	0.43
11:2A:66:LEU:HD23	11:2A:97:ALA:HB1	2.01	0.43
12:3A:89:ARG:HE	12:3A:89:ARG:HB3	1.55	0.43
13:4A:79:LYS:HG3	13:4A:82:MET:CE	2.48	0.43
14:5A:7:ILE:HG22	14:5A:23:ARG:NH1	2.33	0.43
24:3L:18:G:H2'	24:3L:57:G:H21	1.82	0.43
26:14:28:A:C5	26:14:29:U:C5	3.06	0.43
26:14:302:C:N4	60:14:3484:HOH:O	2.51	0.43
26:14:1204:A:H61	26:14:1240:U:H2'	1.83	0.43
26:14:1269:A:H61	26:14:2011:U:H3	1.65	0.43
26:14:1356:G:H2'	26:14:1357:U:O4'	2.18	0.43
26:14:1685:C:H2'	26:14:1686:C:H6	1.83	0.43
26:14:2366:A:H2'	26:14:2367:G:O4'	2.18	0.43
26:14:2577:A:H4'	53:J5:2:ALA:HA	1.99	0.43
26:14:2720:U:N3	26:14:2873:A:H2	2.16	0.43
30:29:195:LEU:HD12	30:29:195:LEU:HA	1.65	0.43
34:69:75:LEU:HD22	34:69:77:LEU:H	1.83	0.43
37:35:131:SER:HB3	37:35:134:ALA:HB2	1.99	0.43
42:85:90:VAL:HG12	42:85:91:ASP:HA	2.01	0.43
46:C5:86:ARG:HG3	46:C5:87:LYS:N	2.32	0.43
1:13:5:U:N3	4:3E:87:GLY:HA3	2.30	0.43
1:13:113:G:N3	1:13:353:A:O2'	2.43	0.43
1:13:254:G:H2'	1:13:255:G:O4'	2.17	0.43
1:13:982:U:H4'	1:13:983:A:O5'	2.17	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1351:U:O4	9:8E:118:LYS:HE3	2.18	0.43
3:2E:178:LEU:HD13	3:2E:178:LEU:HA	1.90	0.43
4:3E:83:SER:O	4:3E:86:LYS:HG3	2.18	0.43
15:6I:40:SER:O	15:6I:44:LYS:HG3	2.18	0.43
26:1H:90:U:H1'	26:1H:91:A:C8	2.54	0.43
26:1H:530:G:N1	26:1H:2022:U:OP1	2.52	0.43
26:1H:654(N):G:C8	26:1H:654(P):G:N2	2.86	0.43
26:1H:1211:U:H4'	26:1H:1212:G:OP2	2.18	0.43
26:1H:1335:U:H2'	26:1H:1336:A:O4'	2.19	0.43
26:1H:1508:A:H4'	26:1H:1509:C:C1'	2.49	0.43
26:1H:1999:C:OP1	30:21:118:LYS:NZ	2.50	0.43
26:1H:2565:A:H5''	26:1H:2566:A:OP2	2.18	0.43
27:16:41:U:C5	32:41:70:VAL:HG12	2.54	0.43
30:21:14:ILE:O	30:21:15:PHE:HB2	2.18	0.43
32:41:103:LEU:HD21	32:41:178:PHE:HZ	1.83	0.43
33:51:20:ALA:HB3	33:51:23:ARG:HG2	1.99	0.43
34:61:124:GLY:H	34:61:142:VAL:HG23	1.81	0.43
35:58:12:ARG:HG2	35:58:13:TRP:N	2.32	0.43
42:C8:79:PHE:C	42:C8:79:PHE:HD1	2.26	0.43
50:K8:58:ALA:O	50:K8:62:THR:HG22	2.19	0.43
1:1G:223:U:H2'	1:1G:224:C:C6	2.53	0.43
1:1G:355:C:O2'	1:1G:388:G:N3	2.41	0.43
1:1G:617:G:C6	1:1G:618:C:C5	3.06	0.43
1:1G:934:C:O2'	1:1G:1344:C:OP2	2.22	0.43
1:1G:1126:U:N3	1:1G:1281:U:O4'	2.51	0.43
1:1G:1127:G:H2'	1:1G:1128:C:C6	2.47	0.43
2:12:86:GLU:C	2:12:89:GLY:H	2.25	0.43
4:32:25:ARG:HG3	4:32:30:LYS:O	2.18	0.43
4:32:63:LYS:HB2	4:32:63:LYS:HE3	1.71	0.43
7:62:20:ASP:HB3	7:62:23:VAL:CG2	2.48	0.43
8:72:120:THR:CG2	8:72:123:GLU:H	2.26	0.43
17:8A:60:ILE:HG23	17:8A:62:SER:OG	2.18	0.43
18:9A:37:VAL:CG1	18:9A:78:LEU:HB3	2.48	0.43
26:14:71:A:C2	45:B5:31:HIS:CE1	2.98	0.43
26:14:161:U:H5'	26:14:171:G:N2	2.33	0.43
26:14:631:A:O2'	37:35:67:MET:HB3	2.18	0.43
26:14:769:G:H2'	26:14:770:G:H8	1.82	0.43
26:14:943:U:OP1	37:35:36:LYS:HG3	2.19	0.43
26:14:1138:G:N3	35:15:106:MET:HE2	2.33	0.43
26:14:1170:G:H2'	26:14:1171:G:H5'	1.99	0.43
26:14:1674:G:H1'	26:14:1676:A:N6	2.33	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2622:C:H5'	30:29:159:HIS:CE1	2.52	0.43
26:14:2844:G:C6	26:14:2845:G:C4	3.07	0.43
26:14:2844:G:C5	26:14:2845:G:C5	3.06	0.43
29:19:8:PRO:HB3	29:19:14:ARG:HB2	2.01	0.43
29:19:70:TRP:O	29:19:73:VAL:HG23	2.18	0.43
29:19:228:PRO:HD3	29:19:234:GLY:O	2.19	0.43
39:55:100:LEU:HD12	39:55:111:LEU:HB2	2.00	0.43
40:65:7:TYR:HA	40:65:10:ARG:HH21	1.83	0.43
42:85:92:ARG:C	42:85:94:ASN:N	2.76	0.43
46:C5:2:ARG:HD3	46:C5:2:ARG:HA	1.73	0.43
46:C5:19:LYS:C	46:C5:21:LYS:H	2.26	0.43
47:D5:48:PHE:O	47:D5:52:SER:OG	2.30	0.43
54:L5:29:LYS:O	54:L5:33:ARG:HG3	2.18	0.43
1:13:51:A:N3	1:13:116:A:HI'	2.34	0.43
1:13:187:C:O2	1:13:191(A):G:C6	2.71	0.43
1:13:235:C:H5'	17:8I:70:ARG:CG	2.39	0.43
1:13:291:C:H42	1:13:309:G:H1	1.66	0.43
1:13:724:G:O2'	1:13:725:G:H5'	2.18	0.43
1:13:738:C:H2'	1:13:739:C:C6	2.53	0.43
1:13:827:U:C4	1:13:870:U:C4	3.07	0.43
1:13:1178:G:N7	9:8E:97:LYS:NZ	2.63	0.43
1:13:1197:G:H2'	1:13:1198:G:H5'	2.00	0.43
1:13:1448:C:N4	1:13:1455:G:H1	2.07	0.43
3:2E:139:GLN:O	3:2E:143:GLU:HG3	2.17	0.43
4:3E:80:GLU:O	4:3E:83:SER:HB2	2.19	0.43
6:5E:100:ASN:HB2	18:9I:28:GLU:HA	2.00	0.43
11:2I:30:VAL:HG21	11:2I:65:ALA:HA	1.99	0.43
12:3I:84:LEU:HD22	12:3I:104:VAL:HG11	1.99	0.43
18:9I:37:VAL:O	18:9I:41:LYS:HG2	2.19	0.43
20:BI:11:SER:O	20:BI:14:LYS:HB3	2.19	0.43
26:1H:394:A:C6	26:1H:395:U:N3	2.87	0.43
26:1H:606:U:H4'	26:1H:658:C:H4'	2.00	0.43
26:1H:633:A:H2'	26:1H:634:C:H5'	1.99	0.43
26:1H:658:C:H2'	26:1H:659:C:C6	2.54	0.43
26:1H:1195:G:O2'	26:1H:1227:A:N1	2.51	0.43
26:1H:1392:A:N6	26:1H:1393:A:N6	2.67	0.43
26:1H:1532:C:H2'	26:1H:1533:C:O4'	2.18	0.43
26:1H:2840:C:H4'	39:98:53:HIS:CE1	2.53	0.43
30:21:116:VAL:HG23	30:21:120:TRP:HD1	1.83	0.43
31:31:101:LEU:HA	31:31:101:LEU:HD23	1.68	0.43
34:61:95:LYS:HE3	34:61:95:LYS:HB3	1.52	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:14:LYS:O	37:78:15:ARG:C	2.60	0.43
40:A8:32:LEU:HD23	40:A8:32:LEU:N	2.34	0.43
42:C8:31:SER:O	42:C8:32:PHE:C	2.62	0.43
48:I8:42:GLY:O	48:I8:57:PHE:HD2	2.01	0.43
49:J8:71:TYR:HA	49:J8:74:VAL:HG12	2.00	0.43
55:Q8:6:THR:HG23	55:Q8:64:TYR:CD2	2.50	0.43
1:1G:457:C:H2'	1:1G:458:C:O4'	2.18	0.43
1:1G:565:U:H3'	1:1G:566:G:H2'	1.99	0.43
1:1G:888:G:HO2'	1:1G:1488:G:HO2'	1.61	0.43
1:1G:909:A:H2'	1:1G:910:C:O4'	2.18	0.43
1:1G:1105:A:H2'	1:1G:1106:G:H8	1.83	0.43
1:1G:1127:G:H2'	1:1G:1127:G:N3	2.33	0.43
2:12:139:LYS:O	2:12:143:GLU:HG3	2.17	0.43
3:22:35:GLU:HA	3:22:38:ARG:HE	1.83	0.43
5:42:18:ARG:HH21	5:42:25:ARG:HH11	1.67	0.43
6:52:7:ASN:N	6:52:7:ASN:OD1	2.52	0.43
15:6A:56:LEU:O	15:6A:60:VAL:HG23	2.18	0.43
22:1L:55:PSU:OP1	38:45:55:VAL:HG11	2.18	0.43
23:2L:40:C:H2'	23:2L:41:C:C6	2.53	0.43
26:14:1282:U:H2'	26:14:1283:G:O4'	2.18	0.43
26:14:2303:G:C2'	26:14:2304:G:H5'	2.48	0.43
26:14:2688:U:C5	26:14:2720:U:OP2	2.72	0.43
26:14:2837:G:H2'	26:14:2838:G:H8	1.83	0.43
26:14:2841:C:H2'	26:14:2842:G:H8	1.82	0.43
26:14:2869:G:H2'	26:14:2870:C:O4'	2.18	0.43
27:1J:47:C:H5'	40:65:10:ARG:HH12	1.83	0.43
27:1J:66:A:H61	27:1J:107:U:H2'	1.83	0.43
30:29:107:THR:O	30:29:190:GLY:HA2	2.19	0.43
31:39:66:PRO:O	31:39:67:GLN:CB	2.61	0.43
32:49:120:LEU:HB2	32:49:180:PHE:CD1	2.53	0.43
34:69:122:GLU:HB3	34:69:126:TYR:OH	2.17	0.43
40:65:43:GLU:HG3	40:65:44:LYS:HE2	2.00	0.43
41:75:86:ILE:HG21	41:75:86:ILE:HD13	1.71	0.43
43:95:34:GLU:OE2	43:95:56:SER:HB2	2.18	0.43
43:95:94:LEU:HD23	43:95:94:LEU:HA	1.78	0.43
50:G5:42:GLY:HA2	50:G5:43:GLN:OE1	2.19	0.43
1:13:254:G:O3'	17:8I:69:LYS:NZ	2.40	0.43
1:13:468:A:H3'	1:13:474:G:H8	1.84	0.43
1:13:807:A:H2'	1:13:808:C:H6	1.84	0.43
1:13:1191:A:H5''	3:2E:4:LYS:HE2	2.01	0.43
1:13:1286:A:C2	21:1F:18:TYR:OH	2.71	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1450:U:O2'	1:13:1451:A:C5	2.71	0.43
4:3E:22:LYS:HD3	4:3E:25:ARG:HD2	2.01	0.43
4:3E:64:LEU:O	4:3E:67:ILE:N	2.52	0.43
8:7E:87:SER:CB	8:7E:93:VAL:H	2.31	0.43
9:8E:7:THR:O	9:8E:83:ARG:HG3	2.18	0.43
13:4I:49:THR:HB	13:4I:52:GLU:HG2	1.99	0.43
13:4I:65:LYS:H	13:4I:65:LYS:HD2	1.82	0.43
26:1H:218:A:OP2	60:1H:3560:HOH:O	2.21	0.43
26:1H:478:A:C6	26:1H:480:A:C6	3.07	0.43
26:1H:607:U:H3	26:1H:621:A:H2	1.58	0.43
26:1H:806:C:P	37:78:41:ARG:NH2	2.92	0.43
26:1H:1380:G:N2	26:1H:1570:A:C2	2.86	0.43
26:1H:1425:G:H2'	26:1H:1426:G:O4'	2.18	0.43
26:1H:1473:G:H2'	26:1H:1474:C:O4'	2.18	0.43
26:1H:1491:G:O4'	29:11:99:ASP:HB3	2.19	0.43
26:1H:1830:C:O2'	26:1H:1831:G:H5'	2.19	0.43
26:1H:2172:U:H5'	26:1H:2173:A:OP2	2.19	0.43
26:1H:2392:A:H1'	37:78:61:ARG:HH11	1.82	0.43
26:1H:2561:A:N3	36:68:23:ARG:HD2	2.34	0.43
27:16:24:G:C5	27:16:56:G:C4	3.07	0.43
27:16:31:C:H2'	27:16:32:C:H6	1.84	0.43
28:71:21:THR:OG1	28:71:24:GLU:HG2	2.19	0.43
29:11:72:LYS:O	29:11:73:VAL:C	2.62	0.43
29:11:73:VAL:HG13	29:11:120:GLY:HA3	2.00	0.43
29:11:130:ALA:C	29:11:131:LEU:HD12	2.43	0.43
32:41:137:GLU:HG3	32:41:140:ILE:HG23	2.00	0.43
35:58:56:ASN:C	35:58:57:ALA:O	2.61	0.43
40:A8:69:VAL:HG13	40:A8:101:LEU:HD13	2.00	0.43
40:A8:78:LEU:HD11	40:A8:108:GLY:CA	2.43	0.43
1:1G:171:A:H2'	1:1G:172:A:C8	2.54	0.43
1:1G:591:U:H2'	1:1G:592:G:H8	1.80	0.43
1:1G:600:C:H4'	8:72:128:GLY:O	2.19	0.43
1:1G:957:U:H1'	1:1G:960:U:C5	2.39	0.43
1:1G:992:U:H3	1:1G:1044:A:N6	2.16	0.43
1:1G:1004:A:O2'	1:1G:1027:C:N4	2.52	0.43
1:1G:1138:G:O2'	1:1G:1139:G:H5'	2.19	0.43
1:1G:1328:C:O2'	13:4A:29:ARG:NH2	2.50	0.43
1:1G:1344:C:H5''	9:82:120:ARG:O	2.18	0.43
4:32:201:GLN:HA	4:32:204:ILE:HB	2.01	0.43
6:52:7:ASN:ND2	18:9A:34:TYR:HE2	2.14	0.43
8:72:12:ARG:CZ	8:72:27:PRO:HD3	2.49	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:4A:92:HIS:NE2	13:4A:98:VAL:HG21	2.33	0.43
23:2L:14:A:C4	23:2L:23:G:C2	3.06	0.43
24:3L:40:C:H2'	24:3L:41:A:C8	2.53	0.43
24:3L:60:U:H5''	24:3L:61:C:OP2	2.18	0.43
26:14:123:G:H2'	26:14:124:G:O4'	2.19	0.43
26:14:234:C:H2'	26:14:235:U:C6	2.54	0.43
26:14:311:A:C6	26:14:328:U:C4	3.07	0.43
26:14:911:A:C6	38:45:9:TYR:CD2	3.07	0.43
26:14:1022:G:C5	26:14:1140:C:N4	2.86	0.43
26:14:1509:C:H5'	26:14:1510:A:O4'	2.18	0.43
33:59:61:HIS:HA	33:59:64:LEU:HG	2.00	0.43
34:69:5:LEU:HD11	34:69:19:VAL:HB	1.99	0.43
37:35:52:GLU:HG2	37:35:55:ARG:HB3	2.00	0.43
41:75:61:PHE:CE1	41:75:76:PHE:HB2	2.54	0.43
43:95:20:LEU:O	43:95:94:LEU:N	2.50	0.43
48:E5:51:VAL:N	48:E5:62:LEU:HD12	2.33	0.43
1:13:17:U:O2'	1:13:18:C:H5'	2.18	0.43
1:13:186(E):C:N4	1:13:191(B):G:H1	2.16	0.43
1:13:345:C:O2	1:13:345:C:H2'	2.17	0.43
1:13:376:G:H5''	16:7I:5:ARG:HD2	1.99	0.43
1:13:390:C:H2'	1:13:391:G:C8	2.53	0.43
1:13:458:C:H2'	1:13:464:G:O4'	2.18	0.43
1:13:590:C:H42	1:13:649:G:H1	1.66	0.43
1:13:841:U:H6	1:13:841:U:H2'	1.64	0.43
1:13:1188:A:N6	60:13:1828:HOH:O	2.45	0.43
1:13:1483:A:C8	1:13:1484:C:C6	3.07	0.43
4:3E:15:GLU:OE1	4:3E:59:ARG:NH2	2.40	0.43
7:6E:95:ARG:HH11	7:6E:99:LEU:HD21	1.83	0.43
9:8E:50:LEU:HD23	9:8E:50:LEU:HA	1.87	0.43
17:8I:11:VAL:HG22	17:8I:20:THR:O	2.18	0.43
17:8I:66:SER:OG	17:8I:69:LYS:HB2	2.19	0.43
22:1K:60:U:H5'	22:1K:61:C:C5	2.53	0.43
24:3K:18:G:H1'	24:3K:58:A:C2	2.54	0.43
26:1H:444:C:H4'	31:31:49:ALA:HB2	1.99	0.43
26:1H:506:G:H5''	26:1H:509:C:H1'	2.01	0.43
26:1H:900:A:H3'	26:1H:901:A:C8	2.37	0.43
26:1H:1223:C:C2	26:1H:1229:G:C2	3.07	0.43
26:1H:1585:C:H2'	26:1H:1586:A:H5'	2.00	0.43
26:1H:1799:G:H5'	26:1H:1819:A:H61	1.83	0.43
26:1H:1817:G:C6	26:1H:1818:U:C4	3.06	0.43
26:1H:2110:G:C6	26:1H:2120:G:C8	3.06	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2216:G:C2	26:1H:2217:G:C4	3.06	0.43
26:1H:2469:A:H2'	38:88:56:ARG:NH2	2.33	0.43
26:1H:2779:U:O2	26:1H:2779:U:O4'	2.33	0.43
31:31:28:ILE:HG12	31:31:119:ARG:NH2	2.33	0.43
32:41:142:PRO:HB2	52:M8:31:ILE:HG21	1.99	0.43
33:51:10:PRO:C	33:51:11:VAL:HG23	2.44	0.43
33:51:94:TYR:HA	33:51:106:THR:O	2.18	0.43
1:1G:20:U:H2'	1:1G:21:G:O4'	2.18	0.43
1:1G:236:G:H2'	1:1G:237:C:C6	2.53	0.43
1:1G:377:G:P	16:7A:5:ARG:HH11	2.42	0.43
1:1G:745:C:H2'	1:1G:746:A:C8	2.53	0.43
1:1G:782:A:O3'	1:1G:1515:C:H4'	2.18	0.43
2:12:51:LEU:HA	2:12:54:THR:HB	2.01	0.43
3:22:29:TYR:OH	14:5A:54:PRO:HD2	2.18	0.43
4:32:184:LYS:HB2	4:32:184:LYS:HE3	1.82	0.43
7:62:22:LEU:H	7:62:22:LEU:HG	1.60	0.43
19:AA:66:MET:HA	19:AA:67:VAL:C	2.43	0.43
22:1L:72:C:H3'	22:1L:73:A:H5''	2.01	0.43
23:2L:41:C:C2	23:2L:42:C:C5	3.07	0.43
26:14:579:G:C4	26:14:580:C:C5	3.07	0.43
26:14:1171:G:OP2	26:14:1171:G:H8	2.01	0.43
26:14:1429:G:H2'	26:14:1430:C:C6	2.54	0.43
26:14:1954:G:O2'	26:14:1956:U:O4	2.35	0.43
26:14:2178:C:H5'	28:79:46:LYS:HD3	2.01	0.43
26:14:2356:C:H4'	48:E5:20:ARG:HG3	1.99	0.43
26:14:2378:A:O2'	40:65:23:ARG:HD2	2.19	0.43
26:14:2600:A:H2'	26:14:2601:C:C6	2.54	0.43
26:14:2677:G:H2'	26:14:2678:C:C6	2.53	0.43
27:1J:88:C:H4'	27:1J:89:G:OP2	2.18	0.43
29:19:133:LEU:HD13	29:19:173:VAL:HG13	2.00	0.43
31:39:110:LEU:HD11	31:39:205:ARG:NH2	2.31	0.43
31:39:143:ALA:HB1	31:39:148:LEU:CB	2.48	0.43
32:49:52:ILE:HG23	32:49:53:LEU:N	2.33	0.43
38:45:42:ILE:HD13	38:45:97:VAL:HG21	2.01	0.43
38:45:81:VAL:HG23	38:45:82:ARG:H	1.84	0.43
38:45:103:MET:O	38:45:104:PHE:HB2	2.18	0.43
39:55:24:GLN:OE1	39:55:36:THR:HG21	2.18	0.43
39:55:38:VAL:HG22	39:55:112:ALA:HB2	2.01	0.43
42:85:12:ARG:HG2	42:85:12:ARG:H	1.60	0.43
43:95:71:LEU:CA	43:95:86:GLY:HA2	2.49	0.43
47:D5:27:VAL:HG23	47:D5:36:LYS:HA	1.99	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:F5:92:LYS:HG2	49:F5:93:GLU:H	1.83	0.43
54:L5:29:LYS:HA	54:L5:32:LYS:HB3	1.99	0.43
1:13:554:C:H2'	1:13:555:C:C6	2.54	0.43
1:13:872:A:C5	1:13:874:G:C8	3.06	0.43
1:13:948:C:OP1	13:4I:109:THR:OG1	2.35	0.43
1:13:1316:G:N2	1:13:1319:A:H5'	2.33	0.43
6:5E:23:LYS:HB3	6:5E:23:LYS:HE2	1.80	0.43
6:5E:24:GLU:HG3	6:5E:28:ARG:NE	2.33	0.43
18:9I:40:LEU:HA	18:9I:40:LEU:HD23	1.66	0.43
23:2K:65:G:C2	23:2K:66:C:C2	3.07	0.43
24:3K:51:A:H61	24:3K:63:U:H3	1.66	0.43
24:3K:59:A:H3'	24:3K:60:U:C6	2.54	0.43
26:1H:43:G:H2'	26:1H:44:A:O4'	2.19	0.43
26:1H:271(B):G:H8	26:1H:271(B):G:H2'	1.67	0.43
26:1H:602:G:N2	26:1H:655:A:C8	2.79	0.43
26:1H:996:A:O3'	42:C8:92:ARG:HG2	2.19	0.43
26:1H:1311:G:N7	54:P8:9:ARG:NH2	2.66	0.43
26:1H:1942:C:OP2	26:1H:1943:U:O2'	2.27	0.43
26:1H:2056:G:C2	26:1H:2057:A:C8	3.06	0.43
26:1H:2093:G:H5'	34:61:22:LYS:HD2	1.99	0.43
27:16:31:C:H2'	27:16:32:C:C6	2.54	0.43
32:41:139:LEU:HD23	32:41:139:LEU:H	1.83	0.43
33:51:24:VAL:HG21	33:51:72:ILE:HD12	2.00	0.43
35:58:46:VAL:O	35:58:47:ALA:HB3	2.18	0.43
38:88:69:PHE:C	38:88:95:ALA:HB2	2.44	0.43
43:D8:58:VAL:CG2	43:D8:98:GLU:HG3	2.49	0.43
47:H8:3:TYR:O	47:H8:58:VAL:HG22	2.19	0.43
48:I8:42:GLY:C	48:I8:57:PHE:HD2	2.26	0.43
1:1G:777:A:C6	1:1G:778:G:C4	3.07	0.43
1:1G:946:A:H61	1:1G:1234:C:H42	1.67	0.43
1:1G:960:U:O2'	1:1G:1223:C:H5''	2.19	0.43
1:1G:979:C:OP1	1:1G:1223:C:N4	2.50	0.43
2:12:182:ILE:H	2:12:182:ILE:HD12	1.83	0.43
3:22:35:GLU:O	3:22:39:ILE:HD12	2.19	0.43
13:4A:39:ILE:HG22	13:4A:40:ASN:H	1.83	0.43
14:5A:9:LYS:CA	14:5A:12:ARG:HH12	2.32	0.43
14:5A:17:LYS:NZ	14:5A:18:VAL:HG13	2.33	0.43
23:2L:5:G:H2'	23:2L:6:G:O4'	2.19	0.43
24:3L:59:A:C6	24:3L:60:U:H1'	2.54	0.43
26:14:123:G:O3'	26:14:1376:C:H4'	2.18	0.43
26:14:483:A:H5'	46:C5:49:VAL:HA	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1142:U:O2	26:14:1142:U:H2'	2.17	0.43
26:14:1573:G:C8	26:14:1574:C:C5	3.06	0.43
26:14:1813:G:H1'	29:19:50:THR:OG1	2.19	0.43
26:14:2197:U:O2'	26:14:2198:A:H2'	2.18	0.43
26:14:2259:G:C2	26:14:2282:G:N1	2.87	0.43
26:14:2271:G:H5''	48:E5:20:ARG:NE	2.33	0.43
26:14:2309:A:C6	26:14:2310:A:C6	3.07	0.43
26:14:2861:G:C2	26:14:2862:G:C4	3.07	0.43
27:1J:115:G:H8	27:1J:115:G:OP2	2.02	0.43
32:49:76:SER:HA	32:49:82:LEU:HD12	2.01	0.43
41:75:26:ASP:O	41:75:49:VAL:HG22	2.18	0.43
1:13:456:C:H42	1:13:476:G:H1	1.66	0.43
1:13:545:C:H5'	4:3E:72:GLU:HG2	2.00	0.43
1:13:660:G:H2'	1:13:661:G:O4'	2.19	0.43
1:13:691:G:O2'	1:13:797:C:H4'	2.19	0.43
1:13:936:C:O2'	24:3K:34:U:H5'	2.18	0.43
1:13:1120:G:H2'	1:13:1121:U:C6	2.53	0.43
1:13:1137:C:O2'	1:13:1138:G:N3	2.52	0.43
1:13:1338:G:C6	1:13:1339:A:C6	3.06	0.43
1:13:1478:C:H2'	1:13:1479:C:C6	2.53	0.43
7:6E:16:LEU:CD1	9:8E:42:ARG:HA	2.48	0.43
8:7E:86:ILE:HG22	8:7E:87:SER:H	1.84	0.43
11:2I:59:TYR:CE2	11:2I:63:LEU:HD11	2.54	0.43
12:3I:83:VAL:HG11	12:3I:100:ILE:HD12	2.01	0.43
13:4I:23:TYR:HD2	13:4I:67:GLU:HA	1.83	0.43
16:7I:21:VAL:HG22	16:7I:34:GLU:O	2.19	0.43
16:7I:72:ARG:HA	16:7I:75:ARG:HB3	1.99	0.43
17:8I:28:PRO:HA	17:8I:35:VAL:HA	2.01	0.43
22:1K:52:G:H22	22:1K:62:C:N4	2.16	0.43
24:3K:58:A:O2'	24:3K:59:A:P	2.77	0.43
26:1H:55:G:C2	26:1H:116:C:N3	2.87	0.43
26:1H:57:C:H2'	26:1H:58:G:O4'	2.19	0.43
26:1H:99:U:C6	26:1H:102:G:N1	2.87	0.43
26:1H:564:C:H2'	26:1H:565:C:O4'	2.19	0.43
26:1H:604:G:P	37:78:90:ARG:HH21	2.42	0.43
26:1H:792:G:H5''	26:1H:793:A:H5'	2.01	0.43
26:1H:1188:U:H4'	43:D8:79:VAL:HG22	2.00	0.43
26:1H:1766:U:H2'	26:1H:1767:C:H6	1.83	0.43
26:1H:2027:G:C5	26:1H:2028:U:C5	3.07	0.43
26:1H:2144:U:N3	26:1H:2146:C:O2	2.52	0.43
26:1H:2369:A:H2'	26:1H:2370:G:C8	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2393:A:H2'	26:1H:2394:C:C6	2.54	0.43
27:16:6:C:C2	27:16:115:G:N2	2.86	0.43
29:11:9:TYR:CZ	29:11:13:ARG:HG2	2.53	0.43
29:11:31:LYS:HZ1	29:11:102:LYS:NZ	2.17	0.43
31:31:23:ASP:OD1	31:31:24:LEU:N	2.46	0.43
32:41:46:ALA:HB1	32:41:53:LEU:HD22	2.01	0.43
32:41:111:LEU:HA	32:41:114:ILE:HG13	2.01	0.43
36:68:6:THR:HG22	36:68:7:TYR:O	2.19	0.43
38:88:20:ALA:CB	38:88:99:PRO:HB2	2.47	0.43
51:L8:7:LYS:HA	51:L8:33:GLN:O	2.19	0.43
1:1G:437:U:H5''	4:32:155:LEU:HD13	2.00	0.43
1:1G:837:G:H2'	1:1G:838:G:H8	1.84	0.43
1:1G:1219:U:OP1	14:5A:19:ARG:NH2	2.49	0.43
1:1G:1348:U:H4'	9:82:120:ARG:HD2	2.00	0.43
4:32:201:GLN:O	4:32:205:GLU:HB2	2.19	0.43
5:42:110:LEU:HD21	5:42:139:LEU:HD21	2.01	0.43
9:82:52:ALA:C	9:82:95:LYS:HD2	2.43	0.43
9:82:99:LEU:HB3	9:82:101:PHE:CE1	2.54	0.43
10:1A:94:VAL:HG12	10:1A:95:GLU:N	2.34	0.43
14:5A:60:SER:O	14:5A:61:TRP:HB3	2.18	0.43
15:6A:61:GLY:O	15:6A:65:ARG:HD2	2.19	0.43
16:7A:16:HIS:CD2	16:7A:16:HIS:N	2.85	0.43
16:7A:58:TYR:O	16:7A:62:VAL:HG23	2.19	0.43
22:1L:42:A:O5'	22:1L:42:A:H8	2.02	0.43
24:3L:58:A:OP1	24:3L:58:A:H8	2.02	0.43
25:4L:10:G:H8	25:4L:10:G:OP2	2.02	0.43
26:14:1141:U:P	35:15:25:ARG:HH21	2.42	0.43
26:14:1655:A:H3'	26:14:1656:C:H6	1.84	0.43
26:14:1945:G:C6	26:14:1946:U:C4	3.06	0.43
26:14:2137:C:N4	26:14:2154:G:H1	2.17	0.43
26:14:2146:C:H4'	26:14:2147:G:N7	2.33	0.43
26:14:2748:A:H2'	26:14:2749:A:H8	1.83	0.43
26:14:2884:U:H2'	26:14:2885:C:O4'	2.19	0.43
27:1J:14:U:H5'	27:1J:70:C:O2	2.19	0.43
28:79:46:LYS:HB2	28:79:210:ARG:CB	2.49	0.43
34:69:82:ARG:O	34:69:89:TYR:HD2	2.01	0.43
39:55:59:ASP:OD1	39:55:61:HIS:HB3	2.18	0.43
41:75:63:VAL:O	41:75:73:GLU:HA	2.19	0.43
42:85:100:VAL:O	42:85:102:GLU:N	2.50	0.43
43:95:79:VAL:O	43:95:80:GLN:CG	2.64	0.43
1:13:167:G:H2'	1:13:168:G:H8	1.83	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:449:C:C6	16:7I:42:ARG:HD2	2.54	0.43
1:13:577:G:N2	1:13:764:C:O2	2.41	0.43
1:13:641:U:O2'	1:13:642:A:OP2	2.32	0.43
1:13:994:A:H2'	1:13:994:A:N3	2.34	0.43
1:13:1005:A:H5''	1:13:1006:C:C6	2.54	0.43
1:13:1053:G:N7	1:13:1199:U:H3'	2.34	0.43
1:13:1053:G:N7	1:13:1200:C:H5''	2.34	0.43
1:13:1216:G:OP1	14:5I:2:ALA:HB1	2.18	0.43
1:13:1525:G:OP1	11:2I:120:ARG:NH2	2.51	0.43
2:1E:155:LEU:HD13	2:1E:155:LEU:HA	1.83	0.43
4:3E:126:ILE:HD13	4:3E:126:ILE:HA	1.88	0.43
11:2I:54:ARG:O	11:2I:57:THR:HG22	2.19	0.43
18:9I:59:SER:HB3	18:9I:62:GLU:CG	2.49	0.43
23:2K:53:G:C6	23:2K:54:G:N7	2.87	0.43
24:3K:1:G:N3	24:3K:1:G:H2'	2.34	0.43
26:1H:669:G:N3	26:1H:669:G:C2'	2.81	0.43
26:1H:1126:A:H8	26:1H:1126:A:O5'	2.01	0.43
26:1H:1271:G:O3'	26:1H:1272:A:H4'	2.19	0.43
26:1H:1321:A:H2'	26:1H:1322:A:O4'	2.19	0.43
26:1H:1387:C:C2	26:1H:1388:G:C8	3.07	0.43
26:1H:1485:G:C2	26:1H:1486:A:C4	3.07	0.43
26:1H:1512:G:H2'	26:1H:1513:C:H6	1.81	0.43
26:1H:1749:A:C4	26:1H:1750:G:C8	3.07	0.43
26:1H:1819:A:O4'	26:1H:1821:A:C5	2.72	0.43
26:1H:1823:G:OP1	29:11:54:ARG:NH2	2.45	0.43
26:1H:1996:C:H6	26:1H:1996:C:OP1	2.01	0.43
26:1H:2062:A:HO2'	26:1H:2063:C:P	2.42	0.43
26:1H:2470:G:H8	26:1H:2470:G:O5'	2.01	0.43
26:1H:2542:A:H4'	26:1H:2543:G:H8	1.83	0.43
26:1H:2653:U:H2'	26:1H:2654:A:C8	2.54	0.43
30:21:84:PHE:CZ	30:21:86:PRO:HB3	2.53	0.43
32:41:95:ARG:CA	32:41:99:MET:HB2	2.45	0.43
32:41:117:PHE:HZ	32:41:179:PRO:HG2	1.83	0.43
39:98:29:LEU:HB2	39:98:75:LEU:HD21	1.99	0.43
39:98:52:ILE:O	39:98:55:ALA:N	2.52	0.43
40:A8:24:LEU:CD1	40:A8:41:ASP:HB2	2.49	0.43
40:A8:83:LYS:O	40:A8:109:GLY:HA2	2.19	0.43
41:B8:26:ASP:CB	41:B8:91:ARG:HA	2.49	0.43
45:F8:55:ASN:HB2	45:F8:80:ILE:CG1	2.46	0.43
45:F8:55:ASN:O	45:F8:79:ALA:HA	2.19	0.43
45:F8:66:LEU:HD12	45:F8:66:LEU:HA	1.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:H8:67:LEU:HD22	47:H8:90:VAL:HG21	2.00	0.43
1:1G:567:G:C2	1:1G:568:G:H1'	2.54	0.43
1:1G:586:C:H1'	1:1G:878:G:O2'	2.18	0.43
1:1G:895:G:H2'	1:1G:896:C:C6	2.54	0.43
1:1G:956:U:C2	1:1G:1225:A:C2	3.07	0.43
1:1G:1050:G:N2	1:1G:1209:C:H1'	2.34	0.43
1:1G:1090:U:H2'	1:1G:1091:U:C6	2.53	0.43
2:12:25:ASN:OD1	2:12:27:LYS:HB2	2.18	0.43
2:12:219:VAL:HB	2:12:221:LEU:N	2.34	0.43
3:22:88:ARG:C	3:22:91:LEU:HD13	2.44	0.43
4:32:20:TYR:CD1	4:32:26:CYS:HB3	2.50	0.43
5:42:74:GLY:HA3	5:42:116:THR:OG1	2.19	0.43
7:62:73:MET:HG2	7:62:90:GLU:HA	2.00	0.43
17:8A:63:ARG:HG2	17:8A:64:PRO:HD2	2.01	0.43
19:AA:13:ASP:HA	19:AA:16:LEU:HD23	2.01	0.43
26:14:227:A:C2	26:14:2407:G:H1'	2.54	0.43
26:14:312:G:H5'	26:14:331:A:O2'	2.19	0.43
26:14:529:A:C8	26:14:530:G:C6	3.07	0.43
26:14:603:A:H1'	26:14:604:G:O4'	2.19	0.43
26:14:1324:G:H4'	26:14:1616:A:C2	2.54	0.43
26:14:2210:G:H5'	26:14:2211:G:C6	2.53	0.43
28:79:200:LYS:HB3	28:79:208:PHE:CG	2.54	0.43
29:19:2:ALA:HB3	29:19:20:ASP:HB2	2.01	0.43
31:39:123:LEU:O	31:39:193:VAL:HA	2.19	0.43
32:49:77:ILE:O	32:49:82:LEU:HB3	2.19	0.43
32:49:109:VAL:O	32:49:113:ARG:HG3	2.19	0.43
36:25:113:LYS:H	36:25:113:LYS:HG2	1.28	0.43
38:45:82:ARG:HD3	38:45:82:ARG:HA	1.68	0.43
38:45:125:LEU:HD23	38:45:125:LEU:HA	1.68	0.43
39:55:60:LEU:HA	39:55:60:LEU:HD12	1.67	0.43
40:65:34:HIS:HB3	40:65:53:SER:OG	2.18	0.43
41:75:29:ARG:HD3	41:75:44:ASP:OD2	2.18	0.43
45:B5:11:PRO:HD3	50:G5:37:PHE:CE2	2.53	0.43
1:13:22:G:H2'	1:13:23:C:H6	1.84	0.43
1:13:232:G:C5	1:13:233:C:C5	3.07	0.43
1:13:243:A:H4'	1:13:244:U:H3'	2.01	0.43
1:13:277:C:H2'	1:13:278:G:C8	2.53	0.43
1:13:450:G:N7	1:13:481:G:C6	2.87	0.43
1:13:457:C:H2'	1:13:458:C:H6	1.83	0.43
1:13:639:G:O2'	1:13:640:A:H5'	2.19	0.43
1:13:739:C:O2	15:6I:42:HIS:HE1	2.01	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:838:G:O6	1:13:848:C:N4	2.52	0.43
1:13:959:A:C2	1:13:1222:G:O4'	2.71	0.43
1:13:1032:A:H3'	1:13:1032(A):G:H4'	2.01	0.43
1:13:1305:G:H5'	21:1F:4:GLY:HA3	2.01	0.43
1:13:1531:A:N3	1:13:1531:A:H2'	2.34	0.43
2:1E:160:ASP:O	2:1E:183:PRO:HD2	2.19	0.43
13:4I:70:LEU:HD23	13:4I:70:LEU:HA	1.77	0.43
17:8I:63:ARG:HG3	17:8I:64:PRO:HD2	2.01	0.43
19:AI:58:VAL:HG11	19:AI:75:ALA:HB1	2.01	0.43
22:1K:22:G:OP1	22:1K:48:C:N4	2.51	0.43
24:3K:49:G:C8	24:3K:66:A:C6	3.07	0.43
26:1H:68:G:H2'	26:1H:69:C:O4'	2.19	0.43
26:1H:99:U:O4	46:G8:8:LYS:NZ	2.52	0.43
26:1H:153:C:H2'	26:1H:154:G:H8	1.84	0.43
26:1H:340:A:H2'	26:1H:341:G:O4'	2.19	0.43
26:1H:764:A:N3	29:11:213:ARG:NH1	2.64	0.43
26:1H:977:G:C5	26:1H:987:G:C2	3.07	0.43
26:1H:1257:C:OP1	31:31:75:HIS:HE1	2.01	0.43
26:1H:1397:U:OP2	26:1H:1398:C:N4	2.35	0.43
26:1H:1533:C:C6	26:1H:1534:G:H5''	2.53	0.43
26:1H:1550:C:H2'	26:1H:1551:C:C6	2.48	0.43
26:1H:1591:G:H2'	26:1H:1592:C:H6	1.83	0.43
26:1H:1729:A:H2'	26:1H:1731:G:N7	2.34	0.43
26:1H:2019:A:H62	53:N8:9:LYS:NZ	2.17	0.43
26:1H:2135:A:H5'	26:1H:2159:G:H21	1.84	0.43
26:1H:2208:U:O2	26:1H:2217:G:C2	2.72	0.43
30:21:38:THR:CG2	30:21:41:LYS:H	2.30	0.43
31:31:165:ARG:HA	31:31:168:ARG:HD3	2.01	0.43
35:58:1:MET:CE	43:D8:12:TYR:HA	2.49	0.43
37:78:127:ALA:HB3	37:78:130:PHE:CZ	2.53	0.43
38:88:109:VAL:HG13	38:88:113:GLN:HB3	2.01	0.43
48:I8:47:PRO:HB3	48:I8:59:LEU:HD22	2.00	0.43
55:Q8:52:LYS:O	55:Q8:53:PRO:C	2.62	0.43
1:1G:49:U:C2	1:1G:361:G:N2	2.87	0.43
1:1G:976:G:H5'	1:1G:1358:U:O2'	2.19	0.43
1:1G:977:A:H3'	1:1G:977:A:N3	2.34	0.43
1:1G:1178:G:O2'	1:1G:1180:A:N7	2.52	0.43
1:1G:1205:U:H2'	1:1G:1206:G:H8	1.84	0.43
2:12:12:GLU:CD	2:12:15:VAL:H	2.27	0.43
3:22:32:LEU:HD23	3:22:59:ARG:NH1	2.34	0.43
4:32:61:LYS:HD2	4:32:206:PHE:CE2	2.54	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:32:177:ASP:O	4:32:178:VAL:C	2.62	0.43
20:BA:54:LYS:HE3	20:BA:54:LYS:HB3	1.74	0.43
26:14:451:C:H41	26:14:454:A:H5'	1.84	0.43
26:14:491:G:H2'	26:14:492:A:C8	2.54	0.43
26:14:587:C:OP2	37:35:21:ARG:NH2	2.52	0.43
26:14:775:G:C5	26:14:794:G:C8	3.07	0.43
26:14:1052:C:H2'	26:14:1053:C:H5'	2.01	0.43
26:14:1054:A:N3	26:14:1054:A:H2'	2.34	0.43
26:14:1317:A:H2'	26:14:1318:C:C6	2.53	0.43
26:14:1514:U:H2'	26:14:1515:C:C6	2.53	0.43
26:14:2439:A:C8	26:14:2439:A:C5'	3.00	0.43
26:14:2631:G:C6	26:14:2632:A:N7	2.87	0.43
26:14:2845:G:H2'	26:14:2846:G:C8	2.54	0.43
27:1J:78:A:C2	27:1J:99:A:C4	3.06	0.43
27:1J:93:C:H2'	27:1J:94:C:C6	2.51	0.43
28:79:200:LYS:H	28:79:200:LYS:HG2	1.56	0.43
29:19:38:LYS:HD2	29:19:38:LYS:C	2.43	0.43
29:19:53:PHE:C	29:19:218:ARG:HB2	2.44	0.43
29:19:267:SER:O	29:19:268:ARG:HG2	2.18	0.43
30:29:120:TRP:CD1	30:29:155:LYS:HB3	2.53	0.43
33:59:68:THR:O	33:59:71:LEU:HB2	2.18	0.43
40:65:30:ARG:HE	40:65:30:ARG:HB3	1.66	0.43
43:95:35:LEU:O	43:95:37:VAL:HG13	2.18	0.43
50:G5:57:ILE:HG13	50:G5:57:ILE:H	1.57	0.43
53:J5:52:TYR:CD1	53:J5:53:ALA:N	2.87	0.43
1:13:20:U:H2'	1:13:21:G:O4'	2.18	0.42
1:13:404:U:OP1	4:3E:118:ARG:NH1	2.46	0.42
1:13:476:G:N2	1:13:477:G:H1'	2.34	0.42
1:13:593:G:H2'	1:13:594:G:H8	1.83	0.42
1:13:626:U:N3	1:13:627:G:N7	2.66	0.42
1:13:681:C:H2'	1:13:682:G:C8	2.54	0.42
1:13:1149:C:H2'	1:13:1150:U:H6	1.84	0.42
1:13:1298:C:H4'	1:13:1299:A:C4	2.54	0.42
3:2E:131:ARG:HD3	3:2E:166:GLU:HG2	2.01	0.42
4:3E:10:ARG:HG3	4:3E:11:LEU:H	1.80	0.42
5:4E:29:GLY:HA2	5:4E:46:GLY:O	2.18	0.42
5:4E:36:ASP:OD2	5:4E:38:GLN:HB2	2.19	0.42
16:7I:20:VAL:HG21	16:7I:32:TYR:CB	2.49	0.42
17:8I:25:ARG:H	17:8I:25:ARG:HG2	1.71	0.42
20:BI:57:ARG:HH11	20:BI:102:GLY:HA2	1.82	0.42
24:3K:48:C:C5	24:3K:59:A:C6	3.07	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:34:C:O4'	26:1H:34:C:P	2.77	0.42
26:1H:811:U:H3'	37:78:22:GLY:HA2	2.01	0.42
26:1H:937:U:H2'	26:1H:938:G:O4'	2.19	0.42
26:1H:1053:C:H6	26:1H:1107:G:C6	2.37	0.42
26:1H:2070:G:C2	26:1H:2442:C:C2	3.07	0.42
26:1H:2213:U:H1'	49:J8:52:ARG:NH2	2.34	0.42
26:1H:2256:G:H2'	26:1H:2257:U:O4'	2.19	0.42
26:1H:2320:A:H2'	26:1H:2320:A:N3	2.34	0.42
26:1H:2469:A:H2'	38:88:56:ARG:HH21	1.83	0.42
26:1H:2830:G:H5''	26:1H:2830:G:H8	1.84	0.42
26:1H:2867:G:P	41:B8:119:LYS:HZ3	2.39	0.42
30:21:84:PHE:HZ	30:21:91:VAL:HG11	1.84	0.42
31:31:181:LEU:O	31:31:205:ARG:NH2	2.50	0.42
33:51:118:PRO:O	33:51:121:ILE:HB	2.19	0.42
35:58:96:GLU:HB2	35:58:122:VAL:HG12	2.00	0.42
44:E8:7:ALA:HB2	44:E8:50:VAL:HG22	2.01	0.42
51:L8:31:LEU:HB3	51:L8:32:GLN:HG2	2.01	0.42
1:1G:80:G:O2'	1:1G:81:G:OP1	2.35	0.42
1:1G:254:G:OP1	17:8A:67:LYS:O	2.37	0.42
1:1G:604:G:H2'	1:1G:605:U:O4'	2.19	0.42
1:1G:804:U:H5''	1:1G:805:C:OP2	2.19	0.42
1:1G:955:U:H2'	1:1G:956:U:C6	2.54	0.42
1:1G:991:U:H5	1:1G:1212:U:H1'	1.83	0.42
1:1G:1014:A:H8	1:1G:1014:A:O5'	2.02	0.42
1:1G:1055:A:C6	1:1G:1206:G:C4	3.07	0.42
1:1G:1218:C:H2'	1:1G:1219:U:C6	2.54	0.42
1:1G:1525:G:H2'	1:1G:1526:G:O4'	2.18	0.42
10:1A:16:LEU:CD2	10:1A:68:HIS:HB3	2.48	0.42
10:1A:21:GLN:O	10:1A:24:VAL:HG12	2.19	0.42
12:3A:45:PRO:HD3	12:3A:51:ALA:O	2.19	0.42
13:4A:80:ARG:O	13:4A:84:ILE:HB	2.18	0.42
16:7A:74:LEU:O	16:7A:79:VAL:HG23	2.18	0.42
19:AA:35:SER:O	19:AA:71:LEU:HD23	2.19	0.42
26:14:51:G:N3	26:14:119:A:C2	2.87	0.42
26:14:388:G:O2'	26:14:389:G:N7	2.47	0.42
26:14:587:C:H4'	26:14:588:U:H6	1.83	0.42
26:14:1686:C:H2'	26:14:1687:G:O4'	2.19	0.42
26:14:1697:G:OP2	26:14:1698:A:O2'	2.31	0.42
26:14:2723:C:O5'	26:14:2723:C:H6	2.02	0.42
26:14:2728:U:O2'	26:14:2729:G:H5'	2.19	0.42
26:14:2729:G:H1'	30:29:187:ALA:HB3	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:1J:40:U:O2	27:1J:43:C:H5''	2.18	0.42
28:79:7:TYR:CD1	28:79:10:LEU:HB2	2.54	0.42
29:19:267:SER:O	29:19:269:PHE:N	2.52	0.42
30:29:53:PRO:CA	30:29:74:PRO:HB3	2.49	0.42
41:75:45:PHE:CE2	41:75:74:ARG:HG3	2.54	0.42
42:85:66:ASN:ND2	42:85:70:ARG:HE	2.17	0.42
43:95:18:LEU:O	43:95:96:ILE:HG12	2.18	0.42
47:D5:94:GLU:N	47:D5:130:PRO:HD2	2.35	0.42
49:F5:40:ARG:NH2	49:F5:42:GLN:HG2	2.34	0.42
1:13:376:G:OP2	16:7I:67:THR:HG21	2.19	0.42
1:13:511:C:C2	1:13:512:U:C5	3.07	0.42
1:13:1028(A):C:H42	1:13:1032(A):G:H22	1.68	0.42
1:13:1131:G:O2'	1:13:1132:C:H5'	2.20	0.42
1:13:1366:C:H2'	1:13:1367:C:H6	1.84	0.42
2:1E:131:PRO:O	2:1E:135:GLN:HB2	2.19	0.42
12:3I:45:PRO:HD3	12:3I:51:ALA:O	2.19	0.42
16:7I:20:VAL:HG21	16:7I:32:TYR:CD2	2.53	0.42
16:7I:74:LEU:HA	16:7I:74:LEU:HD23	1.80	0.42
19:AI:6:LYS:HD2	19:AI:6:LYS:HA	1.71	0.42
20:BI:63:ILE:CG2	20:BI:77:ALA:HB1	2.49	0.42
24:3K:29:U:C2'	24:3K:30:G:H5'	2.49	0.42
24:3K:68:G:H2'	24:3K:69:A:C8	2.54	0.42
25:4K:11:U:OP2	25:4K:11:U:H6	2.02	0.42
26:1H:127:A:H5''	26:1H:128:C:C6	2.53	0.42
26:1H:557:U:H2'	26:1H:558:G:C8	2.54	0.42
26:1H:674:G:O2'	31:3I:74:ARG:CD	2.66	0.42
26:1H:686:G:H4'	26:1H:687:C:OP2	2.19	0.42
26:1H:1052:C:O2'	26:1H:1109:C:N3	2.51	0.42
26:1H:1375:C:H2'	26:1H:1376:C:H6	1.84	0.42
26:1H:1534:G:N2	26:1H:1538:G:N3	2.65	0.42
26:1H:1568:G:N7	29:11:28:GLU:HG3	2.35	0.42
26:1H:1599:C:P	45:F8:36:LYS:HB2	2.59	0.42
26:1H:1664:A:N6	26:1H:1665:A:N6	2.68	0.42
26:1H:1790:C:H5''	26:1H:1791:A:OP1	2.19	0.42
26:1H:2153:G:C2	26:1H:2154:G:C6	3.07	0.42
26:1H:2187:G:C2	26:1H:2188:C:C2	3.07	0.42
26:1H:2593:U:H2'	26:1H:2594:C:H6	1.83	0.42
26:1H:2636:U:H3	26:1H:2782:G:H1	1.68	0.42
27:16:13:A:O2'	27:16:14:U:H3'	2.18	0.42
32:4I:47:LYS:HD2	32:4I:81:LYS:CB	2.46	0.42
35:58:65:LYS:HB3	35:58:69:GLN:HG3	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:98:9:LYS:HA	39:98:17:ARG:CD	2.49	0.42
39:98:51:LEU:HD23	39:98:51:LEU:HA	1.71	0.42
40:A8:20:ARG:NH1	48:I8:47:PRO:O	2.52	0.42
44:E8:78:GLU:OE1	44:E8:99:ARG:HG2	2.19	0.42
46:G8:10:GLY:HA3	46:G8:106:LEU:O	2.19	0.42
46:G8:101:LYS:C	46:G8:102:CYS:SG	3.03	0.42
47:H8:100:VAL:HG21	47:H8:134:PRO:HG2	2.01	0.42
1:1G:191(F):U:H2'	1:1G:191:G:C8	2.54	0.42
1:1G:537:G:H5''	12:3A:113:ARG:NH1	2.34	0.42
1:1G:641:U:O3'	1:1G:642:A:H8	2.02	0.42
1:1G:1052:U:O2'	1:1G:1055:A:OP2	2.31	0.42
1:1G:1119:C:OP1	9:82:83:ARG:NH1	2.52	0.42
1:1G:1275:A:C6	1:1G:1276:G:C6	3.07	0.42
1:1G:1489:G:H2'	1:1G:1490:C:O4'	2.19	0.42
4:32:86:LYS:HE2	4:32:86:LYS:N	2.31	0.42
6:52:33:TYR:CZ	6:52:78:GLU:HG3	2.54	0.42
7:62:26:PHE:CE1	7:62:30:ILE:HD11	2.54	0.42
7:62:93:PRO:O	7:62:97:GLN:N	2.49	0.42
10:1A:13:HIS:CD2	10:1A:14:LYS:N	2.87	0.42
13:4A:33:ALA:O	13:4A:37:THR:HB	2.18	0.42
16:7A:48:TRP:CD1	16:7A:48:TRP:N	2.87	0.42
19:AA:11:VAL:HG12	19:AA:12:ASP:O	2.19	0.42
22:1L:24:G:C2	22:1L:25:C:C2	3.07	0.42
22:1L:44:U:H5''	22:1L:45:G:OP2	2.19	0.42
23:2L:69:C:H2'	23:2L:70:C:C6	2.54	0.42
26:14:142:G:OP1	26:14:1598:C:H1'	2.19	0.42
26:14:273(C):C:H2'	26:14:273(D):C:O4'	2.19	0.42
26:14:494:G:OP1	44:A5:8:ARG:HD3	2.18	0.42
26:14:860:U:C1'	26:14:2268:A:H5'	2.49	0.42
26:14:1858:G:H2'	26:14:1883:G:H22	1.85	0.42
26:14:2212:A:H1'	26:14:2215:G:C5	2.54	0.42
26:14:2892:A:H3'	26:14:2893:G:H4'	2.00	0.42
28:79:53:ARG:HE	28:79:54:SER:N	2.13	0.42
30:29:27:LEU:HA	30:29:180:ASN:O	2.19	0.42
30:29:105:THR:HG21	30:29:164:ARG:HE	1.84	0.42
31:39:146:ALA:CB	31:39:148:LEU:HG	2.49	0.42
33:59:9:ILE:HB	33:59:51:ARG:HB3	2.01	0.42
34:69:144:VAL:HG23	34:69:144:VAL:O	2.19	0.42
35:15:21:LYS:C	35:15:61:ARG:HB2	2.44	0.42
36:25:17:ARG:NH1	36:25:47:ILE:HD11	2.34	0.42
37:35:95:VAL:HA	37:35:99:LEU:HD13	2.00	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:75:91:ARG:HD3	41:75:120:ARG:HB3	2.01	0.42
46:C5:87:LYS:NZ	46:C5:88:LYS:O	2.47	0.42
47:D5:53:ILE:CG1	47:D5:54:HIS:HD2	2.17	0.42
48:E5:46:LYS:HA	48:E5:47:PRO:HD3	1.78	0.42
1:13:62:U:O2'	1:13:379:C:O2	2.34	0.42
1:13:186(E):C:N3	1:13:191(C):G:C2	2.87	0.42
1:13:259:G:H2'	1:13:260:G:O4'	2.19	0.42
1:13:558:G:C5	1:13:559:A:C2	3.07	0.42
1:13:998(A):C:H2'	1:13:999:U:C6	2.54	0.42
2:1E:28:PHE:HE2	2:1E:189:ASP:C	2.26	0.42
2:1E:136:VAL:O	2:1E:140:HIS:N	2.41	0.42
3:2E:47:LEU:N	3:2E:47:LEU:HD12	2.34	0.42
8:7E:109:ILE:HG13	8:7E:120:THR:HB	2.02	0.42
17:8I:22:LEU:HD13	17:8I:41:LYS:HG3	2.01	0.42
21:1F:3:LYS:HB3	21:1F:14:TRP:CD1	2.54	0.42
22:1K:56:C:N4	26:1H:897:C:O2'	2.52	0.42
22:1K:67:C:H2'	22:1K:68:G:C8	2.54	0.42
23:2K:20:G:C4	23:2K:58:A:C2	3.07	0.42
24:3K:22:G:N3	24:3K:22:G:H2'	2.34	0.42
26:1H:53:A:C8	26:1H:54:G:C8	3.07	0.42
26:1H:254:G:O2'	26:1H:384:U:H5'	2.18	0.42
26:1H:270(E):G:C6	26:1H:270(F):U:C4	3.07	0.42
26:1H:731:C:C2	26:1H:732:C:C5	3.07	0.42
26:1H:857:C:H4'	48:I8:23:VAL:HG21	2.00	0.42
26:1H:1144:G:C6	26:1H:1145:C:C4	3.07	0.42
26:1H:1166:C:H2'	26:1H:1167:U:C6	2.55	0.42
26:1H:1322:A:H2'	26:1H:1323:U:C6	2.55	0.42
26:1H:1355:G:H2'	26:1H:1356:G:O4'	2.20	0.42
26:1H:1392:A:C6	26:1H:1393:A:N1	2.87	0.42
26:1H:1826:G:H4'	29:11:242:ARG:NE	2.34	0.42
26:1H:1899:G:C2	26:1H:1903:G:C6	3.07	0.42
26:1H:2488:A:H2'	26:1H:2489:G:O4'	2.19	0.42
26:1H:2531:A:H2'	26:1H:2532:G:C8	2.54	0.42
26:1H:2636:U:P	30:21:79:ARG:HA	2.59	0.42
26:1H:2692:C:OP1	26:1H:2871:C:H5'	2.20	0.42
26:1H:2726:U:H4'	36:68:1:MET:HE1	2.00	0.42
28:71:31:GLU:H	28:71:31:GLU:HG2	1.65	0.42
28:71:207:THR:O	28:71:210:ARG:NH1	2.49	0.42
29:11:77:ALA:HB3	29:11:117:VAL:HG23	2.02	0.42
31:31:183:VAL:O	31:31:187:VAL:HG23	2.19	0.42
35:58:65:LYS:HB2	35:58:65:LYS:HE3	1.76	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:78:17:LYS:H	37:78:17:LYS:HG3	1.71	0.42
44:E8:18:ARG:NH1	44:E8:76:VAL:O	2.50	0.42
53:N8:18:ALA:O	53:N8:21:SER:OG	2.29	0.42
54:P8:30:VAL:O	54:P8:34:ARG:HG3	2.19	0.42
1:1G:15:G:H2'	1:1G:16:A:O4'	2.19	0.42
1:1G:32:A:C2	1:1G:33:A:C4	3.06	0.42
1:1G:131:C:H2'	1:1G:132:C:C6	2.54	0.42
1:1G:619:U:O2	4:32:135:LEU:HD21	2.19	0.42
1:1G:803:G:C6	1:1G:804:U:C4	3.07	0.42
1:1G:1122:U:N3	1:1G:1123:A:N7	2.67	0.42
1:1G:1178:G:H5''	9:82:93:ARG:NH2	2.33	0.42
1:1G:1246:C:H2'	1:1G:1247:U:O4'	2.19	0.42
1:1G:1298:C:H4'	1:1G:1299:A:C5	2.53	0.42
1:1G:1298:C:HO2'	1:1G:1299:A:P	2.42	0.42
3:22:61:ALA:C	3:22:63:ASN:H	2.27	0.42
3:22:90:GLU:OE2	3:22:90:GLU:N	2.45	0.42
7:62:116:ALA:HA	7:62:119:ARG:NE	2.25	0.42
10:1A:75:ILE:O	10:1A:77:PRO:HD3	2.18	0.42
18:9A:56:THR:HB	18:9A:58:LEU:HD12	2.02	0.42
26:14:270(T):G:C6	26:14:270(U):C:C4	3.08	0.42
26:14:855:G:C6	26:14:856:C:C4	3.07	0.42
26:14:870:A:H2'	26:14:871:U:O4'	2.20	0.42
26:14:917:A:H2'	26:14:917:A:N3	2.35	0.42
26:14:922:U:H2'	26:14:923:C:C6	2.54	0.42
26:14:933:A:C5	26:14:934:G:C8	3.07	0.42
26:14:1005:C:O2	26:14:1143:A:C6	2.72	0.42
26:14:1161:C:H1'	43:95:8:GLY:O	2.19	0.42
26:14:1453:A:O2'	26:14:1454:U:H2'	2.19	0.42
26:14:1556:C:H2'	26:14:1557:C:H6	1.84	0.42
26:14:1592:C:H2'	26:14:1593:G:C8	2.54	0.42
26:14:1670:C:O2	30:29:129:HIS:NE2	2.44	0.42
26:14:2432:A:H2'	26:14:2433:A:H8	1.82	0.42
26:14:2855:C:H2'	26:14:2856:C:H6	1.83	0.42
26:14:2892:A:C5	26:14:2893:G:H1'	2.54	0.42
27:1J:79:C:H2'	27:1J:80:U:O4'	2.20	0.42
31:39:132:VAL:HG13	31:39:133:ASN:ND2	2.34	0.42
31:39:143:ALA:HB1	31:39:148:LEU:HB2	2.02	0.42
34:69:78:THR:HG21	34:69:104:GLN:HG3	2.01	0.42
37:35:107:LYS:O	37:35:109:GLY:N	2.49	0.42
39:55:87:TYR:CE1	39:55:117:VAL:HG12	2.55	0.42
39:55:87:TYR:HE1	39:55:117:VAL:HG12	1.83	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:75:16:ARG:NH2	41:75:18:ASP:OD2	2.51	0.42
42:85:41:ALA:O	42:85:45:TYR:CD1	2.73	0.42
48:E5:72:ARG:CB	48:E5:75:LEU:HB2	2.47	0.42
1:13:10:A:OP2	5:4E:126:ARG:HD3	2.20	0.42
1:13:262:A:H2'	1:13:263:A:H8	1.80	0.42
1:13:939:G:H5'	7:6E:102:ARG:CZ	2.50	0.42
1:13:1009:G:C2	1:13:1010:G:C8	3.07	0.42
1:13:1298:C:P	7:6E:114:ARG:HH22	2.43	0.42
2:1E:178:ARG:HH12	2:1E:196:LEU:C	2.25	0.42
2:1E:222:ILE:HG13	2:1E:223:ILE:H	1.84	0.42
4:3E:147:ALA:HB2	4:3E:182:LYS:HB3	2.00	0.42
4:3E:155:LEU:O	4:3E:156:GLU:C	2.61	0.42
10:1I:46:ARG:HB2	10:1I:46:ARG:NH1	2.34	0.42
12:3I:64:TYR:O	12:3I:65:GLU:HB3	2.20	0.42
16:7I:33:ILE:HG13	16:7I:33:ILE:H	1.69	0.42
20:BI:30:LYS:NZ	20:BI:80:ARG:NH1	2.67	0.42
20:BI:46:GLU:CB	20:BI:48:LYS:HG3	2.49	0.42
24:3K:56:C:C2'	24:3K:57:G:H8	2.31	0.42
24:3K:59:A:H5'	24:3K:60:U:C5	2.52	0.42
26:1H:15:G:H4'	53:N8:21:SER:HB3	2.01	0.42
26:1H:242:G:H5'	55:Q8:64:TYR:CE2	2.55	0.42
26:1H:308:G:N2	26:1H:477:A:C8	2.88	0.42
26:1H:992:C:C2	26:1H:993:G:C8	3.07	0.42
26:1H:1006:C:H5'	35:58:28:THR:HG23	2.01	0.42
26:1H:1756:G:H4'	26:1H:1758:G:O4'	2.20	0.42
26:1H:1929:G:H4'	26:1H:1930:G:OP1	2.20	0.42
39:98:81:ASP:O	39:98:85:PRO:HG2	2.19	0.42
40:A8:11:LYS:HB2	40:A8:11:LYS:HE3	1.85	0.42
46:G8:63:LYS:HD2	46:G8:64:GLU:H	1.83	0.42
1:1G:73:G:C6	1:1G:74:C:C4	3.07	0.42
1:1G:129(A):G:C2	1:1G:188:U:O2'	2.65	0.42
1:1G:731:G:O2'	1:1G:732:C:H5'	2.20	0.42
1:1G:746:A:H2'	1:1G:747:C:C6	2.54	0.42
1:1G:1106:G:H5''	3:22:172:ARG:CG	2.49	0.42
1:1G:1424:C:H2'	1:1G:1425:U:O4'	2.19	0.42
1:1G:1468:A:H5''	1:1G:1469:G:OP2	2.18	0.42
1:1G:1534:A:H2'	1:1G:1534:A:N3	2.34	0.42
2:12:97:TRP:CE2	2:12:101:MET:HG3	2.55	0.42
5:42:78:HIS:CE1	5:42:80:ILE:HG23	2.55	0.42
6:52:77:ARG:HH21	6:52:78:GLU:HG2	1.85	0.42
14:5A:9:LYS:CA	14:5A:12:ARG:NH1	2.81	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:7A:23:ASP:OD1	16:7A:25:ARG:HG3	2.19	0.42
17:8A:4:LYS:O	17:8A:60:ILE:HD12	2.19	0.42
23:2L:25:U:O2	26:14:1923:U:H5''	2.19	0.42
26:14:270(E):G:C6	26:14:270(F):U:C4	3.07	0.42
26:14:959:A:N6	26:14:960:A:N1	2.67	0.42
26:14:962:G:H2'	26:14:963:U:O4'	2.19	0.42
26:14:1167:U:C2	26:14:1183:G:N2	2.87	0.42
26:14:1550:C:OP1	26:14:1727:U:O2'	2.33	0.42
26:14:2198:A:C2	34:69:29:TYR:HB2	2.54	0.42
26:14:2646:C:H2'	26:14:2647:U:O4'	2.20	0.42
30:29:102:VAL:HB	30:29:199:ARG:O	2.18	0.42
31:39:68:LYS:HG3	31:39:69:HIS:CE1	2.54	0.42
31:39:93:LYS:HA	31:39:93:LYS:HD2	1.80	0.42
31:39:123:LEU:C	31:39:125:LEU:H	2.20	0.42
35:15:128:HIS:NE2	35:15:130:HIS:HB3	2.34	0.42
41:75:53:ARG:O	41:75:53:ARG:HG3	2.19	0.42
46:C5:88:LYS:O	46:C5:89:PHE:CD1	2.71	0.42
1:13:104:G:C2	1:13:105:G:C8	3.07	0.42
1:13:753:A:H4'	1:13:754:C:H5''	2.02	0.42
1:13:1051:C:H2'	1:13:1052:U:C6	2.55	0.42
1:13:1288:A:N1	1:13:1371:G:H1'	2.35	0.42
20:BI:10:LEU:HG	20:BI:12:ALA:H	1.84	0.42
24:3K:54:U:H4'	28:71:167:LYS:HZ1	1.84	0.42
26:1H:7:G:H2'	26:1H:8:A:O4'	2.19	0.42
26:1H:16:G:H1	26:1H:524:U:H3	1.68	0.42
26:1H:46:C:H2'	26:1H:47:C:H6	1.83	0.42
26:1H:126:A:O5'	54:P8:19:ARG:HG3	2.19	0.42
26:1H:270(G):C:H2'	26:1H:270(H):C:C6	2.54	0.42
26:1H:275:G:N7	26:1H:363:G:C2	2.88	0.42
26:1H:281:G:H1'	26:1H:359:A:H61	1.84	0.42
26:1H:665:C:H2'	26:1H:666:G:H8	1.83	0.42
26:1H:722:A:H2'	26:1H:723:G:C8	2.54	0.42
26:1H:1053:C:C6	26:1H:1107:G:C6	3.07	0.42
26:1H:1142(A):A:C4	26:1H:1144:G:C8	3.07	0.42
26:1H:1279:G:N2	26:1H:1292:U:C2	2.88	0.42
26:1H:1364:G:OP2	49:J8:61:ARG:NH2	2.52	0.42
26:1H:2144:U:H4'	26:1H:2144:U:OP1	2.19	0.42
26:1H:2262:U:O2'	26:1H:2263:C:H5'	2.20	0.42
26:1H:2620:C:O2'	30:21:119:ARG:NH2	2.40	0.42
26:1H:2774:C:H2'	26:1H:2775:A:O4'	2.18	0.42
29:11:193:VAL:H	29:11:193:VAL:HG12	1.60	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:31:179:GLU:H	31:31:179:GLU:CD	2.24	0.42
32:41:8:LYS:O	32:41:11:TYR:HB3	2.20	0.42
32:41:58:GLN:NE2	32:41:59:GLU:HG3	2.35	0.42
34:61:83:ALA:HB2	34:61:144:VAL:HG23	2.01	0.42
36:68:22:ILE:HD13	36:68:22:ILE:HG21	1.72	0.42
36:68:34:THR:HG22	36:68:37:ASP:OD2	2.19	0.42
41:B8:27:THR:CG2	41:B8:90:GLN:HB3	2.48	0.42
47:H8:70:LEU:HD23	47:H8:70:LEU:HA	1.87	0.42
54:P8:5:TRP:HA	54:P8:5:TRP:CE3	2.53	0.42
1:1G:17:U:H2'	1:1G:18:C:C6	2.55	0.42
1:1G:287:U:H2'	1:1G:288:A:C8	2.53	0.42
1:1G:573:A:N3	1:1G:883:C:O2'	2.48	0.42
1:1G:579:G:C6	1:1G:580:U:C4	3.08	0.42
1:1G:599:C:H2'	1:1G:600:C:H6	1.84	0.42
4:32:22:LYS:N	4:32:26:CYS:SG	2.84	0.42
4:32:154:ASN:O	4:32:159:ARG:HB2	2.20	0.42
4:32:173:TRP:CD2	4:32:189:PRO:HB3	2.55	0.42
5:42:144:THR:O	5:42:148:VAL:HG23	2.19	0.42
13:4A:8:GLU:CD	13:4A:10:PRO:HD3	2.45	0.42
14:5A:29:ARG:CG	14:5A:31:ARG:H	2.23	0.42
14:5A:53:LEU:HD23	14:5A:53:LEU:HA	1.70	0.42
16:7A:43:LYS:HG2	16:7A:48:TRP:CZ3	2.54	0.42
18:9A:84:LYS:H	18:9A:84:LYS:HG2	1.51	0.42
26:14:28:A:O2'	26:14:583:G:H5'	2.19	0.42
26:14:196:A:N3	26:14:196:A:H2'	2.34	0.42
26:14:247:G:O6	55:M5:12:LYS:NZ	2.49	0.42
26:14:752:A:H4'	26:14:753:C:H5'	2.02	0.42
26:14:875:G:N3	26:14:875:G:H2'	2.34	0.42
26:14:1049:C:H5''	26:14:1051:G:H22	1.84	0.42
26:14:1321:A:H2'	26:14:1322:A:O4'	2.20	0.42
26:14:1405:U:H2'	26:14:1406:U:C6	2.55	0.42
26:14:1676:A:OP2	60:14:3423:HOH:O	2.21	0.42
26:14:1921:G:H2'	26:14:1922:G:C8	2.53	0.42
26:14:2230:G:C2'	26:14:2231:C:H5'	2.48	0.42
26:14:2392:A:H2	26:14:2424:C:N4	2.06	0.42
26:14:2418:A:H2'	26:14:2419:U:O4'	2.20	0.42
29:19:182:LEU:CB	29:19:271:ILE:HG13	2.50	0.42
30:29:79:ARG:N	30:29:79:ARG:HD2	2.34	0.42
31:39:25:PRO:O	31:39:27:GLU:HG3	2.20	0.42
31:39:129:PHE:HA	31:39:142:TRP:CD1	2.54	0.42
31:39:132:VAL:HG22	31:39:133:ASN:H	1.85	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:25:13:ASN:HD21	36:25:97:ARG:H	1.66	0.42
37:35:41:ARG:N	37:35:41:ARG:HD2	2.34	0.42
37:35:68:GLN:OE1	37:35:68:GLN:HA	2.19	0.42
37:35:84:ASN:OD1	37:35:115:LEU:HB2	2.20	0.42
37:35:101:VAL:N	37:35:106:LEU:HD23	2.34	0.42
39:55:54:LEU:HD12	39:55:62:ALA:HA	2.00	0.42
44:A5:34:ASN:OD1	53:J5:39:MET:HG3	2.19	0.42
45:B5:72:LYS:HE3	45:B5:73:ARG:O	2.20	0.42
1:13:148:G:H1	1:13:174:C:H42	1.68	0.42
1:13:255:G:C5	1:13:256:U:C5	3.07	0.42
1:13:279:A:C5	17:8I:98:LEU:HD12	2.55	0.42
1:13:359:U:H2'	1:13:360:A:C8	2.55	0.42
1:13:369:C:O2	1:13:392:G:N2	2.37	0.42
1:13:657:G:C1'	15:6I:28:GLN:HE21	2.32	0.42
1:13:1164:G:C6	1:13:1165:C:C4	3.08	0.42
1:13:1256:A:N6	1:13:1278:U:OP2	2.30	0.42
1:13:1272:G:C6	1:13:1273:G:C5	3.07	0.42
1:13:1536:C:N3	25:4K:9:G:N2	2.67	0.42
2:1E:176:GLU:O	2:1E:180:LEU:HG	2.19	0.42
3:2E:15:THR:HG21	3:2E:181:ASN:HA	2.01	0.42
6:5E:22:GLU:OE1	6:5E:84:ASN:HB2	2.20	0.42
17:8I:58:GLU:HB2	17:8I:74:LEU:HB3	2.00	0.42
20:BI:66:ALA:HB1	20:BI:71:THR:HB	2.01	0.42
22:1K:37:T6A:N1	22:1K:37:T6A:N11	2.56	0.42
24:3K:5:C:H2'	24:3K:6:G:N7	2.34	0.42
24:3K:13:C:C2'	24:3K:14:A:H5'	2.49	0.42
26:1H:182:A:O2'	26:1H:183:C:H5'	2.19	0.42
26:1H:531:C:H4'	26:1H:532:A:H5''	2.01	0.42
26:1H:675:A:C8	26:1H:804:A:C6	3.08	0.42
26:1H:860:U:H5	26:1H:917:A:N1	2.17	0.42
26:1H:1042:G:C6	26:1H:1043:C:C4	3.08	0.42
26:1H:1213:A:H1'	26:1H:1238:G:N3	2.34	0.42
26:1H:1516:U:C2	26:1H:1517:G:C8	3.08	0.42
26:1H:1831:G:C4	26:1H:1975:G:N2	2.88	0.42
26:1H:2184:G:C2	26:1H:2185:C:C2	3.07	0.42
26:1H:2394:C:H2'	26:1H:2395:C:C6	2.55	0.42
29:11:37:LEU:C	29:11:37:LEU:HD12	2.45	0.42
30:21:38:THR:H	30:21:42:ASP:HB2	1.84	0.42
31:31:140:LEU:HD13	31:31:170:LEU:HD11	2.00	0.42
32:41:66:GLN:HA	52:M8:6:HIS:NE2	2.34	0.42
32:41:101:ILE:HD12	32:41:101:ILE:C	2.45	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:51:96:ALA:HB1	33:51:103:LEU:HD11	2.02	0.42
35:58:90:MET:SD	35:58:97:ARG:HD2	2.59	0.42
37:78:62:LEU:HA	37:78:63:PRO:HD3	1.91	0.42
41:B8:62:THR:CG2	41:B8:75:ILE:HG12	2.50	0.42
43:D8:45:THR:O	43:D8:47:VAL:HG12	2.20	0.42
44:E8:110:LYS:HD3	44:E8:110:LYS:HA	1.85	0.42
47:H8:59:LEU:HA	47:H8:59:LEU:HD23	1.68	0.42
53:N8:40:LYS:HE2	53:N8:46:CYS:CA	2.50	0.42
1:1G:867:G:OP2	1:1G:867:G:H8	2.01	0.42
1:1G:1100:C:C2	1:1G:1102:A:H5'	2.55	0.42
1:1G:1157:A:O4'	1:1G:1158:C:C6	2.73	0.42
4:32:141:ARG:HB2	4:32:142:PRO:HD2	2.02	0.42
5:42:91:LEU:CD2	5:42:120:THR:HG22	2.50	0.42
16:7A:5:ARG:HE	16:7A:22:THR:CG2	2.33	0.42
19:AA:7:LYS:HB2	19:AA:8:GLY:HA2	2.00	0.42
20:BA:31:SER:HA	20:BA:34:LYS:HE2	2.00	0.42
22:1L:26:A:H5'	22:1L:27:G:OP2	2.19	0.42
26:14:10:G:O2'	26:14:2801:A:OP1	2.31	0.42
26:14:95:G:H4'	50:G5:46:GLN:CB	2.49	0.42
26:14:730:C:H2'	26:14:731:C:H5'	1.99	0.42
26:14:733:G:O6	26:14:761:A:C8	2.73	0.42
26:14:864:G:O2'	26:14:865:C:H5'	2.20	0.42
26:14:1029:A:OP2	26:14:1029:A:H8	2.03	0.42
26:14:1225:C:H4'	43:95:85:LYS:CB	2.50	0.42
26:14:1743:G:C2	26:14:1746:G:C8	3.07	0.42
26:14:2488:A:H2'	26:14:2489:G:O4'	2.20	0.42
26:14:2795:G:H2'	26:14:2795:G:N3	2.35	0.42
29:19:50:THR:O	29:19:51:VAL:HG23	2.20	0.42
31:39:129:PHE:CD2	31:39:163:VAL:HG21	2.55	0.42
31:39:185:ASP:HA	31:39:188:ARG:HB3	2.02	0.42
32:49:117:PHE:O	32:49:117:PHE:CG	2.72	0.42
35:15:85:ILE:HD12	35:15:85:ILE:O	2.19	0.42
38:45:19:GLY:O	38:45:98:LYS:HD2	2.19	0.42
39:55:103:ARG:NH1	39:55:110:PRO:HD3	2.34	0.42
43:95:34:GLU:OE1	43:95:58:VAL:HG22	2.19	0.42
47:D5:44:PHE:CZ	47:D5:86:VAL:HG21	2.55	0.42
1:13:294:U:O4	1:13:295:C:N4	2.53	0.42
1:13:407:G:O2'	4:3E:116:GLN:HG3	2.19	0.42
1:13:648:A:N1	1:13:649:G:C5	2.88	0.42
1:13:745:C:H5''	1:13:851:G:H1'	2.01	0.42
1:13:843:U:O2	1:13:843:U:H2'	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:883:C:C2'	1:13:884:U:H5'	2.50	0.42
1:13:1364:U:O2'	1:13:1365:G:H5'	2.19	0.42
1:13:1452:C:H5''	1:13:1454:G:C8	2.54	0.42
2:1E:92:TYR:CE2	2:1E:151:GLY:HA3	2.54	0.42
3:2E:18:TRP:CZ2	14:5I:55:GLY:HA2	2.54	0.42
3:2E:73:PRO:O	3:2E:77:ILE:HG13	2.19	0.42
3:2E:123:GLN:NE2	3:2E:136:GLN:NE2	2.64	0.42
4:3E:31:CYS:HA	58:3E:302:SF4:S3	2.60	0.42
4:3E:192:GLU:OE1	4:3E:192:GLU:N	2.51	0.42
8:7E:2:LEU:HD23	8:7E:2:LEU:HA	1.85	0.42
11:2I:85:ARG:HG2	11:2I:112:THR:H	1.85	0.42
17:8I:83:ASP:OD1	17:8I:83:ASP:N	2.52	0.42
23:2K:1:C:C2	23:2K:2:G:C8	3.08	0.42
25:4K:20:A:C2'	25:4K:21:A:H5'	2.50	0.42
26:1H:72:U:H1'	50:K8:58:ALA:CB	2.50	0.42
26:1H:347:A:H2'	26:1H:348:G:C8	2.54	0.42
26:1H:531:C:C5	26:1H:2035:G:C2	3.07	0.42
26:1H:1171:G:C5	26:1H:1174:A:N6	2.88	0.42
26:1H:1181:C:O2'	26:1H:1182:A:H5'	2.20	0.42
26:1H:1188:U:C5'	43:D8:79:VAL:HG22	2.50	0.42
26:1H:1753:G:H2'	26:1H:1755:A:OP2	2.20	0.42
26:1H:1952:A:C2	36:68:22:ILE:HG23	2.53	0.42
26:1H:2019:A:C6	26:1H:2020:A:N7	2.88	0.42
26:1H:2364:C:H4'	48:I8:56:ASP:OD1	2.19	0.42
27:16:69:G:C5	27:16:70:C:C5	3.07	0.42
32:41:139:LEU:HA	32:41:144:ILE:HG21	2.02	0.42
35:58:127:ASP:O	35:58:128:HIS:HB3	2.19	0.42
44:E8:4:LYS:NZ	44:E8:6:ILE:HD11	2.34	0.42
46:G8:49:VAL:HG11	46:G8:61:ILE:HD13	2.01	0.42
47:H8:109:ALA:HB3	47:H8:142:SER:O	2.19	0.42
49:J8:4:VAL:HG23	49:J8:10:LYS:O	2.18	0.42
52:M8:37:SER:OG	52:M8:42:PHE:HD1	1.94	0.42
53:N8:41:PRO:HG2	53:N8:44:THR:OG1	2.20	0.42
1:1G:335:C:O2	1:1G:1433:A:H2	2.02	0.42
1:1G:608:A:H2'	1:1G:609:A:O4'	2.19	0.42
1:1G:861:G:H2'	1:1G:862:C:C6	2.54	0.42
1:1G:861:G:O2'	1:1G:862:C:H5'	2.20	0.42
1:1G:1048:G:O4'	1:1G:1215:G:H4'	2.19	0.42
1:1G:1127:G:H22	1:1G:1144:G:H1	1.66	0.42
1:1G:1158:C:HO2'	2:12:133:LYS:HZ2	1.58	0.42
1:1G:1516:G:H2'	1:1G:1518:A:OP2	2.20	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:12:219:VAL:HG23	2:12:221:LEU:H	1.84	0.42
5:42:53:LEU:O	5:42:57:LYS:HB2	2.19	0.42
5:42:143:ARG:HG3	8:72:77:GLU:OE2	2.19	0.42
8:72:20:TYR:HA	8:72:65:TYR:CZ	2.55	0.42
17:8A:59:ILE:CG2	17:8A:71:PHE:HB3	2.49	0.42
19:AA:40:ILE:HA	19:AA:44:MET:SD	2.60	0.42
21:1B:6:ARG:H	21:1B:6:ARG:HG3	1.70	0.42
22:1L:57:G:H2'	22:1L:58:A:H5'	2.02	0.42
24:3L:2:G:P	24:3L:2:G:H8	2.43	0.42
26:14:270(H):C:H2'	26:14:270(I):G:H8	1.83	0.42
26:14:483:A:H3'	26:14:484:C:H6	1.85	0.42
26:14:1073:A:C5	26:14:1074:G:H8	2.37	0.42
26:14:1142(A):A:C5	26:14:1144:G:C5	3.08	0.42
26:14:1410:G:N2	26:14:1593:G:C4	2.88	0.42
26:14:1497:U:O2'	26:14:1578:U:OP1	2.37	0.42
26:14:1790:C:H2'	26:14:1791:A:C5	2.54	0.42
26:14:1993:U:H4'	30:29:128:SER:HB3	2.02	0.42
26:14:2453:A:O2'	26:14:2572:A:H1'	2.20	0.42
26:14:2543:G:H21	26:14:2646:C:H5''	1.85	0.42
26:14:2563:U:H2'	26:14:2565:A:OP2	2.20	0.42
26:14:2629:A:H3'	26:14:2629:A:OP2	2.20	0.42
26:14:2822:G:P	30:29:110:GLY:HA3	2.60	0.42
29:19:158:ALA:O	29:19:159:ALA:C	2.63	0.42
29:19:242:ARG:HH11	29:19:242:ARG:N	2.14	0.42
30:29:57:LYS:HA	30:29:57:LYS:HD3	1.81	0.42
31:39:38:ARG:NE	31:39:99:TYR:HH	1.97	0.42
34:69:88:ILE:O	34:69:121:LYS:NZ	2.49	0.42
41:75:129:ARG:HA	41:75:132:LYS:HE3	2.02	0.42
46:C5:14:LEU:HD23	46:C5:15:VAL:N	2.34	0.42
53:J5:45:VAL:HG12	53:J5:56:LYS:HD2	2.01	0.42
55:M5:7:HIS:ND1	55:M5:7:HIS:O	2.52	0.42
1:13:266:G:O2'	17:8I:67:LYS:HD3	2.20	0.42
1:13:375:U:H5''	16:7I:6:LEU:HD12	2.02	0.42
1:13:554:C:H2'	1:13:555:C:H6	1.83	0.42
1:13:947:G:H2'	1:13:948:C:C6	2.55	0.42
1:13:964:A:HO2'	10:1I:55:LYS:HE3	1.84	0.42
1:13:993:G:H2'	1:13:993:G:N3	2.35	0.42
1:13:1028(B):C:C4	1:13:1032(B):G:C6	3.07	0.42
1:13:1133:G:H2'	1:13:1134:G:H8	1.83	0.42
1:13:1151:A:O2'	1:13:1152:A:H8	2.02	0.42
1:13:1392:G:O2'	1:13:1393:U:H5'	2.18	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:1466:C:H2'	1:13:1467:G:O4'	2.20	0.42
2:1E:185:ILE:HA	2:1E:199:TYR:O	2.19	0.42
3:2E:113:ALA:HB3	3:2E:114:PRO:HD3	2.02	0.42
7:6E:31:MET:HE1	7:6E:36:LYS:NZ	2.34	0.42
9:8E:18:PHE:O	9:8E:61:ALA:HA	2.20	0.42
13:4I:87:TYR:O	13:4I:90:LEU:N	2.52	0.42
20:BI:55:ILE:HD13	20:BI:55:ILE:HA	1.93	0.42
24:3K:3:G:O5'	24:3K:3:G:H8	2.03	0.42
26:1H:251:A:C5	26:1H:252:G:H1'	2.55	0.42
26:1H:610:C:H2'	26:1H:611:C:H6	1.85	0.42
26:1H:780:G:H8	26:1H:780:G:O5'	2.03	0.42
26:1H:1176:G:H2'	26:1H:1177:A:N3	2.35	0.42
26:1H:1432:C:H2'	26:1H:1433:U:O4'	2.19	0.42
26:1H:1824:G:N3	29:11:254:THR:OG1	2.53	0.42
26:1H:1956:U:H2'	26:1H:1957:C:H5'	2.02	0.42
26:1H:1993:U:H4'	30:21:128:SER:HB3	2.02	0.42
26:1H:2023:G:H5'	26:1H:2617:C:H4'	2.02	0.42
26:1H:2159:G:H2'	26:1H:2160:G:O4'	2.20	0.42
26:1H:2452:C:N4	26:1H:2453:A:N6	2.67	0.42
26:1H:2531:A:H2	26:1H:2658:C:O2	2.03	0.42
26:1H:2680:C:O2'	26:1H:2681:C:H5'	2.20	0.42
27:16:20:C:H2'	27:16:21:G:O4'	2.20	0.42
28:71:5:LYS:HA	28:71:8:ARG:HB3	2.02	0.42
31:31:164:ARG:HG2	31:31:164:ARG:HH11	1.83	0.42
36:68:117:LEU:HD23	36:68:117:LEU:HA	1.73	0.42
37:78:30:THR:CG2	37:78:35:HIS:H	2.32	0.42
39:98:55:ALA:HB1	39:98:80:PHE:HA	2.00	0.42
40:A8:27:SER:HA	40:A8:88:ASP:CB	2.46	0.42
42:C8:101:ARG:O	42:C8:103:PRO:HD3	2.20	0.42
44:E8:13:SER:O	44:E8:14:PRO:C	2.62	0.42
52:M8:34:GLU:HG2	52:M8:35:VAL:HG22	2.01	0.42
1:1G:449:C:H2'	1:1G:450:G:O4'	2.20	0.42
1:1G:634:C:H2'	1:1G:635:G:H8	1.85	0.42
1:1G:1021:G:H2'	1:1G:1022:G:H8	1.84	0.42
1:1G:1037:C:C2	1:1G:1038:C:C5	3.08	0.42
1:1G:1143:G:H2'	1:1G:1144:G:H8	1.77	0.42
2:12:98:LEU:O	2:12:101:MET:HG2	2.19	0.42
4:32:133:VAL:HG11	4:32:138:TYR:CD2	2.55	0.42
4:32:145:GLU:OE1	4:32:182:LYS:HD2	2.20	0.42
4:32:162:LEU:HA	4:32:165:MET:HB3	2.00	0.42
5:42:105:VAL:CG2	5:42:128:PRO:HB3	2.48	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:52:82:ARG:HB2	6:52:85:VAL:HG23	2.02	0.42
8:72:29:SER:H	8:72:32:LYS:HB2	1.85	0.42
17:8A:59:ILE:HG22	17:8A:71:PHE:CD2	2.54	0.42
19:AA:37:ARG:O	19:AA:70:LYS:HE3	2.19	0.42
20:BA:62:LEU:HD23	20:BA:62:LEU:HA	1.83	0.42
25:4L:19:U:C2	25:4L:20:A:C8	3.07	0.42
26:14:28:A:C2	26:14:513:A:C8	3.06	0.42
26:14:600:G:H2'	26:14:601:C:C6	2.54	0.42
26:14:776:G:H4'	26:14:777:A:O5'	2.19	0.42
26:14:907:U:O2'	38:45:101:ARG:NH2	2.47	0.42
26:14:974(A):C:H2'	26:14:974(A):C:O2	2.20	0.42
26:14:1049:C:N3	26:14:2751:G:N1	2.54	0.42
26:14:1166:C:H1'	26:14:1184:G:N2	2.34	0.42
26:14:1542:G:O5'	26:14:1543:A:H5''	2.20	0.42
26:14:1729:A:N3	26:14:1730:U:H5	2.18	0.42
26:14:1808:U:H5''	26:14:1809:A:OP2	2.20	0.42
26:14:1834:U:H4'	26:14:1969:A:C6	2.54	0.42
26:14:1870:C:H5''	26:14:1871:A:OP2	2.20	0.42
26:14:2162:G:H4'	26:14:2173:A:OP2	2.20	0.42
26:14:2171:A:N7	26:14:2172:U:C6	2.87	0.42
26:14:2331:G:H4'	48:E5:43:THR:H	1.85	0.42
26:14:2352:A:C2	48:E5:33:ALA:O	2.73	0.42
26:14:2415:G:C6	26:14:2416:C:C4	3.08	0.42
26:14:2419:U:H2'	26:14:2420:C:C6	2.55	0.42
26:14:2636:U:H4'	30:29:80:GLU:CD	2.44	0.42
26:14:2687:U:C4	26:14:2688:U:C5	3.08	0.42
29:19:85:ASP:OD2	29:19:88:ARG:NH1	2.43	0.42
30:29:49:LEU:HD22	30:29:91:VAL:HG21	2.02	0.42
30:29:65:GLY:C	30:29:68:ALA:H	2.28	0.42
35:15:47:ALA:CB	35:15:112:LEU:HD21	2.48	0.42
35:15:73:THR:HG22	35:15:84:LYS:HB3	2.01	0.42
1:13:319:G:H2'	1:13:320:C:O4'	2.20	0.42
1:13:498:A:C4	1:13:546:G:N2	2.81	0.42
1:13:539:A:H2'	1:13:540:G:C8	2.54	0.42
1:13:1149:C:H2'	1:13:1150:U:C6	2.55	0.42
2:1E:214:ILE:H	2:1E:214:ILE:HG13	1.50	0.42
5:4E:10:MET:HE2	5:4E:10:MET:HB2	1.68	0.42
5:4E:51:VAL:O	5:4E:55:VAL:HG23	2.19	0.42
5:4E:84:PHE:CZ	5:4E:133:TYR:HD2	2.38	0.42
8:7E:129:VAL:HG23	8:7E:130:GLY:H	1.83	0.42
9:8E:4:TYR:CD1	9:8E:88:TYR:HB2	2.54	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1F:6:ARG:NH1	21:1F:15:ARG:HE	2.18	0.42
22:1K:68:G:H2'	22:1K:69:A:N7	2.35	0.42
26:1H:43:G:N2	26:1H:438:G:C4	2.88	0.42
26:1H:249:C:O2	55:Q8:12:LYS:NZ	2.41	0.42
26:1H:475:U:C4	26:1H:481:G:O6	2.72	0.42
26:1H:818:G:H5'	26:1H:839:U:OP1	2.19	0.42
26:1H:839:U:H2'	26:1H:840:C:C6	2.54	0.42
26:1H:1179:C:H2'	26:1H:1180:C:C6	2.55	0.42
26:1H:1221:C:H2'	26:1H:1222:C:C6	2.54	0.42
26:1H:2365:G:H4'	48:I8:60:PHE:CZ	2.54	0.42
26:1H:2629:A:N6	26:1H:2895:U:C2	2.88	0.42
26:1H:2850:A:OP2	26:1H:2866:U:N3	2.43	0.42
27:16:11:C:OP2	27:16:12:C:N4	2.40	0.42
27:16:89(A):A:N7	27:16:90:C:H1'	2.35	0.42
27:16:116:G:H2'	27:16:117:G:O4'	2.20	0.42
30:21:84:PHE:CZ	30:21:91:VAL:HG11	2.55	0.42
30:21:116:VAL:HG22	30:21:122:PHE:CD1	2.54	0.42
33:51:97:ARG:HG2	33:51:98:LEU:N	2.35	0.42
33:51:152:ARG:HA	33:51:152:ARG:HD3	1.86	0.42
36:68:53:LYS:HD2	36:68:53:LYS:N	2.27	0.42
37:78:59:LEU:HB2	55:Q8:58:ILE:HD12	2.01	0.42
37:78:79:ARG:HB2	37:78:110:TYR:HD1	1.84	0.42
1:1G:341:C:H2'	1:1G:342:C:C6	2.54	0.42
1:1G:1004:A:N1	1:1G:1006:C:C2	2.88	0.42
1:1G:1019:C:H2'	1:1G:1020:U:C6	2.55	0.42
1:1G:1026:G:H2'	1:1G:1027:C:H5'	2.02	0.42
4:32:133:VAL:HG11	4:32:138:TYR:HD2	1.84	0.42
9:82:118:LYS:HB3	9:82:121:ARG:HB3	2.02	0.42
13:4A:29:ARG:HD3	13:4A:64:TRP:CH2	2.54	0.42
17:8A:41:LYS:HZ1	17:8A:92:ARG:HH21	1.67	0.42
22:1L:19:G:P	22:1L:19:G:H3'	2.60	0.42
22:1L:22:G:H2'	22:1L:23:A:H8	1.85	0.42
23:2L:11:A:O5'	23:2L:11:A:H8	2.02	0.42
26:14:500:G:N2	26:14:502:A:H3'	2.34	0.42
26:14:671:C:OP1	37:35:42:SER:O	2.37	0.42
26:14:1109:C:H5''	26:14:1110:G:OP2	2.20	0.42
26:14:1142(A):A:C8	26:14:1144:G:N7	2.88	0.42
26:14:1329:U:H5''	26:14:1330:C:C5	2.51	0.42
26:14:1914:C:H2'	26:14:1915:U:O4'	2.19	0.42
26:14:2210:G:H5'	26:14:2211:G:N1	2.35	0.42
26:14:2319:G:N2	26:14:2334:G:OP1	2.38	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2766:G:N3	26:14:2766:G:H2'	2.35	0.42
28:79:46:LYS:HE2	28:79:210:ARG:HB3	2.01	0.42
30:29:1:MET:HG3	30:29:200:GLU:HB3	2.02	0.42
32:49:34:LEU:HB3	32:49:99:MET:HE1	2.02	0.42
32:49:75:LYS:HD2	32:49:75:LYS:C	2.45	0.42
34:69:76:THR:HG23	34:69:77:LEU:N	2.35	0.42
50:G5:25:VAL:HA	50:G5:28:LYS:HB2	2.01	0.42
1:13:27:G:C6	1:13:28:G:C5	3.07	0.42
1:13:122:G:H4'	1:13:312:C:O2'	2.20	0.42
1:13:191:G:C2	1:13:192:U:C2	3.08	0.42
1:13:690:G:N2	11:2I:55:LYS:HE2	2.35	0.42
1:13:821:G:C2	1:13:880:C:N3	2.88	0.42
1:13:1464:G:H2'	1:13:1465:C:H6	1.84	0.42
3:2E:15:THR:CG2	3:2E:181:ASN:HA	2.50	0.42
5:4E:26:PHE:CD1	5:4E:26:PHE:N	2.88	0.42
14:5I:4:LYS:HA	14:5I:7:ILE:HG13	2.02	0.42
15:6I:4:THR:OG1	15:6I:7:GLU:HG3	2.20	0.42
20:BI:51:GLU:OE1	20:BI:51:GLU:C	2.63	0.42
26:1H:55:G:N2	26:1H:116:C:C2	2.88	0.42
26:1H:243:U:OP1	55:Q8:6:THR:OG1	2.27	0.42
26:1H:363(F):A:H4'	26:1H:364:C:H5'	2.02	0.42
26:1H:514:A:H1'	26:1H:581:C:O2'	2.19	0.42
26:1H:587:C:P	37:78:21:ARG:HH22	2.42	0.42
26:1H:996:A:H4'	42:C8:92:ARG:HE	1.85	0.42
26:1H:1021:A:H61	26:1H:1142(A):A:N6	2.18	0.42
26:1H:1413:G:C4	26:1H:1414:G:C8	3.08	0.42
26:1H:1510:A:O2'	26:1H:1511:A:N7	2.46	0.42
26:1H:1580:A:H8	26:1H:1580:A:OP2	2.03	0.42
26:1H:2124:G:O3'	28:71:174:PRO:HB3	2.20	0.42
26:1H:2127:G:C5	26:1H:2162:G:C8	3.08	0.42
26:1H:2699:C:H2'	26:1H:2700:C:O4'	2.19	0.42
27:16:73:A:H2'	27:16:73:A:N3	2.34	0.42
29:11:102:LYS:C	29:11:103:ARG:HG2	2.45	0.42
31:31:64:ILE:HG23	31:31:64:ILE:HD12	1.65	0.42
32:41:112:PRO:HA	52:M8:37:SER:HB2	2.02	0.42
36:68:70:LYS:HE3	36:68:70:LYS:HB2	1.75	0.42
44:E8:74:ALA:HA	44:E8:104:THR:O	2.20	0.42
47:H8:125:LEU:HG	47:H8:164:ALA:CB	2.50	0.42
55:Q8:65:GLU:OE1	55:Q8:65:GLU:N	2.53	0.42
1:1G:192:U:C4'	20:BA:103:GLY:HA2	2.50	0.42
1:1G:197:A:H8	1:1G:198:G:C8	2.38	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:411:A:C6	1:1G:413:G:H1'	2.54	0.42
1:1G:1068:G:N7	1:1G:1094:G:C8	2.88	0.42
1:1G:1158:C:N3	1:1G:1160:G:C8	2.87	0.42
2:12:188:ALA:HB1	2:12:192:SER:CB	2.49	0.42
5:42:63:ARG:HG2	5:42:63:ARG:HH11	1.84	0.42
8:72:103:VAL:HG11	8:72:109:ILE:O	2.20	0.42
8:72:105:ARG:HD3	8:72:105:ARG:HA	1.67	0.42
13:4A:56:LEU:HD22	13:4A:60:VAL:HG23	2.01	0.42
14:5A:24:CYS:SG	14:5A:39:LEU:HA	2.60	0.42
15:6A:43:LEU:HD11	15:6A:53:HIS:HA	2.01	0.42
20:BA:83:ARG:O	20:BA:87:LYS:HG3	2.20	0.42
24:3L:9:A:O2'	24:3L:10:G:N7	2.41	0.42
24:3L:76:A:C8	26:14:2394:C:N4	2.87	0.42
26:14:141:A:C8	26:14:1408:C:H1'	2.55	0.42
26:14:848:G:C2	26:14:849:A:C5	3.08	0.42
26:14:1669:A:H2'	26:14:1670:C:H5'	2.01	0.42
26:14:1826:G:H4'	29:19:242:ARG:HH21	1.84	0.42
26:14:1899:G:N2	26:14:1902:C:C5	2.88	0.42
26:14:2262:U:O2'	26:14:2263:C:H5'	2.20	0.42
26:14:2567:G:H2'	26:14:2568:C:H6	1.83	0.42
27:1J:74:U:H2'	27:1J:75:G:O4'	2.20	0.42
27:1J:110:G:C5	27:1J:111:U:C5	3.08	0.42
31:39:146:ALA:HB3	31:39:148:LEU:HG	2.01	0.42
34:69:101:LEU:HB2	34:69:105:HIS:HB2	2.02	0.42
40:65:56:LEU:HD12	40:65:56:LEU:HA	1.84	0.42
40:65:74:ALA:O	40:65:78:LEU:HB2	2.20	0.42
40:65:106:ARG:O	40:65:107:GLU:CD	2.62	0.42
42:85:90:VAL:CG2	43:95:39:LEU:HD22	2.50	0.42
49:F5:91:LYS:NZ	49:F5:95:LEU:HD22	2.35	0.42
1:13:437:U:O4	1:13:438:G:C6	2.72	0.41
1:13:998(A):C:O2'	1:13:999:U:H5'	2.20	0.41
1:13:1004:A:H8	1:13:1036:G:H22	1.67	0.41
1:13:1124:G:C2	1:13:1127:G:N2	2.88	0.41
1:13:1126:U:H2'	1:13:1127:G:C8	2.55	0.41
1:13:1238:A:N6	1:13:1301:U:H3	2.13	0.41
1:13:1262:C:O5'	1:13:1262:C:H6	2.03	0.41
2:1E:223:ILE:H	2:1E:223:ILE:HG12	1.68	0.41
3:2E:177:THR:O	3:2E:180:ALA:HB2	2.20	0.41
11:2I:22:HIS:HB3	11:2I:29:ILE:CG2	2.50	0.41
26:1H:278:A:H3'	26:1H:279:C:C6	2.55	0.41
26:1H:1111:A:N3	26:1H:1112:G:H1'	2.35	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:1328:G:H2'	26:1H:1330:C:C4	2.55	0.41
26:1H:1550:C:C6	26:1H:1551:C:H5	2.38	0.41
26:1H:1639:U:OP1	60:1H:3563:HOH:O	2.22	0.41
26:1H:1788:C:H2'	26:1H:1789:A:O4'	2.20	0.41
26:1H:1869:G:H8	26:1H:1869:G:H5''	1.85	0.41
26:1H:2122:U:O2'	28:71:172:HIS:CE1	2.70	0.41
26:1H:2171:A:O2'	26:1H:2172:U:O4'	2.25	0.41
26:1H:2634:G:H2'	26:1H:2635:C:O4'	2.20	0.41
26:1H:2780:G:OP2	35:58:118:LYS:HD3	2.20	0.41
26:1H:2820:A:O5'	39:98:4:LEU:HD23	2.20	0.41
26:1H:2855:C:H2'	26:1H:2856:C:C6	2.53	0.41
27:16:15:A:H4'	27:16:15:A:OP1	2.19	0.41
28:71:177:LYS:HD2	28:71:178:ALA:H	1.84	0.41
32:41:6:ALA:HB3	32:41:104:GLU:OE2	2.20	0.41
33:51:98:LEU:HD13	33:51:125:VAL:HG23	2.02	0.41
33:51:137:ASP:HB3	33:51:140:LYS:HB3	2.01	0.41
37:78:98:GLU:O	37:78:101:VAL:HG22	2.20	0.41
1:1G:587:G:N2	1:1G:755:G:C5	2.88	0.41
1:1G:1036:G:H3'	1:1G:1037:C:O4'	2.20	0.41
1:1G:1121:U:H2'	1:1G:1122:U:C6	2.55	0.41
1:1G:1274:G:H2'	1:1G:1275:A:H8	1.85	0.41
1:1G:1291:G:C6	1:1G:1292:U:O4	2.72	0.41
1:1G:1360:A:H8	1:1G:1360:A:OP1	2.03	0.41
1:1G:1368:G:H4'	10:1A:46:ARG:NH2	2.27	0.41
2:12:71:VAL:HG21	2:12:164:VAL:HA	2.02	0.41
4:32:104:VAL:O	4:32:108:LEU:HB3	2.20	0.41
5:42:78:HIS:HA	8:72:105:ARG:HG3	2.02	0.41
7:62:15:ASP:OD1	7:62:20:ASP:N	2.53	0.41
13:4A:53:VAL:O	13:4A:56:LEU:N	2.53	0.41
16:7A:57:ARG:HH21	16:7A:79:VAL:C	2.28	0.41
26:14:17:G:H4'	42:85:25:TRP:CZ3	2.54	0.41
26:14:171:G:H2'	26:14:172:C:C6	2.55	0.41
26:14:176:G:O2'	26:14:177:G:H5'	2.20	0.41
26:14:270(E):G:H2'	26:14:270(F):U:C6	2.54	0.41
26:14:289:A:H3'	26:14:290:G:H8	1.85	0.41
26:14:307:G:N2	26:14:309:G:H3'	2.35	0.41
26:14:443:A:H5''	26:14:444:C:OP1	2.20	0.41
26:14:1000:A:H62	26:14:1154:G:H2'	1.84	0.41
26:14:1291:C:H2'	26:14:1292:U:C6	2.54	0.41
26:14:1436:G:O2'	26:14:1477:A:H4'	2.19	0.41
26:14:1551:C:C4	26:14:1552:G:C5	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:1804:C:O5'	26:14:1804:C:H6	2.02	0.41
26:14:1895:C:C2	26:14:1896:G:C8	3.08	0.41
26:14:2506:U:H4'	26:14:2507:C:OP1	2.18	0.41
26:14:2572:A:C5	30:29:144:ARG:NH1	2.85	0.41
26:14:2875:C:O2'	41:75:5:ALA:HB3	2.20	0.41
30:29:180:ASN:N	30:29:180:ASN:HD22	2.17	0.41
32:49:130:ASN:ND2	32:49:161:THR:H	2.17	0.41
32:49:173:LEU:HD22	32:49:178:PHE:CE2	2.55	0.41
37:35:11:GLY:O	37:35:12:ALA:HB3	2.20	0.41
41:75:8:LYS:CA	41:75:8:LYS:HE3	2.50	0.41
43:95:48:GLY:N	43:95:52:VAL:HG23	2.35	0.41
46:C5:46:LYS:HD2	46:C5:61:ILE:H	1.85	0.41
46:C5:87:LYS:HB3	46:C5:94:LYS:HA	2.01	0.41
47:D5:29:TYR:HA	47:D5:34:ASN:HA	2.01	0.41
47:D5:69:THR:HA	47:D5:89:PHE:O	2.20	0.41
47:D5:128:VAL:HG22	47:D5:129:SER:H	1.85	0.41
1:13:1057:G:H2'	1:13:1058:G:O4'	2.20	0.41
1:13:1135:U:H4'	1:13:1136:U:N3	2.35	0.41
1:13:1273:G:H3'	1:13:1274:G:H8	1.85	0.41
2:1E:21:ARG:C	2:1E:23:ARG:N	2.79	0.41
2:1E:69:LEU:HD23	2:1E:159:PRO:CG	2.47	0.41
2:1E:184:VAL:HG23	2:1E:198:ASP:OD2	2.20	0.41
13:4I:67:GLU:O	13:4I:71:ARG:HB2	2.20	0.41
17:8I:74:LEU:HD12	17:8I:75:ARG:HG2	2.02	0.41
26:1H:293:U:H5''	26:1H:294:A:OP2	2.20	0.41
26:1H:597:U:H2'	26:1H:598:G:H5'	2.01	0.41
26:1H:644:A:H4'	26:1H:645:C:C5	2.55	0.41
26:1H:1371:G:H2'	26:1H:1372:U:H5	1.85	0.41
26:1H:1798:U:H5'	29:11:259:THR:OG1	2.20	0.41
26:1H:1851:U:H2'	26:1H:1852:C:O4'	2.20	0.41
26:1H:2131:G:C5'	26:1H:2132:U:H5''	2.50	0.41
26:1H:2356:C:O3'	48:I8:20:ARG:HD3	2.20	0.41
26:1H:2472:G:O6	26:1H:2475:C:H2'	2.20	0.41
28:71:175:VAL:HG23	28:71:176:GLY:N	2.34	0.41
29:11:264:LYS:HE2	29:11:266:SER:HB3	2.02	0.41
31:31:62:ARG:HG3	31:31:63:LYS:N	2.34	0.41
35:58:5:VAL:HA	35:58:6:PRO:HD3	1.94	0.41
35:58:40:PRO:O	42:C8:64:ARG:HG2	2.19	0.41
37:78:49:ARG:NH1	37:78:50:ARG:HH21	2.17	0.41
39:98:44:LEU:O	39:98:47:PHE:N	2.45	0.41
44:E8:17:VAL:HG13	44:E8:76:VAL:HG11	2.01	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:G8:97:ARG:O	46:G8:101:LYS:HA	2.20	0.41
52:M8:13:ARG:NH2	52:M8:22:ILE:HD12	2.36	0.41
1:1G:191(F):U:H2'	1:1G:191:G:H8	1.86	0.41
1:1G:310:G:P	16:7A:27:LYS:HD3	2.60	0.41
1:1G:310:G:H5''	16:7A:31:LYS:HB3	2.01	0.41
1:1G:332:G:C2	1:1G:333:G:C8	3.08	0.41
1:1G:591:U:OP2	8:72:30:ARG:HD3	2.19	0.41
1:1G:626:U:H2'	1:1G:627:G:H8	1.85	0.41
1:1G:1224:G:N2	1:1G:1322:C:H4'	2.35	0.41
1:1G:1355:G:C6	1:1G:1368:G:C6	3.09	0.41
1:1G:1422:G:OP1	36:25:48:PRO:HA	2.20	0.41
3:22:129:ALA:HB3	3:22:132:ARG:HB3	2.02	0.41
5:42:76:ILE:HG12	5:42:118:ILE:CD1	2.50	0.41
13:4A:14:ARG:HB3	13:4A:16:ASP:OD1	2.20	0.41
24:3L:25:C:H2'	24:3L:26:A:O4'	2.20	0.41
24:3L:51:A:N6	24:3L:63:U:C2	2.87	0.41
26:14:465:G:H5''	54:L5:44:PRO:HG3	2.03	0.41
26:14:572:A:H2'	26:14:573:G:O4'	2.20	0.41
26:14:628:G:H2'	26:14:629:G:C8	2.56	0.41
26:14:677:A:H61	26:14:800:A:N6	2.18	0.41
26:14:709:U:H2'	26:14:710:G:C8	2.55	0.41
26:14:1055:G:C2	26:14:1085:A:H1'	2.55	0.41
26:14:1181:C:H2'	26:14:1182:A:H8	1.85	0.41
26:14:1257:C:H2'	26:14:1258:C:C6	2.55	0.41
26:14:1260:G:H2'	26:14:1261:C:C6	2.55	0.41
26:14:1297:C:OP1	26:14:2710:C:H4'	2.20	0.41
26:14:1441:G:H2'	26:14:1442:G:H8	1.85	0.41
26:14:1532:C:N3	26:14:1539:G:N2	2.53	0.41
26:14:2242:G:H2'	26:14:2243:U:O4'	2.20	0.41
27:1J:23:G:C2	27:1J:24:G:O6	2.72	0.41
27:1J:28:C:H2'	27:1J:29:A:C8	2.54	0.41
29:19:267:SER:C	29:19:269:PHE:N	2.75	0.41
30:29:31:CYS:O	30:29:90:THR:HA	2.19	0.41
30:29:55:ASN:HB2	30:29:58:ARG:NH2	2.34	0.41
32:49:107:LEU:HD23	32:49:107:LEU:HA	1.89	0.41
37:35:18:ARG:C	37:35:19:VAL:HG23	2.45	0.41
40:65:7:TYR:O	40:65:11:LYS:HB2	2.20	0.41
41:75:8:LYS:HE3	41:75:8:LYS:HA	2.02	0.41
42:85:17:ILE:HG23	42:85:17:ILE:HD12	1.71	0.41
43:95:21:ARG:HH21	43:95:91:TYR:C	2.27	0.41
43:95:44:LYS:HB2	43:95:45:THR:OG1	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:A5:12:ILE:HD12	44:A5:42:ARG:HD3	2.03	0.41
1:13:130:A:C8	17:8I:63:ARG:HB2	2.55	0.41
1:13:344:A:H5''	1:13:345:C:C6	2.55	0.41
1:13:429:U:H4'	1:13:430:A:OP1	2.19	0.41
1:13:456:C:N3	1:13:476:G:N2	2.40	0.41
1:13:668:G:C6	1:13:669:U:C5	3.09	0.41
1:13:1491:G:N7	57:13:1730:PAR:O53	2.48	0.41
2:1E:185:ILE:HG22	2:1E:199:TYR:O	2.21	0.41
4:3E:196:LEU:HB3	4:3E:198:VAL:HG23	2.02	0.41
7:6E:80:VAL:HB	7:6E:85:TYR:CE1	2.54	0.41
12:3I:111:LYS:HD2	12:3I:111:LYS:HA	1.82	0.41
15:6I:78:TYR:O	15:6I:81:LEU:N	2.54	0.41
16:7I:38:TYR:CZ	16:7I:50:LYS:HB3	2.55	0.41
26:1H:125:G:C6	54:P8:10:ARG:HG3	2.55	0.41
26:1H:463:G:N2	26:1H:466:A:OP2	2.43	0.41
26:1H:571:A:H5'	26:1H:2030:A:N7	2.35	0.41
26:1H:588:U:H1'	31:31:90:PHE:CG	2.55	0.41
26:1H:593:G:C6	26:1H:594:U:C4	3.08	0.41
26:1H:775:G:C5	26:1H:794:G:C8	3.08	0.41
26:1H:922:U:H2'	26:1H:923:C:C6	2.55	0.41
26:1H:1270:C:H5''	26:1H:1271:G:O5'	2.20	0.41
26:1H:1493:C:C4	26:1H:2210:G:C8	3.08	0.41
26:1H:1638:C:H4'	26:1H:2710:C:O2	2.20	0.41
26:1H:1705:G:C6	26:1H:1706:U:N3	2.88	0.41
26:1H:1789:A:OP1	29:11:221:VAL:HA	2.20	0.41
26:1H:2147:G:H8	26:1H:2147:G:O5'	2.03	0.41
26:1H:2259:G:C2	26:1H:2282:G:N1	2.88	0.41
26:1H:2273:A:H2'	26:1H:2274:A:C8	2.55	0.41
27:16:71:C:C2	27:16:72:G:C8	3.08	0.41
27:16:109:G:C6	27:16:110:G:C5	3.08	0.41
28:71:46:LYS:HB3	28:71:210:ARG:HB2	2.03	0.41
29:11:228:PRO:HG3	29:11:234:GLY:O	2.19	0.41
32:41:73:ALA:HA	32:41:88:ILE:HD11	2.01	0.41
47:H8:99:TYR:CE1	47:H8:125:LEU:HB2	2.54	0.41
1:1G:147:G:N2	1:1G:148:G:C4	2.88	0.41
1:1G:186(E):C:C2	1:1G:191(C):G:N2	2.87	0.41
1:1G:272:C:H2'	1:1G:273:A:H8	1.84	0.41
1:1G:362:G:O2'	1:1G:364:A:N7	2.49	0.41
1:1G:607:A:C2	16:7A:31:LYS:HB2	2.55	0.41
1:1G:861:G:N2	1:1G:872:A:H2	2.18	0.41
1:1G:1067:A:H4'	1:1G:1068:G:O5'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1086:U:H3	1:1G:1099:G:H22	1.68	0.41
1:1G:1203:C:H2'	1:1G:1204:A:C8	2.55	0.41
1:1G:1256:A:H3'	3:22:27:LYS:NZ	2.35	0.41
1:1G:1285:A:H4'	1:1G:1286:A:O5'	2.20	0.41
2:12:31:TYR:O	2:12:32:ILE:HB	2.19	0.41
3:22:195:VAL:O	3:22:196:LEU:HD22	2.20	0.41
4:32:148:VAL:HG12	4:32:152:SER:OG	2.21	0.41
5:42:136:MET:HB3	5:42:136:MET:HE3	1.74	0.41
7:62:99:LEU:HD22	7:62:103:TRP:NE1	2.35	0.41
9:82:20:ARG:HD2	9:82:20:ARG:C	2.45	0.41
16:7A:42:ARG:C	16:7A:43:LYS:HG3	2.45	0.41
19:AA:11:VAL:HG13	19:AA:39:THR:CB	2.51	0.41
19:AA:38:SER:O	19:AA:70:LYS:HG3	2.20	0.41
23:2L:17:C:OP1	23:2L:62:C:H5'	2.20	0.41
24:3L:76:A:H8	26:14:2394:C:N4	2.18	0.41
26:14:4:C:O2	26:14:4:C:H2'	2.20	0.41
26:14:468:G:H2'	26:14:469:G:O4'	2.20	0.41
26:14:520:G:H2'	26:14:521:G:C8	2.55	0.41
26:14:616:A:C5	31:39:180:GLY:HA3	2.56	0.41
26:14:621:A:H3'	26:14:622:G:H8	1.85	0.41
26:14:910:A:C5	38:45:13:GLN:HG3	2.55	0.41
26:14:1013:C:N3	26:14:1149:G:N2	2.57	0.41
26:14:1474:C:H2'	26:14:1475:G:C8	2.56	0.41
26:14:1788:C:C2	26:14:1789:A:C8	3.08	0.41
29:19:46:GLN:H	29:19:46:GLN:HG3	1.55	0.41
29:19:71:ASP:CG	29:19:103:ARG:HH22	2.28	0.41
34:69:97:ILE:O	34:69:100:ALA:HB3	2.21	0.41
36:25:34:THR:HG22	36:25:37:ASP:CG	2.45	0.41
36:25:71:ARG:HB2	36:25:73:ASP:OD1	2.20	0.41
1:13:592:G:O2'	1:13:593:G:H5'	2.21	0.41
1:13:706:A:N3	11:2I:31:THR:HG21	2.34	0.41
1:13:983:A:H1'	1:13:1049:U:O2	2.20	0.41
1:13:1367:C:H4'	10:1I:48:THR:HG21	2.01	0.41
4:3E:49:ARG:NH2	60:3E:401:HOH:O	2.53	0.41
4:3E:111:ALA:HB2	4:3E:120:LEU:HD11	2.02	0.41
7:6E:26:PHE:O	7:6E:27:ILE:C	2.63	0.41
8:7E:13:ILE:O	8:7E:17:THR:HG23	2.21	0.41
10:1I:55:LYS:O	10:1I:56:HIS:CD2	2.74	0.41
16:7I:19:ILE:HB	16:7I:36:ILE:HG13	2.02	0.41
22:1K:67:C:H5''	22:1K:68:G:OP1	2.20	0.41
26:1H:17:G:H2'	26:1H:18:C:C6	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:314:A:C2'	26:1H:315:G:H5'	2.51	0.41
26:1H:582:G:H2'	26:1H:583:G:H8	1.85	0.41
26:1H:654(O):G:C8	26:1H:654(P):G:H1'	2.52	0.41
26:1H:657:U:H2'	26:1H:658:C:H6	1.86	0.41
26:1H:1183:G:OP2	26:1H:1183:G:H8	2.03	0.41
26:1H:1324:G:N2	26:1H:1331:A:C4	2.89	0.41
26:1H:1349:A:N6	26:1H:1598:C:N4	2.68	0.41
26:1H:1351:C:H5''	60:1H:3790:HOH:O	2.19	0.41
26:1H:1465:G:C4	26:1H:1466:G:C8	3.08	0.41
26:1H:1545(A):A:N7	26:1H:1546:C:C2	2.88	0.41
26:1H:2118:U:O5'	26:1H:2118:U:H6	2.04	0.41
26:1H:2147:G:H3'	26:1H:2148:G:C8	2.53	0.41
26:1H:2259:G:C2	26:1H:2282:G:C6	3.09	0.41
26:1H:2663:G:H3'	26:1H:2664:G:H8	1.85	0.41
27:16:87:G:N2	27:16:89:G:H3'	2.34	0.41
29:11:24:ILE:HG23	29:11:83:GLU:HA	2.02	0.41
31:31:110:LEU:HA	31:31:183:VAL:HG12	2.02	0.41
33:51:80:SER:O	33:51:81:GLU:CD	2.63	0.41
33:51:97:ARG:HE	33:51:97:ARG:HB3	1.77	0.41
34:61:33:ARG:O	34:61:35:LEU:HD12	2.20	0.41
34:61:131:LYS:HA	34:61:131:LYS:HD3	1.95	0.41
35:58:48:MET:SD	35:58:48:MET:O	2.78	0.41
47:H8:56:VAL:HA	47:H8:70:LEU:HD23	2.03	0.41
50:K8:17:SER:HB3	50:K8:67:LYS:HE3	2.03	0.41
1:1G:123:C:H2'	1:1G:124:G:H8	1.86	0.41
1:1G:243:A:H62	1:1G:281:G:H1'	1.86	0.41
1:1G:446:G:H2'	1:1G:447:G:O4'	2.20	0.41
1:1G:585:G:H4'	12:3A:8:ASN:OD1	2.21	0.41
1:1G:802:A:H3'	1:1G:803:G:H8	1.85	0.41
1:1G:949:A:C2	1:1G:1233:G:N3	2.88	0.41
1:1G:1128:C:O2	1:1G:1128:C:H2'	2.19	0.41
1:1G:1177:G:O2'	1:1G:1178:G:C8	2.69	0.41
1:1G:1404:C:H2'	1:1G:1405:G:C8	2.55	0.41
2:12:42:ILE:HG22	2:12:43:ASP:O	2.20	0.41
3:22:73:PRO:HG3	3:22:105:GLU:HA	2.02	0.41
4:32:172:PRO:HB2	4:32:187:ARG:HH22	1.85	0.41
8:72:51:VAL:HG11	8:72:60:ARG:HH21	1.85	0.41
13:4A:31:LYS:O	13:4A:34:LEU:HG	2.20	0.41
19:AA:7:LYS:HB2	19:AA:7:LYS:HE2	1.89	0.41
23:2L:54:G:H2'	23:2L:55:5MU:C6	2.52	0.41
24:3L:63:U:H2'	24:3L:64:G:C8	2.55	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:226:G:H21	26:14:228:A:H62	1.68	0.41
26:14:289:A:C2'	26:14:290:G:H5'	2.50	0.41
26:14:541:C:H2'	26:14:542:C:C6	2.56	0.41
26:14:1802:A:N1	26:14:1822:G:H1'	2.36	0.41
26:14:2141:G:C6	26:14:2151:G:C6	3.09	0.41
26:14:2148:G:H2'	26:14:2149:G:H8	1.84	0.41
26:14:2162:G:H8	26:14:2164:C:H41	1.66	0.41
26:14:2290:G:C2	26:14:2343:C:O2	2.72	0.41
27:1J:81:G:C6	27:1J:82:G:C5	3.09	0.41
29:19:49:ILE:HG21	29:19:49:ILE:HD13	1.72	0.41
29:19:272:ALA:HB1	29:19:273:ARG:H	1.52	0.41
30:29:64:LYS:HB3	30:29:64:LYS:HE3	1.89	0.41
30:29:111:ARG:HD3	30:29:160:TYR:CD2	2.56	0.41
31:39:53:THR:HG22	31:39:56:GLU:CG	2.39	0.41
34:69:128:LEU:O	34:69:138:ILE:HG22	2.21	0.41
40:65:110:LEU:HD13	40:65:112:PHE:CZ	2.56	0.41
46:C5:40:GLU:N	46:C5:40:GLU:OE2	2.54	0.41
46:C5:81:LYS:HD2	46:C5:99:CYS:SG	2.61	0.41
47:D5:19:ARG:NH1	47:D5:84:GLU:O	2.52	0.41
1:13:110:C:H3'	1:13:111:G:C8	2.55	0.41
1:13:1176:A:N6	1:13:1177:G:C6	2.89	0.41
2:1E:222:ILE:H	2:1E:222:ILE:HG12	1.61	0.41
3:2E:11:ARG:HH21	3:2E:180:ALA:CB	2.34	0.41
3:2E:188:LEU:HA	3:2E:188:LEU:HD22	1.86	0.41
4:3E:153:ARG:HH11	4:3E:181:MET:HB2	1.85	0.41
8:7E:20:TYR:CE2	8:7E:75:ARG:HD2	2.35	0.41
8:7E:87:SER:HB3	8:7E:133:LEU:O	2.20	0.41
13:4I:117:VAL:HG13	13:4I:118:ALA:H	1.84	0.41
19:AI:41:VAL:HG21	19:AI:67:VAL:HG13	2.03	0.41
20:BI:48:LYS:HE2	20:BI:51:GLU:HG3	2.03	0.41
22:1K:30:G:H5'	22:1K:31:A:OP2	2.20	0.41
26:1H:37:C:O2'	26:1H:38:A:H5'	2.20	0.41
26:1H:600:G:N2	26:1H:605:C:O3'	2.52	0.41
26:1H:775:G:C4	26:1H:794:G:C8	3.09	0.41
26:1H:845:G:OP2	26:1H:845:G:C8	2.73	0.41
26:1H:1019:U:H3	26:1H:1142(A):A:H62	1.66	0.41
26:1H:1127:A:H2'	26:1H:1128:A:H5''	2.02	0.41
26:1H:1477:A:C2	26:1H:1517:G:C2	3.08	0.41
26:1H:1509:C:H2'	26:1H:1511:A:C8	2.55	0.41
26:1H:1601:G:C6	26:1H:1602:U:N3	2.89	0.41
26:1H:1830:C:C2'	26:1H:1831:G:H5'	2.51	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2148:G:C2	26:1H:2149:G:C8	3.09	0.41
26:1H:2480:C:H5'	26:1H:2481:G:OP2	2.20	0.41
26:1H:2688:U:OP1	26:1H:2713:A:N6	2.46	0.41
27:16:22:U:H2'	27:16:23:G:C8	2.55	0.41
28:71:10:LEU:HD23	28:71:13:LYS:HD3	2.01	0.41
29:11:32:SER:HA	29:11:35:LYS:NZ	2.36	0.41
30:21:35:GLN:HG3	30:21:36:ARG:H	1.86	0.41
30:21:108:SER:O	30:21:162:ALA:HA	2.21	0.41
31:31:64:ILE:HG22	31:31:65:TRP:CG	2.55	0.41
32:41:13:GLU:O	32:41:14:GLU:HG2	2.20	0.41
32:41:41:GLN:HG2	32:41:154:GLY:O	2.20	0.41
32:41:170:ARG:HE	32:41:174:GLU:HG2	1.86	0.41
35:58:31:ALA:O	35:58:35:ARG:HG3	2.20	0.41
36:68:35:VAL:HG11	36:68:103:ALA:CB	2.43	0.41
37:78:62:LEU:HA	37:78:62:LEU:HD23	1.80	0.41
46:G8:27:VAL:HA	46:G8:39:VAL:HA	2.01	0.41
46:G8:39:VAL:HG12	46:G8:42:VAL:HG13	2.02	0.41
47:H8:76:LEU:H	47:H8:76:LEU:HD23	1.85	0.41
47:H8:140:ASP:CG	47:H8:141:VAL:H	2.28	0.41
51:L8:31:LEU:C	51:L8:33:GLN:H	2.28	0.41
1:1G:66:G:C2	1:1G:67:C:C6	3.08	0.41
1:1G:117:G:H2'	1:1G:118:U:H6	1.86	0.41
1:1G:162:A:H8	1:1G:162:A:O5'	2.04	0.41
1:1G:184:G:O2'	1:1G:185:A:H5'	2.20	0.41
1:1G:223:U:H2'	1:1G:224:C:H6	1.85	0.41
1:1G:385:C:H2'	1:1G:386:C:C6	2.55	0.41
1:1G:407:G:H2'	1:1G:408:A:H8	1.82	0.41
1:1G:1255:G:H3'	1:1G:1279:A:N6	2.35	0.41
1:1G:1295:G:O2'	13:4A:14:ARG:NH1	2.54	0.41
1:1G:1299:A:C6	1:1G:1301:U:C2	3.08	0.41
1:1G:1317:C:H2'	1:1G:1318:A:H5'	2.01	0.41
2:12:185:ILE:H	2:12:185:ILE:HG13	1.75	0.41
5:42:79:GLU:HB3	5:42:93:PRO:HD2	2.02	0.41
9:82:28:VAL:HG22	9:82:63:ILE:O	2.21	0.41
11:2A:85:ARG:HA	11:2A:112:THR:OG1	2.20	0.41
12:3A:41:ARG:HH11	12:3A:41:ARG:HD2	1.76	0.41
15:6A:41:GLU:O	15:6A:45:VAL:HG22	2.21	0.41
24:3L:26:A:H61	24:3L:45:G:H1	1.69	0.41
26:14:151:C:O2'	26:14:152:G:H5'	2.21	0.41
26:14:298:G:OP1	46:C5:85:VAL:HA	2.19	0.41
26:14:702:G:C2	26:14:731:C:C2	3.08	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:753:C:O2'	26:14:754:C:H5'	2.21	0.41
26:14:805:G:H4'	37:35:38:GLN:HB2	2.01	0.41
26:14:814:C:N3	26:14:1194:A:C2	2.88	0.41
26:14:911:A:C5	38:45:9:TYR:CD2	3.09	0.41
26:14:1317:A:H2'	26:14:1318:C:H6	1.86	0.41
26:14:1684:C:C2	26:14:1705:G:N2	2.89	0.41
26:14:1731:G:N3	26:14:1731:G:O4'	2.52	0.41
26:14:1735:C:O5'	26:14:1735:C:H6	2.02	0.41
26:14:2261:C:O2'	26:14:2262:U:H5'	2.20	0.41
26:14:2758:A:H2'	26:14:2759:G:O4'	2.21	0.41
26:14:2789:C:N3	26:14:2894:G:N2	2.68	0.41
26:14:2822:G:O5'	26:14:2822:G:H8	2.04	0.41
27:1J:72:G:O2'	27:1J:104:A:N6	2.53	0.41
29:19:162:SER:HB3	29:19:195:ALA:HB1	2.03	0.41
36:25:47:ILE:HD13	36:25:47:ILE:HA	1.71	0.41
39:55:76:VAL:HA	39:55:79:LEU:HB3	2.02	0.41
46:C5:90:LEU:HA	46:C5:91:GLU:HA	1.83	0.41
47:D5:16:SER:O	47:D5:20:ARG:HG3	2.20	0.41
47:D5:96:VAL:HG12	47:D5:97:GLU:N	2.36	0.41
50:G5:47:ASN:C	50:G5:49:LYS:H	2.12	0.41
1:13:21:G:C2	1:13:22:G:C6	3.09	0.41
1:13:186(F):C:N3	1:13:191(B):G:C2	2.88	0.41
1:13:571:U:O2	1:13:918:A:H5'	2.21	0.41
1:13:748:C:H6	1:13:748:C:O5'	2.02	0.41
1:13:1003:G:H1	1:13:1037:C:N4	2.19	0.41
2:1E:180:LEU:HB2	2:1E:182:ILE:HG13	2.01	0.41
7:6E:20:ASP:O	7:6E:24:THR:HG23	2.20	0.41
9:8E:25:LYS:O	9:8E:60:ASP:HA	2.21	0.41
11:2I:19:ALA:HA	11:2I:32:ILE:HA	2.03	0.41
11:2I:32:ILE:HD11	11:2I:68:ALA:HB1	2.02	0.41
13:4I:67:GLU:HG3	13:4I:71:ARG:HH21	1.85	0.41
13:4I:92:HIS:O	13:4I:93:ARG:C	2.63	0.41
26:1H:81:G:O6	60:1H:3561:HOH:O	2.21	0.41
26:1H:270(J):G:N1	26:1H:270(P):C:N3	2.56	0.41
26:1H:459:U:H5''	54:P8:40:TRP:CG	2.54	0.41
26:1H:559:G:H22	42:C8:49:HIS:CE1	2.39	0.41
26:1H:773:U:H5'	29:11:47:GLY:HA3	2.02	0.41
26:1H:1357:U:C4	26:1H:1358:G:C5	3.08	0.41
26:1H:1479:G:C4	26:1H:1480:G:C8	3.08	0.41
26:1H:1509:C:C2	26:1H:1511:A:C8	3.09	0.41
26:1H:2152:G:O6	26:1H:2153:G:N1	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:2436:G:C6	26:1H:2437:U:C4	3.08	0.41
29:11:75:ILE:HG21	29:11:99:ASP:OD2	2.20	0.41
29:11:106:ILE:O	29:11:108:PRO:HD3	2.20	0.41
31:31:134:GLY:HA3	31:31:162:LEU:O	2.20	0.41
32:41:34:LEU:HD23	32:41:34:LEU:HA	1.85	0.41
32:41:103:LEU:HD23	32:41:103:LEU:O	2.20	0.41
32:41:143:GLU:OE1	52:M8:26:SER:OG	2.37	0.41
36:68:78:ARG:HH11	41:B8:73:GLU:HB2	1.85	0.41
38:88:118:LEU:HD23	38:88:118:LEU:HA	1.71	0.41
40:A8:30:ARG:O	40:A8:30:ARG:HG3	2.19	0.41
46:G8:40:GLU:HA	46:G8:41:GLY:HA2	1.77	0.41
1:1G:186(A):C:O2'	20:BA:89:ARG:NH2	2.53	0.41
1:1G:288:A:H2'	1:1G:289:G:H4'	2.02	0.41
1:1G:341:C:H2'	1:1G:342:C:H6	1.86	0.41
1:1G:348:G:N2	1:1G:349:A:H1'	2.35	0.41
1:1G:407:G:C2	1:1G:436:C:C2	3.09	0.41
1:1G:439:A:OP2	1:1G:493:G:N2	2.53	0.41
1:1G:457:C:H2'	1:1G:458:C:H6	1.86	0.41
1:1G:596:C:H2'	1:1G:597:G:C8	2.56	0.41
1:1G:622:A:C8	1:1G:623:C:C6	3.09	0.41
1:1G:632:A:H2'	1:1G:633:G:O4'	2.20	0.41
1:1G:996:A:H2'	1:1G:997:U:O4'	2.21	0.41
1:1G:1071:C:H2'	1:1G:1072:G:C8	2.55	0.41
1:1G:1512:U:H2'	1:1G:1513:A:H8	1.83	0.41
2:12:131:PRO:HD2	2:12:134:GLU:OE1	2.20	0.41
4:32:9:CYS:SG	4:32:22:LYS:HE3	2.60	0.41
7:62:73:MET:CG	7:62:90:GLU:HA	2.51	0.41
7:62:141:VAL:C	7:62:143:ARG:H	2.26	0.41
11:2A:103:LEU:HD12	11:2A:103:LEU:HA	1.86	0.41
20:BA:56:MET:HE2	20:BA:56:MET:HB3	1.90	0.41
23:2L:53:G:H2'	23:2L:54:G:C8	2.56	0.41
26:14:106:C:H2'	26:14:107:C:C6	2.55	0.41
26:14:363(B):G:H2'	26:14:363(C):G:C8	2.55	0.41
26:14:866:A:N6	26:14:914:C:C5	2.88	0.41
26:14:1022:G:C5	26:14:1140:C:C4	3.08	0.41
26:14:1093:G:H1'	26:14:1098:A:H62	1.85	0.41
26:14:1677:A:H2'	26:14:1678:G:C8	2.55	0.41
26:14:1909:C:H2'	26:14:1910:G:C8	2.56	0.41
26:14:2402:C:H5'	26:14:2403:C:OP2	2.21	0.41
26:14:2745:C:H1'	33:59:143:GLN:O	2.21	0.41
28:79:50:ASP:CG	28:79:52:ARG:HB3	2.45	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:19:45:ASN:HB3	29:19:46:GLN:H	1.50	0.41
31:39:192:LEU:HD13	31:39:194:MET:CE	2.50	0.41
38:45:46:GLN:NE2	38:45:126:PRO:HG3	2.35	0.41
39:55:79:LEU:O	39:55:79:LEU:HD22	2.21	0.41
42:85:29:SER:C	42:85:30:LYS:HD3	2.45	0.41
42:85:43:GLY:HA3	43:95:73:SER:OG	2.20	0.41
53:J5:16:ARG:NH1	53:J5:17:ASP:OD1	2.43	0.41
54:L5:30:VAL:HG22	54:L5:33:ARG:HH12	1.85	0.41
1:13:122:G:H8	1:13:122:G:OP1	2.03	0.41
1:13:692:U:H2'	1:13:694:A:OP2	2.21	0.41
1:13:1207:G:H2'	1:13:1208:C:C6	2.56	0.41
2:1E:19:HIS:HB3	2:1E:20:GLU:HG2	2.03	0.41
2:1E:164:VAL:HB	2:1E:186:ALA:HB2	2.01	0.41
4:3E:162:LEU:HD22	4:3E:178:VAL:HG13	2.03	0.41
9:8E:128:ARG:NH2	23:2K:36:A:OP2	2.51	0.41
17:8I:29:HIS:N	17:8I:34:LYS:O	2.54	0.41
24:3K:56:C:C2	24:3K:57:G:C8	3.08	0.41
24:3K:71:C:H1'	26:1H:1851:U:H1'	2.02	0.41
26:1H:36:G:C5	26:1H:37:C:C5	3.09	0.41
26:1H:146:G:C6	26:1H:147:U:C4	3.09	0.41
26:1H:300:A:N6	60:1H:3591:HOH:O	2.31	0.41
26:1H:760:G:H2'	26:1H:761:A:O4'	2.21	0.41
26:1H:1009:A:OP1	35:58:37:LYS:NZ	2.54	0.41
26:1H:1299:G:H3'	26:1H:1639:U:O4	2.20	0.41
26:1H:1614:A:N1	44:E8:91:GLY:HA2	2.36	0.41
26:1H:1651:G:H5'	39:98:39:PRO:HG2	2.03	0.41
26:1H:1697:G:N1	26:1H:1698:A:N1	2.68	0.41
26:1H:1906:G:C8	26:1H:1929:G:C4	3.08	0.41
26:1H:1915:U:H2'	26:1H:1916:A:O4'	2.21	0.41
26:1H:2074:U:N3	26:1H:2075:U:C4	2.89	0.41
26:1H:2443:C:H2'	26:1H:2444:G:H8	1.85	0.41
26:1H:2709:G:H2'	26:1H:2710:C:O4'	2.21	0.41
26:1H:2785:C:O2'	30:21:64:LYS:HD3	2.21	0.41
26:1H:2801:A:C8	26:1H:2802:G:C8	3.08	0.41
26:1H:2845:G:H5''	41:B8:54:ARG:O	2.21	0.41
35:58:57:ALA:O	35:58:58:ASP:CG	2.63	0.41
39:98:75:LEU:HD23	39:98:75:LEU:O	2.20	0.41
44:E8:29:LEU:HD13	44:E8:51:LEU:HD22	2.03	0.41
1:1G:174:C:H6	1:1G:174:C:H5'	1.85	0.41
1:1G:452:A:O2'	1:1G:453:A:O4'	2.37	0.41
1:1G:747:C:H3'	1:1G:748:C:C5	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:924:C:H42	1:1G:1392:G:H1	1.69	0.41
1:1G:1126:U:C5	1:1G:1281:U:C6	3.08	0.41
1:1G:1203:C:H2'	1:1G:1204:A:H8	1.86	0.41
1:1G:1260:C:O5'	1:1G:1284:C:H4'	2.21	0.41
1:1G:1472:U:H2'	1:1G:1473:A:O4'	2.20	0.41
2:12:95:GLN:HB2	2:12:148:TYR:HA	2.01	0.41
2:12:211:ILE:HD12	2:12:211:ILE:HA	1.69	0.41
3:22:40:ARG:O	3:22:44:GLU:N	2.52	0.41
5:42:143:ARG:HH21	5:42:147:ASP:CG	2.28	0.41
10:1A:78:ASN:HB2	10:1A:79:ARG:NH1	2.35	0.41
12:3A:62:SER:O	12:3A:64:TYR:N	2.53	0.41
14:5A:59:ALA:HB1	14:5A:61:TRP:CZ3	2.55	0.41
18:9A:21:LYS:NZ	18:9A:57:GLY:HA3	2.35	0.41
18:9A:66:LEU:O	18:9A:70:ILE:HG13	2.21	0.41
23:2L:20:G:C4	23:2L:58:A:C2	3.09	0.41
26:14:38:A:H2'	26:14:39:C:C6	2.56	0.41
26:14:288:C:H2'	26:14:289:A:C8	2.56	0.41
26:14:565:C:H4'	26:14:1253:A:C6	2.55	0.41
26:14:568:U:H3'	60:14:3444:HOH:O	2.21	0.41
26:14:618(A):C:OP2	31:39:103:LYS:HE2	2.20	0.41
26:14:948:G:N2	26:14:970:C:O2	2.54	0.41
26:14:1019:U:H3	26:14:1142(A):A:H62	1.68	0.41
26:14:1331:A:O2'	26:14:1332:G:H8	2.02	0.41
26:14:1337:G:H2'	26:14:1338:G:H8	1.85	0.41
26:14:1410:G:H2'	26:14:1411:C:C6	2.56	0.41
26:14:1484:G:C4	26:14:1485:G:C8	3.09	0.41
26:14:1534:G:H5'	26:14:1535:U:O5'	2.20	0.41
26:14:1899:G:O2'	26:14:1900:A:H5''	2.20	0.41
26:14:2078:C:H2'	26:14:2079:U:C6	2.56	0.41
26:14:2127:G:H2'	26:14:2128:C:O4'	2.20	0.41
26:14:2129:C:N3	26:14:2160:G:C2	2.89	0.41
26:14:2820:A:O5'	39:55:4:LEU:HD23	2.21	0.41
29:19:115:GLN:HG2	29:19:116:GLN:N	2.35	0.41
30:29:109:LYS:O	30:29:161:GLY:HA3	2.21	0.41
31:39:32:LEU:HD23	31:39:32:LEU:O	2.20	0.41
31:39:125:LEU:HD12	31:39:125:LEU:O	2.20	0.41
31:39:169:ASN:ND2	31:39:169:ASN:O	2.54	0.41
35:15:137:LYS:HD3	35:15:137:LYS:HA	1.68	0.41
37:35:55:ARG:HG2	37:35:56:SER:N	2.33	0.41
37:35:121:LYS:HG3	37:35:122:PRO:HD2	2.02	0.41
40:65:110:LEU:HD13	40:65:112:PHE:CE1	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:75:106:SER:HA	41:75:110:ILE:CD1	2.45	0.41
42:85:41:ALA:O	42:85:45:TYR:HD1	2.04	0.41
42:85:52:ARG:O	42:85:52:ARG:HG3	2.20	0.41
46:C5:13:VAL:HG13	46:C5:27:VAL:HG23	2.02	0.41
47:D5:10:ARG:HD2	47:D5:36:LYS:HD2	2.03	0.41
47:D5:129:SER:OG	47:D5:130:PRO:HD2	2.21	0.41
1:13:406:G:H2'	1:13:407:G:C8	2.56	0.41
1:13:676:A:H5''	11:21:113:PRO:HB3	2.02	0.41
1:13:980:C:H2'	1:13:981:U:O4'	2.21	0.41
1:13:1053:G:C4'	1:13:1054:C:H5'	2.50	0.41
1:13:1133:G:C2	1:13:1134:G:C8	3.09	0.41
1:13:1431:C:H2'	1:13:1432:G:O4'	2.21	0.41
2:1E:8:LYS:NZ	2:1E:10:LEU:HB2	2.35	0.41
2:1E:55:PHE:CZ	2:1E:218:ALA:HA	2.56	0.41
5:4E:69:VAL:HA	5:4E:70:PRO:HD3	1.89	0.41
7:6E:89:MET:HE1	7:6E:155:ARG:HG2	2.03	0.41
8:7E:1:MET:HE3	8:7E:3:THR:CG2	2.47	0.41
26:1H:152:G:H2'	26:1H:153:C:C6	2.55	0.41
26:1H:384:U:O2'	26:1H:385:C:H5'	2.21	0.41
26:1H:528:A:N1	26:1H:2042:A:H2'	2.36	0.41
26:1H:635:C:H2'	26:1H:636:G:O4'	2.20	0.41
26:1H:652:C:N4	26:1H:653:A:H62	2.18	0.41
26:1H:780:G:N2	26:1H:783:A:H62	1.99	0.41
26:1H:958:U:OP2	38:88:14:ARG:HD3	2.21	0.41
26:1H:1931:U:H5	26:1H:1969:A:N7	2.19	0.41
26:1H:2238:G:H2'	26:1H:2238:G:N3	2.36	0.41
26:1H:2330:G:H2'	26:1H:2331:G:O4'	2.20	0.41
26:1H:2331:G:C4'	48:I8:42:GLY:HA3	2.50	0.41
30:21:34:VAL:HG21	30:21:77:ILE:CD1	2.51	0.41
30:21:47:VAL:HG11	30:21:86:PRO:CD	2.51	0.41
31:31:29:ASN:N	31:31:112:MET:HE1	2.35	0.41
35:58:40:PRO:O	42:C8:100:VAL:HG22	2.20	0.41
43:D8:44:LYS:C	43:D8:46:VAL:N	2.79	0.41
44:E8:41:LYS:HE3	44:E8:41:LYS:HB3	1.94	0.41
47:H8:92:SER:OG	47:H8:94:GLU:OE1	2.39	0.41
1:1G:95:G:H2'	1:1G:96:G:O4'	2.20	0.41
1:1G:303:A:H2'	1:1G:304:U:O4'	2.21	0.41
1:1G:350:G:H5'	1:1G:351:G:OP2	2.21	0.41
1:1G:384:G:H2'	1:1G:385:C:C6	2.55	0.41
1:1G:616:G:C2	1:1G:617:G:C8	3.09	0.41
1:1G:973:G:O6	1:1G:974:A:N6	2.54	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1128:C:H5''	9:82:16:ARG:HH22	1.86	0.41
1:1G:1326:C:H2'	1:1G:1327:C:C6	2.56	0.41
1:1G:1508:G:H2'	1:1G:1509:C:O4'	2.20	0.41
2:12:166:ASP:HB3	2:12:169:LYS:HB2	2.03	0.41
17:8A:10:VAL:HA	17:8A:20:THR:O	2.21	0.41
24:3L:57:G:H2'	24:3L:57:G:N3	2.36	0.41
26:14:161:U:C5'	26:14:171:G:H21	2.30	0.41
26:14:537:C:H5'	26:14:539:G:OP2	2.21	0.41
26:14:937:U:H2'	26:14:938:G:O4'	2.21	0.41
26:14:1100:C:HO2'	26:14:1101:U:H6	1.67	0.41
26:14:1702:G:H2'	26:14:1703:G:O4'	2.21	0.41
26:14:2107:C:H2'	26:14:2108:C:C6	2.55	0.41
26:14:2136:C:H2'	26:14:2137:C:C6	2.55	0.41
26:14:2299:G:C6	26:14:2318:G:C8	3.08	0.41
26:14:2302:G:N1	26:14:2315:G:C6	2.89	0.41
26:14:2740:A:C6	26:14:2741:A:C6	3.08	0.41
26:14:2850:A:H2'	26:14:2851:A:O4'	2.20	0.41
27:1J:16:G:O6	27:1J:66:A:H2	2.02	0.41
30:29:47:VAL:HG21	30:29:86:PRO:HD2	2.02	0.41
31:39:143:ALA:O	31:39:148:LEU:HB2	2.20	0.41
37:35:39:LYS:HA	37:35:45:LEU:CD1	2.51	0.41
41:75:50:ILE:HD13	41:75:99:LEU:HB2	2.03	0.41
1:13:31:G:H2'	1:13:48:C:N4	2.36	0.41
1:13:195:A:C5	1:13:196:A:N1	2.89	0.41
1:13:247:G:O6	1:13:278:G:C6	2.74	0.41
1:13:360:A:H2'	1:13:361:G:C8	2.56	0.41
1:13:467:G:OP2	1:13:467:G:H3'	2.21	0.41
1:13:516:U:C4	1:13:517:G:C6	3.09	0.41
1:13:519:C:H2'	1:13:520:A:C8	2.56	0.41
1:13:591:U:H2'	1:13:592:G:C8	2.56	0.41
1:13:639:G:C2	1:13:640:A:C8	3.09	0.41
1:13:643:C:H2'	1:13:644:G:H8	1.84	0.41
1:13:687:A:H2'	1:13:701:C:H41	1.86	0.41
1:13:781:A:H5'	1:13:782:A:OP2	2.21	0.41
1:13:920:U:O2'	1:13:921:U:H5'	2.20	0.41
1:13:945:G:N3	1:13:945:G:H2'	2.36	0.41
1:13:1032(A):G:H2'	1:13:1032(B):G:N7	2.35	0.41
1:13:1106:G:C4	1:13:1107:C:C5	3.09	0.41
1:13:1306:A:H62	1:13:1331:G:H21	1.68	0.41
1:13:1368:G:C2'	1:13:1369:C:H5'	2.51	0.41
1:13:1473:A:H2'	1:13:1474:G:C8	2.56	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1E:71:VAL:HG23	2:1E:164:VAL:HG13	2.03	0.41
2:1E:238:LEU:O	2:1E:239:VAL:HB	2.21	0.41
6:5E:75:LEU:CD1	6:5E:79:LEU:HD11	2.51	0.41
7:6E:22:LEU:HD22	7:6E:62:PHE:HE2	1.78	0.41
7:6E:38:LEU:O	7:6E:38:LEU:HD13	2.21	0.41
7:6E:103:TRP:CH2	7:6E:141:VAL:HG21	2.56	0.41
11:2I:45:GLY:O	11:2I:50:TYR:HB2	2.21	0.41
13:4I:82:MET:C	13:4I:84:ILE:N	2.77	0.41
14:5I:50:LYS:HB2	14:5I:52:GLN:HG3	2.02	0.41
15:6I:32:LEU:O	15:6I:35:ARG:N	2.54	0.41
16:7I:37:GLY:HA3	16:7I:50:LYS:O	2.20	0.41
17:8I:58:GLU:O	17:8I:74:LEU:N	2.31	0.41
19:AI:40:ILE:HA	19:AI:44:MET:HE3	2.03	0.41
19:AI:80:TYR:HD1	19:AI:80:TYR:HA	1.74	0.41
22:1K:24:G:C5	22:1K:25:C:C4	3.09	0.41
26:1H:311:A:C8	26:1H:332:A:N7	2.89	0.41
26:1H:324:A:C8	26:1H:325:G:C8	3.08	0.41
26:1H:330:A:H2	26:1H:1210:A:O2'	2.03	0.41
26:1H:547:A:N3	26:1H:548:A:C6	2.89	0.41
26:1H:717:G:H2'	26:1H:718:A:O4'	2.21	0.41
26:1H:1045:A:H4'	26:1H:1045:A:OP1	2.20	0.41
26:1H:1161:C:H1'	43:D8:8:GLY:O	2.20	0.41
26:1H:1219:G:OP2	42:C8:19:LYS:NZ	2.54	0.41
26:1H:1329:U:H3'	26:1H:1330:C:C6	2.56	0.41
26:1H:1534:G:N2	26:1H:1535:U:H5	2.17	0.41
26:1H:1709:U:H2'	26:1H:1710:C:C6	2.55	0.41
26:1H:2017:U:O2	53:N8:10:LYS:HB2	2.21	0.41
26:1H:2261:C:C5	48:I8:16:SER:HB3	2.55	0.41
26:1H:2314:C:OP1	32:41:91:ARG:NH1	2.53	0.41
26:1H:2430:A:H8	26:1H:2431:U:C5	2.39	0.41
26:1H:2455:G:H2'	26:1H:2456:C:C6	2.56	0.41
26:1H:2599:G:C8	29:11:236:GLY:HA2	2.55	0.41
26:1H:2688:U:O2	26:1H:2688:U:H3'	2.21	0.41
26:1H:2880:C:H1'	39:98:92:GLY:O	2.20	0.41
27:16:4:C:H42	27:16:116:G:H1	1.68	0.41
27:16:44:G:OP1	32:41:98:ARG:NH2	2.45	0.41
28:71:181:PRO:HD2	28:71:184:LYS:HG3	2.03	0.41
30:21:102:VAL:HG22	30:21:170:LEU:O	2.20	0.41
31:31:53:THR:N	31:31:56:GLU:OE2	2.42	0.41
32:41:145:THR:C	32:41:147:ASP:H	2.29	0.41
34:61:10:GLU:O	34:61:11:ASN:HB2	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:61:120:ILE:HD11	34:61:126:TYR:CZ	2.55	0.41
35:58:23:LEU:HD12	35:58:23:LEU:HA	1.70	0.41
37:78:15:ARG:NH1	37:78:17:LYS:HD2	2.36	0.41
37:78:82:GLY:HA2	37:78:113:LYS:O	2.21	0.41
38:88:35:VAL:HG23	38:88:101:ARG:O	2.20	0.41
39:98:29:LEU:CB	39:98:75:LEU:HD21	2.50	0.41
39:98:117:VAL:HG22	39:98:118:GLU:H	1.85	0.41
40:A8:62:LYS:HA	40:A8:65:VAL:HB	2.01	0.41
42:C8:95:LEU:HA	42:C8:97:ASP:HB3	2.02	0.41
44:E8:64:MET:HE2	44:E8:64:MET:HB3	1.84	0.41
45:F8:40:LYS:HG3	45:F8:51:VAL:HB	2.03	0.41
47:H8:60:GLU:HA	47:H8:65:GLN:O	2.20	0.41
47:H8:98:MET:O	47:H8:125:LEU:HD12	2.21	0.41
49:J8:83:GLU:H	49:J8:83:GLU:HG2	1.62	0.41
49:J8:85:LEU:HA	49:J8:85:LEU:HD13	1.59	0.41
55:Q8:25:MET:SD	55:Q8:47:LYS:HB2	2.61	0.41
1:1G:42:G:H2'	1:1G:43:C:O4'	2.21	0.41
1:1G:127:G:OP1	1:1G:635:G:H1'	2.21	0.41
1:1G:186(C):G:H2'	1:1G:186(D):C:C6	2.56	0.41
1:1G:238:G:C6	1:1G:239:U:C4	3.09	0.41
1:1G:382:A:H8	1:1G:382:A:O5'	2.04	0.41
1:1G:391:G:C6	1:1G:392:G:C5	3.09	0.41
1:1G:401:C:O2'	1:1G:621:A:N3	2.51	0.41
1:1G:543:C:C2'	1:1G:544:G:H5'	2.51	0.41
1:1G:582:U:C2	1:1G:760:G:C6	3.09	0.41
1:1G:658:G:C6	1:1G:659:U:C4	3.09	0.41
1:1G:790:A:C2	1:1G:1497:G:H5''	2.56	0.41
1:1G:952:U:H4'	1:1G:964:A:N1	2.36	0.41
1:1G:977:A:C8	1:1G:1223:C:N3	2.89	0.41
1:1G:1003:G:N2	1:1G:1005:A:OP1	2.53	0.41
1:1G:1004:A:H8	1:1G:1026:G:C8	2.39	0.41
1:1G:1040:U:H2'	1:1G:1041:A:O4'	2.21	0.41
1:1G:1071:C:H2'	1:1G:1072:G:H8	1.86	0.41
1:1G:1157:A:OP1	1:1G:1158:C:C5	2.73	0.41
1:1G:1207:G:C6	1:1G:1208:C:C4	3.09	0.41
1:1G:1207:G:C2	1:1G:1208:C:C2	3.09	0.41
1:1G:1267:C:O2	21:1B:20:LYS:HD2	2.21	0.41
1:1G:1331:G:H4'	1:1G:1331:G:OP1	2.21	0.41
1:1G:1357:A:N7	1:1G:1358:U:C4	2.88	0.41
1:1G:1408:A:C5	1:1G:1409:C:C5	3.09	0.41
1:1G:1436:U:H2'	1:1G:1437:C:O4'	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1478:C:H2'	1:1G:1479:C:H6	1.86	0.41
2:12:220:ASP:HB2	2:12:224:GLN:CG	2.35	0.41
4:32:23:GLY:O	4:32:27:TYR:HD2	2.04	0.41
4:32:60:GLU:OE2	4:32:198:VAL:HA	2.21	0.41
4:32:96:LEU:HD13	4:32:139:ARG:NH1	2.36	0.41
7:62:141:VAL:HA	7:62:142:GLU:CB	2.50	0.41
8:72:8:ASP:OD2	8:72:12:ARG:HD2	2.20	0.41
9:82:54:ASP:OD1	9:82:54:ASP:N	2.54	0.41
12:3A:117:ARG:HH21	12:3A:124:LYS:N	2.19	0.41
16:7A:72:ARG:HD2	16:7A:73:LEU:HD23	2.03	0.41
19:AA:63:THR:OG1	19:AA:65:ASN:O	2.39	0.41
20:BA:24:LEU:HA	20:BA:24:LEU:HD13	1.62	0.41
21:1B:2:GLY:C	21:1B:4:GLY:N	2.79	0.41
22:1L:41:A:C2	22:1L:42:A:H1'	2.56	0.41
22:1L:76:A:C2	23:2L:77:A:H4'	2.54	0.41
24:3L:17:U:H5'	24:3L:18:G:OP2	2.21	0.41
26:14:67:U:H2'	26:14:68:G:H8	1.85	0.41
26:14:244:A:C2	26:14:255:A:C4	3.09	0.41
26:14:315:G:C6	26:14:316:C:C4	3.09	0.41
26:14:398:G:H2'	26:14:399:G:H8	1.84	0.41
26:14:431:U:H6	26:14:431:U:O5'	2.04	0.41
26:14:432:A:C6	26:14:433:C:C4	3.09	0.41
26:14:442:G:C4	26:14:444:C:C5	3.08	0.41
26:14:529:A:H8	26:14:530:G:C6	2.38	0.41
26:14:533:G:H2'	26:14:534:U:O4'	2.20	0.41
26:14:577:G:C6	26:14:578:A:C6	3.09	0.41
26:14:654(A):A:C2	26:14:654(T):A:N7	2.89	0.41
26:14:672:C:H2'	26:14:673:C:C6	2.56	0.41
26:14:675:A:N3	26:14:2443:C:O2'	2.47	0.41
26:14:678:C:H2'	26:14:679:C:C6	2.56	0.41
26:14:729:G:H2'	26:14:1775:U:O2	2.21	0.41
26:14:1107:G:H2'	26:14:1108:U:H5'	2.03	0.41
26:14:1142(A):A:N7	26:14:1144:G:C6	2.89	0.41
26:14:1146:C:H2'	26:14:1147:C:H5'	2.01	0.41
26:14:1517:G:H2'	26:14:1518:C:C6	2.56	0.41
26:14:1543:A:H1'	26:14:1545:A:H1'	2.03	0.41
26:14:1791:A:H8	26:14:1791:A:OP2	2.04	0.41
26:14:1925:C:C2'	26:14:1926:U:H5'	2.51	0.41
26:14:2086:U:H2'	26:14:2087:G:C8	2.55	0.41
26:14:2132:U:O4'	28:79:5:LYS:HD3	2.21	0.41
26:14:2177:C:O2'	28:79:170:ALA:HB1	2.20	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2380:C:OP1	40:65:20:ARG:CZ	2.69	0.41
26:14:2570:G:H2'	26:14:2571:C:O4'	2.21	0.41
26:14:2648:C:H2'	26:14:2649:U:C6	2.56	0.41
26:14:2654:A:H8	26:14:2654:A:OP1	2.04	0.41
26:14:2872:G:C5	26:14:2873:A:C2	3.09	0.41
27:1J:12:C:O2'	48:E5:74:ARG:HB3	2.21	0.41
27:1J:15:A:H5'	27:1J:16:G:H8	1.85	0.41
27:1J:84:C:OP1	51:H5:15:TYR:OH	2.31	0.41
28:79:42:GLU:OE1	28:79:44:HIS:CE1	2.74	0.41
28:79:46:LYS:HB2	28:79:210:ARG:HB2	2.03	0.41
31:39:85:GLY:O	60:39:401:HOH:O	2.22	0.41
31:39:156:LEU:HD21	31:39:163:VAL:HG12	2.03	0.41
32:49:107:LEU:HD11	32:49:178:PHE:CE1	2.56	0.41
34:69:60:GLU:HG3	34:69:61:ARG:N	2.35	0.41
37:35:63:PRO:HB3	55:M5:30:ARG:NH2	2.36	0.41
39:55:33:ARG:HD3	39:55:115:GLU:HB3	2.03	0.41
39:55:98:LEU:HD23	39:55:98:LEU:HA	1.89	0.41
41:75:13:ARG:CD	41:75:13:ARG:H	2.34	0.41
47:D5:44:PHE:C	47:D5:44:PHE:CD1	2.99	0.41
47:D5:48:PHE:HE1	47:D5:71:VAL:HG21	1.86	0.41
47:D5:137:ILE:HD12	47:D5:156:LYS:O	2.21	0.41
49:F5:40:ARG:HD2	49:F5:41:ARG:N	2.36	0.41
49:F5:86:SER:N	49:F5:87:PRO:CD	2.84	0.41
50:G5:10:LEU:HD12	50:G5:10:LEU:HA	1.95	0.41
54:L5:22:MET:HB3	54:L5:22:MET:HE3	1.75	0.41
55:M5:58:ILE:H	55:M5:58:ILE:HG22	1.57	0.41
1:13:112:G:C4'	1:13:389:A:H4'	2.51	0.41
1:13:146:G:C2	1:13:177:C:N3	2.89	0.41
1:13:455:C:N4	1:13:477:G:N2	2.63	0.41
1:13:477:G:H2'	1:13:478:A:C8	2.56	0.41
1:13:892:A:O2'	1:13:1415:G:H4'	2.20	0.41
1:13:1178:G:N2	1:13:1181:G:H8	2.19	0.41
1:13:1363:A:H4'	1:13:1364:U:H2'	2.01	0.41
2:1E:134:GLU:CD	2:1E:137:ARG:HH22	2.28	0.41
4:3E:156:GLU:O	4:3E:160:GLN:HB3	2.20	0.41
4:3E:190:ASP:O	4:3E:193:ASP:HB2	2.21	0.41
9:8E:10:ARG:HD2	9:8E:75:ASP:HB2	2.03	0.41
12:3I:60:LEU:HD12	12:3I:60:LEU:HA	1.69	0.41
17:8I:90:ILE:O	17:8I:93:GLN:N	2.54	0.41
19:AI:67:VAL:HG12	19:AI:68:GLY:N	2.35	0.41
23:2K:20:G:N3	23:2K:58:A:N3	2.69	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:3K:3:G:H2'	24:3K:4:U:O4'	2.20	0.41
24:3K:9:A:H3'	24:3K:10:G:C8	2.56	0.41
26:1H:56:A:C2	26:1H:57:C:C2	3.09	0.41
26:1H:185:U:H4'	26:1H:218:A:H4'	2.02	0.41
26:1H:537:C:H2'	26:1H:539:G:H8	1.86	0.41
26:1H:638:G:H2'	26:1H:639:U:C6	2.56	0.41
26:1H:807:U:C2	26:1H:808:G:C8	3.09	0.41
26:1H:1184:G:C5	26:1H:1185:C:C5	3.09	0.41
26:1H:1337:G:H2'	26:1H:1338:G:C8	2.56	0.41
26:1H:1347:G:C2	26:1H:1600:C:O2	2.74	0.41
26:1H:2327:A:H2'	26:1H:2328:A:H8	1.83	0.41
30:21:45:THR:O	30:21:83:ASP:N	2.54	0.41
31:31:116:ASP:OD2	37:78:1:MET:HB3	2.21	0.41
37:78:50:ARG:NH2	37:78:50:ARG:HG3	2.36	0.41
39:98:9:LYS:HA	39:98:17:ARG:HD3	2.02	0.41
42:C8:90:VAL:HG22	43:D8:39:LEU:HD22	2.02	0.41
43:D8:44:LYS:HB3	43:D8:45:THR:H	1.75	0.41
52:M8:38:LYS:HD2	52:M8:38:LYS:N	2.36	0.41
55:Q8:13:ARG:C	55:Q8:14:VAL:HG23	2.46	0.41
55:Q8:45:GLY:O	55:Q8:46:ARG:C	2.63	0.41
1:1G:199:G:H2'	1:1G:200:G:H8	1.86	0.41
1:1G:318:G:H2'	1:1G:319:G:C8	2.56	0.41
1:1G:620:C:H2'	1:1G:621:A:O4'	2.21	0.41
1:1G:1022:G:N3	1:1G:1023:G:H1'	2.36	0.41
1:1G:1111:A:H8	1:1G:1111:A:O5'	2.04	0.41
1:1G:1256:A:H4'	1:1G:1257:U:OP1	2.21	0.41
1:1G:1261:A:H3'	1:1G:1262:C:C6	2.57	0.41
1:1G:1265:G:C2	1:1G:1271:G:C6	3.09	0.41
3:22:172:ARG:HB3	3:22:172:ARG:NH1	2.35	0.41
8:72:17:THR:HB	8:72:18:ARG:HH11	1.86	0.41
8:72:86:ILE:HD11	8:72:136:GLU:HG2	2.03	0.41
9:82:51:ARG:HA	9:82:56:LEU:HD22	2.03	0.41
10:1A:81:THR:HA	10:1A:84:GLN:NE2	2.35	0.41
14:5A:9:LYS:CB	14:5A:12:ARG:HH12	2.33	0.41
16:7A:4:ILE:HB	16:7A:66:PRO:HA	2.04	0.41
26:14:35:G:H2'	26:14:36:G:O4'	2.21	0.41
26:14:751:A:H4'	44:A5:90:ARG:NH1	2.36	0.41
26:14:880:G:N7	26:14:897:C:N4	2.68	0.41
26:14:1011:G:C2	26:14:1151:G:C2	3.09	0.41
26:14:1225:C:H4'	43:95:85:LYS:HG2	2.03	0.41
26:14:1732:A:H2'	26:14:1733:G:O4'	2.21	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:2001:A:H2'	26:14:2002:G:C8	2.56	0.41
26:14:2025:C:H2'	26:14:2026:C:C6	2.56	0.41
26:14:2365:G:H2'	26:14:2366:A:C8	2.56	0.41
26:14:2475:C:C5'	26:14:2476:A:H5''	2.48	0.41
26:14:2531:A:H5''	33:59:157:TYR:CE2	2.57	0.41
26:14:2547:U:H2'	26:14:2548:G:H8	1.86	0.41
26:14:2849:U:H1'	26:14:2866:U:O2	2.21	0.41
26:14:2863:C:O2'	26:14:2864:G:H5'	2.21	0.41
29:19:133:LEU:HB3	29:19:173:VAL:HG11	2.03	0.41
30:29:4:ILE:HD11	30:29:198:VAL:HB	2.02	0.41
30:29:14:ILE:HB	41:75:14:TYR:CE2	2.56	0.41
30:29:35:GLN:HG2	30:29:37:ARG:HG2	2.02	0.41
30:29:55:ASN:O	30:29:57:LYS:N	2.47	0.41
31:39:80:ALA:O	31:39:83:PHE:HB2	2.21	0.41
37:35:85:LEU:HD12	37:35:120:ALA:HA	2.03	0.41
37:35:132:LYS:NZ	37:35:135:LEU:HD11	2.35	0.41
38:45:26:TYR:O	38:45:28:ALA:N	2.54	0.41
38:45:98:LYS:HB3	38:45:99:PRO:HD2	2.03	0.41
39:55:28:LEU:CD2	39:55:114:VAL:HG12	2.50	0.41
40:65:77:ALA:HA	40:65:80:LEU:HB2	2.02	0.41
42:85:27:LEU:O	42:85:31:SER:N	2.46	0.41
46:C5:46:LYS:HD2	46:C5:61:ILE:N	2.36	0.41
55:M5:10:ALA:HB3	55:M5:62:LEU:HD21	2.03	0.41
1:13:11:G:C5	1:13:12:U:C4	3.08	0.40
1:13:303:A:C4	1:13:304:U:C6	3.09	0.40
1:13:370:C:O2'	1:13:371:G:H5'	2.22	0.40
1:13:403:C:OP2	4:3E:74:GLN:NE2	2.54	0.40
1:13:526:C:O5'	1:13:526:C:H6	2.04	0.40
1:13:562:C:H1'	12:3I:15:ARG:HB3	2.03	0.40
1:13:606:G:H2'	1:13:630:G:O6	2.20	0.40
1:13:637:G:H2'	1:13:638:G:C8	2.56	0.40
1:13:784:C:H2'	1:13:785:G:C8	2.56	0.40
1:13:827:U:H5	1:13:872:A:N1	2.18	0.40
1:13:1060:C:H2'	1:13:1061:G:C8	2.56	0.40
1:13:1138:G:C5	1:13:1140:C:H1'	2.56	0.40
1:13:1360:A:H3'	1:13:1361:G:H8	1.86	0.40
1:13:1442:G:C8	1:13:1442:G:H3'	2.56	0.40
12:3I:47:LYS:NZ	25:4K:21:A:OP1	2.54	0.40
12:3I:85:ILE:HG23	12:3I:85:ILE:HD12	1.64	0.40
20:BI:54:LYS:HD3	20:BI:54:LYS:C	2.45	0.40
22:1K:6:G:N2	22:1K:67:C:O2'	2.53	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:122:G:H2'	26:1H:123:G:H5''	2.03	0.40
26:1H:270(E):G:H1	26:1H:270(U):C:N4	2.19	0.40
26:1H:270(F):U:H3	26:1H:270(T):G:H1	1.68	0.40
26:1H:354:G:H2'	26:1H:355:G:C8	2.56	0.40
26:1H:389:G:H22	37:78:72:PRO:HD3	1.86	0.40
26:1H:663:G:OP1	37:78:17:LYS:HB3	2.21	0.40
26:1H:882:G:H1	26:1H:894:C:N4	2.10	0.40
26:1H:906:G:OP1	38:88:26:TYR:OH	2.15	0.40
26:1H:1250:G:OP2	37:78:21:ARG:HD2	2.22	0.40
26:1H:1316:U:H2'	26:1H:1317:A:C8	2.56	0.40
26:1H:1469:A:C6	26:1H:1524:G:C6	3.10	0.40
26:1H:1696:G:C5	26:1H:1697:G:C8	3.09	0.40
26:1H:2136:C:N4	26:1H:2156:G:N3	2.69	0.40
26:1H:2199:A:H5''	26:1H:2205:C:OP2	2.21	0.40
26:1H:2389:G:H5''	26:1H:2390:U:O4'	2.21	0.40
26:1H:2390:U:C2'	26:1H:2391:G:H5'	2.51	0.40
26:1H:2684:U:C4	26:1H:2685:G:N7	2.90	0.40
26:1H:2749:A:OP1	33:51:6:ARG:HG2	2.21	0.40
29:11:65:ILE:HG21	29:11:65:ILE:HD13	1.65	0.40
29:11:223:GLY:O	29:11:224:ALA:C	2.64	0.40
30:21:25:VAL:HG23	30:21:181:LEU:HD12	2.02	0.40
31:31:33:LEU:HD11	31:31:112:MET:HB2	2.03	0.40
31:31:64:ILE:HA	31:31:64:ILE:HD13	1.75	0.40
32:41:116:ASP:O	52:M8:42:PHE:CZ	2.73	0.40
32:41:142:PRO:HG2	32:41:143:GLU:OE2	2.20	0.40
33:51:159:GLU:C	33:51:160:LYS:HG3	2.46	0.40
37:78:11:GLY:O	37:78:13:ASN:N	2.47	0.40
40:A8:24:LEU:HD12	40:A8:41:ASP:HB2	2.03	0.40
41:B8:88:ILE:O	41:B8:88:ILE:HG13	2.16	0.40
49:J8:85:LEU:HD12	49:J8:88:LYS:HB2	2.02	0.40
50:K8:15:LYS:HA	50:K8:67:LYS:HZ1	1.86	0.40
1:1G:51:A:C2	1:1G:353:A:N1	2.89	0.40
1:1G:123:C:H2'	1:1G:124:G:C8	2.56	0.40
1:1G:186(B):C:H2'	1:1G:186(C):G:H8	1.86	0.40
1:1G:960:U:O5'	1:1G:961:U:H5'	2.21	0.40
1:1G:1025:U:C5'	1:1G:1026:G:H5'	2.49	0.40
1:1G:1035:A:H2'	1:1G:1036:G:H4'	2.03	0.40
1:1G:1072:G:H2'	1:1G:1073:U:O4'	2.21	0.40
1:1G:1082:G:H8	1:1G:1082:G:OP2	2.04	0.40
1:1G:1137:C:O2'	1:1G:1138:G:H5''	2.22	0.40
1:1G:1202:G:O2'	14:5A:27:CYS:HB2	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:1247:U:H2'	1:1G:1248:A:O4'	2.20	0.40
1:1G:1269:A:H2	1:1G:1312:G:N3	2.19	0.40
2:12:108:ILE:HD12	2:12:108:ILE:HA	1.92	0.40
17:8A:74:LEU:HD23	17:8A:74:LEU:HA	1.86	0.40
23:2L:15:G:H21	23:2L:22:A:H1'	1.86	0.40
24:3L:26:A:H2'	24:3L:27:G:O4'	2.21	0.40
25:4L:13:A:N3	25:4L:14:A:H1'	2.37	0.40
26:14:282:A:C6	26:14:284:U:C2	3.10	0.40
26:14:289:A:H2'	26:14:290:G:H5'	2.03	0.40
26:14:527:C:OP2	26:14:2779:U:H5	2.04	0.40
26:14:1000:A:C6	26:14:1001:A:N1	2.90	0.40
26:14:1010:A:N3	26:14:1153:C:H1'	2.36	0.40
26:14:1138:G:C5	26:14:1139:G:H1'	2.56	0.40
26:14:1165:U:H2'	26:14:1166:C:H6	1.82	0.40
26:14:1278:A:C5'	39:55:36:THR:HG22	2.51	0.40
26:14:2104:G:C2	26:14:2186:G:C2	3.09	0.40
26:14:2498:C:OP2	60:14:3422:HOH:O	2.20	0.40
26:14:2572:A:O5'	26:14:2574:G:H4'	2.21	0.40
26:14:2590:A:OP2	29:19:237:GLU:HB3	2.21	0.40
26:14:2749:A:N1	26:14:2750:A:N6	2.70	0.40
28:79:202:GLU:OE2	28:79:203:GLY:N	2.55	0.40
29:19:143:HIS:HD2	29:19:144:ALA:CB	2.33	0.40
31:39:196:LEU:HD22	31:39:196:LEU:HA	1.76	0.40
33:59:9:ILE:HB	33:59:51:ARG:HD3	2.03	0.40
36:25:107:ARG:HG2	36:25:115:VAL:HG11	2.03	0.40
46:C5:12:THR:HG22	46:C5:75:ILE:HG13	2.02	0.40
49:F5:87:PRO:HA	49:F5:90:ILE:HG23	2.04	0.40
50:G5:64:LEU:HD21	50:G5:68:ARG:NH1	2.36	0.40
1:13:22:G:C6	1:13:23:C:C4	3.09	0.40
1:13:416:G:C5	1:13:417:C:C4	3.10	0.40
1:13:524:G:C6	1:13:525:C:N4	2.90	0.40
1:13:927:G:N2	1:13:1391:U:H1'	2.37	0.40
1:13:951:G:C6	1:13:1231:G:C6	3.09	0.40
1:13:1002:G:C6	1:13:1003:G:C5	3.09	0.40
1:13:1106:G:H2'	1:13:1107:C:H6	1.86	0.40
1:13:1113:C:H2'	1:13:1114:C:H6	1.85	0.40
1:13:1129:C:O2	1:13:1143:G:N2	2.54	0.40
1:13:1305:G:OP2	1:13:1305:G:C8	2.74	0.40
1:13:1455:G:O5'	1:13:1455:G:C8	2.73	0.40
2:1E:97:TRP:HH2	2:1E:176:GLU:HG3	1.85	0.40
2:1E:209:ARG:CZ	2:1E:239:VAL:HA	2.51	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:3E:99:SER:HB2	4:3E:139:ARG:HG3	2.04	0.40
7:6E:13:GLN:HG2	7:6E:14:PRO:HD2	2.03	0.40
8:7E:9:MET:O	8:7E:10:LEU:C	2.63	0.40
20:BI:90:GLN:H	20:BI:90:GLN:HG2	1.52	0.40
20:BI:90:GLN:HA	20:BI:93:GLU:HB3	2.03	0.40
22:1K:3:G:O2'	22:1K:4:U:OP2	2.29	0.40
26:1H:277:C:H3'	26:1H:278:A:O4'	2.21	0.40
26:1H:446:G:OP2	60:1H:3562:HOH:O	2.22	0.40
26:1H:469:G:O6	54:P8:37:LYS:HE2	2.21	0.40
26:1H:557:U:H2'	26:1H:558:G:H8	1.86	0.40
26:1H:593:G:H1	26:1H:664:C:H42	1.69	0.40
26:1H:746:A:H2'	26:1H:2612:C:H5''	2.03	0.40
26:1H:1663:C:O2'	26:1H:2686:G:H4'	2.21	0.40
26:1H:1728:G:C2	26:1H:1730:U:OP2	2.75	0.40
26:1H:1826:G:H2'	26:1H:1827:C:C6	2.56	0.40
26:1H:2117:A:H2'	26:1H:2147:G:N2	2.36	0.40
26:1H:2261:C:H1'	26:1H:2388:A:N3	2.36	0.40
26:1H:2820:A:O2'	26:1H:2821:A:OP1	2.36	0.40
29:11:242:ARG:O	29:11:244:ARG:HG2	2.21	0.40
29:11:271:ILE:HD13	29:11:271:ILE:HG21	1.88	0.40
33:51:124:GLU:O	33:51:132:ARG:N	2.52	0.40
34:61:1:MET:O	34:61:20:ASP:HA	2.22	0.40
47:H8:28:MET:HE2	47:H8:35:ARG:HG3	2.02	0.40
47:H8:44:PHE:CE2	47:H8:86:VAL:HG11	2.56	0.40
48:I8:75:LEU:HD23	48:I8:75:LEU:HA	1.58	0.40
53:N8:20:ARG:HA	53:N8:23:HIS:ND1	2.37	0.40
54:P8:11:LYS:HE2	54:P8:15:THR:OG1	2.22	0.40
1:1G:10:A:H2'	1:1G:11:G:C8	2.51	0.40
1:1G:193:C:H2'	1:1G:194:C:H6	1.87	0.40
1:1G:404:U:P	4:32:118:ARG:HH11	2.45	0.40
1:1G:660:G:H1	1:1G:745:C:N4	2.13	0.40
1:1G:1080:A:H3'	1:1G:1081:G:O4'	2.21	0.40
1:1G:1157:A:C5	1:1G:1181:G:H1'	2.56	0.40
1:1G:1375:A:H2'	1:1G:1376:U:O4'	2.21	0.40
1:1G:1399:C:C4	1:1G:1502:A:N6	2.89	0.40
1:1G:1442:G:C6	1:1G:1446:A:N6	2.89	0.40
1:1G:1535:C:O2'	1:1G:1536:C:H5'	2.22	0.40
5:42:30:ALA:O	5:42:45:PHE:HB2	2.20	0.40
5:42:51:VAL:O	5:42:55:VAL:HG23	2.20	0.40
7:62:27:ILE:HG12	7:62:27:ILE:H	1.71	0.40
10:1A:84:GLN:NE2	10:1A:84:GLN:H	2.19	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:2A:62:GLN:CD	11:2A:93:GLN:HE22	2.29	0.40
24:3L:9:A:H4'	24:3L:10:G:OP2	2.20	0.40
26:14:90:U:O2'	26:14:91:A:C8	2.74	0.40
26:14:141:A:H8	26:14:1595:G:N2	2.00	0.40
26:14:185:U:H2'	26:14:186:G:O4'	2.22	0.40
26:14:280:C:N3	26:14:361:G:N2	2.70	0.40
26:14:875:G:N3	26:14:876:C:H5'	2.37	0.40
26:14:1014:U:H2'	26:14:1015:G:H8	1.85	0.40
26:14:1322:A:O3'	44:A5:84:ARG:NH1	2.53	0.40
26:14:1389:G:H2'	26:14:1390:U:O4'	2.22	0.40
26:14:1542:G:H3'	26:14:1543:A:H5''	2.04	0.40
26:14:2544:G:O5'	26:14:2544:G:H8	2.04	0.40
26:14:2663:G:C5	26:14:2664:G:C5	3.10	0.40
27:1J:102:G:H8	27:1J:102:G:O5'	2.04	0.40
29:19:125:ILE:HG22	29:19:193:VAL:HG21	2.03	0.40
29:19:222:ARG:HE	29:19:222:ARG:HB2	1.67	0.40
30:29:103:ASP:CG	30:29:168:MET:HE3	2.46	0.40
31:39:5:ALA:CB	31:39:125:LEU:HD21	2.52	0.40
32:49:22:ARG:NH1	32:49:175:LEU:HD21	2.37	0.40
34:69:62:LYS:HG3	34:69:63:ALA:N	2.37	0.40
41:75:27:THR:HB	41:75:89:VAL:HG22	2.03	0.40
42:85:100:VAL:HG13	42:85:101:ARG:HD3	2.02	0.40
46:C5:47:LYS:O	46:C5:48:ALA:C	2.64	0.40
47:D5:29:TYR:HB3	47:D5:34:ASN:HB2	2.03	0.40
47:D5:82:ARG:HA	47:D5:83:PRO:HD3	1.92	0.40
48:E5:38:VAL:CG1	48:E5:59:LEU:HG	2.51	0.40
1:13:674:G:N2	1:13:717:C:O2	2.54	0.40
1:13:691:G:H1'	1:13:696:A:N6	2.36	0.40
1:13:972:C:OP2	10:1I:57:LYS:HE2	2.21	0.40
3:2E:134:ILE:HD11	3:2E:153:VAL:HG23	2.04	0.40
4:3E:138:TYR:CD1	4:3E:138:TYR:C	2.99	0.40
5:4E:113:ALA:O	5:4E:115:VAL:HG23	2.21	0.40
11:2I:73:MET:CE	11:2I:103:LEU:HD13	2.42	0.40
12:3I:50:SER:O	12:3I:51:ALA:HB2	2.22	0.40
15:6I:17:ARG:HG2	15:6I:21:ASP:OD2	2.20	0.40
16:7I:20:VAL:CG2	16:7I:32:TYR:CB	3.00	0.40
22:1K:64:G:H3'	22:1K:65:C:C6	2.56	0.40
24:3K:14:A:C6	24:3K:15:G:C6	3.09	0.40
26:1H:96:G:H4'	50:K8:48:HIS:CD2	2.56	0.40
26:1H:247:G:H4'	26:1H:386:G:C5	2.56	0.40
26:1H:270:A:OP2	26:1H:270(Y):G:N1	2.41	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:753:C:O2'	26:1H:754:C:H5'	2.20	0.40
26:1H:1526:G:N2	26:1H:1545(A):A:H62	2.19	0.40
26:1H:1697:G:C6	26:1H:1698:A:N1	2.89	0.40
26:1H:1756:G:H1'	26:1H:1758:G:C2	2.57	0.40
26:1H:1925:C:C2'	26:1H:1926:U:H5'	2.50	0.40
26:1H:2011:U:H2'	26:1H:2012:G:O4'	2.22	0.40
26:1H:2056:G:N3	26:1H:2056:G:H2'	2.37	0.40
26:1H:2679:A:C2	26:1H:2729:G:C2	3.09	0.40
26:1H:2821:A:OP2	39:98:3:HIS:NE2	2.53	0.40
28:71:68:LEU:HG	28:71:176:GLY:HA2	2.03	0.40
30:21:37:ARG:HB2	30:21:46:ALA:HB3	2.03	0.40
30:21:77:ILE:HG21	30:21:77:ILE:HD13	1.79	0.40
30:21:105:THR:HG21	30:21:164:ARG:CZ	2.51	0.40
30:21:120:TRP:CD2	30:21:155:LYS:HD3	2.56	0.40
32:41:18:GLU:O	32:41:22:ARG:HB2	2.21	0.40
32:41:82:LEU:HD23	32:41:82:LEU:HA	1.84	0.40
34:61:79:ILE:HD11	34:61:100:ALA:CB	2.51	0.40
36:68:78:ARG:HH11	36:68:78:ARG:HG2	1.87	0.40
37:78:127:ALA:O	37:78:147:LEU:HG	2.21	0.40
41:B8:3:ARG:O	41:B8:4:GLY:C	2.64	0.40
42:C8:112:ARG:HH12	43:D8:45:THR:HG23	1.86	0.40
43:D8:36:PRO:C	43:D8:38:LEU:N	2.76	0.40
47:H8:156:LYS:HG3	47:H8:158:PRO:HD3	2.02	0.40
1:1G:318:G:H2'	1:1G:319:G:H8	1.87	0.40
1:1G:363:A:C5	12:3A:31:PRO:HD2	2.57	0.40
1:1G:414:A:H2'	1:1G:415:A:H8	1.85	0.40
1:1G:562:C:O2'	12:3A:17:LYS:HG2	2.21	0.40
1:1G:570:G:H1'	1:1G:820:U:C4	2.57	0.40
1:1G:599:C:H2'	1:1G:600:C:C6	2.56	0.40
1:1G:969:A:H2'	1:1G:970:C:O4'	2.21	0.40
1:1G:1028(A):C:H42	1:1G:1028(B):C:H41	1.69	0.40
1:1G:1326:C:OP1	21:1B:12:LYS:NZ	2.47	0.40
1:1G:1338:G:C6	1:1G:1339:A:C6	3.09	0.40
2:12:78:GLN:NE2	2:12:95:GLN:HA	2.35	0.40
3:22:180:ALA:O	3:22:181:ASN:HB3	2.21	0.40
4:32:18:LYS:HE2	4:32:18:LYS:HB2	1.82	0.40
4:32:30:LYS:HB3	4:32:35:ARG:NH1	2.36	0.40
4:32:33:MET:HE3	4:32:33:MET:HB3	2.01	0.40
4:32:93:PHE:CZ	4:32:97:LEU:HD11	2.56	0.40
5:42:144:THR:CG2	5:42:146:ALA:HB3	2.51	0.40
7:62:149:ARG:HH12	11:2A:58:PRO:HG2	1.86	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:82:5:TYR:HA	9:82:17:VAL:O	2.21	0.40
11:2A:31:THR:HA	11:2A:42:TRP:HA	2.03	0.40
13:4A:81:LEU:CD2	13:4A:88:ARG:HH21	2.34	0.40
13:4A:86:CYS:HA	19:AA:73:GLU:O	2.21	0.40
15:6A:82:ILE:HB	15:6A:87:ILE:HB	2.03	0.40
20:BA:72:LEU:HD11	20:BA:80:ARG:NH2	2.35	0.40
21:1B:2:GLY:C	21:1B:4:GLY:H	2.30	0.40
22:1L:55:PSU:H6	22:1L:55:PSU:O5'	2.05	0.40
23:2L:38:A:H2'	23:2L:39:A:O4'	2.20	0.40
26:14:464:U:H4'	54:L5:5:TRP:CZ3	2.57	0.40
26:14:836:G:C5	26:14:837:C:C4	3.08	0.40
26:14:910:A:H2'	26:14:2264:C:O2'	2.21	0.40
26:14:969:U:OP1	51:H5:17:LYS:N	2.54	0.40
26:14:1161:C:H2'	26:14:1162:G:H8	1.86	0.40
26:14:1161:C:O2'	43:95:23:GLU:HG2	2.21	0.40
26:14:1357:U:H2'	26:14:1358:G:O4'	2.22	0.40
26:14:1534:G:H2'	26:14:1537:C:H42	1.85	0.40
26:14:1710:C:H4'	26:14:2858:C:O2	2.20	0.40
26:14:2271:G:H2'	26:14:2272:U:H6	1.85	0.40
26:14:2753:A:H2'	26:14:2754:U:O4'	2.21	0.40
30:29:38:THR:H	30:29:38:THR:HG23	1.65	0.40
40:65:59:LYS:HD2	40:65:60:GLY:H	1.87	0.40
41:75:20:PRO:HD2	41:75:86:ILE:HG23	2.03	0.40
45:B5:31:HIS:ND1	45:B5:32:PRO:HD3	2.36	0.40
46:C5:17:SER:OG	46:C5:18:GLY:O	2.34	0.40
47:D5:158:PRO:HB2	47:D5:160:GLY:H	1.85	0.40
49:F5:7:ILE:HD13	49:F5:91:LYS:HZ1	1.85	0.40
49:F5:58:ILE:HD12	49:F5:87:PRO:HD3	2.02	0.40
1:13:131:C:H2'	1:13:132:C:C6	2.56	0.40
1:13:144:G:C6	1:13:145:G:C4	3.10	0.40
1:13:263:A:P	20:BI:79:ARG:HH11	2.44	0.40
1:13:724:G:H2'	1:13:725:G:H8	1.86	0.40
1:13:828:A:H2'	1:13:829:G:O4'	2.21	0.40
1:13:1006:C:O2'	1:13:1007:C:O5'	2.32	0.40
2:1E:16:HIS:ND1	2:1E:214:ILE:HG12	2.35	0.40
2:1E:87:ARG:NH1	2:1E:220:ASP:OD1	2.46	0.40
5:4E:80:ILE:HG13	8:7E:104:ARG:NH2	2.35	0.40
7:6E:27:ILE:CD1	7:6E:40:ALA:HA	2.49	0.40
7:6E:77:SER:HB2	7:6E:85:TYR:O	2.21	0.40
8:7E:104:ARG:HD2	8:7E:138:TRP:CG	2.56	0.40
12:3I:42:THR:HG22	12:3I:54:LYS:HE3	2.04	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:5I:3:ARG:O	14:5I:4:LYS:C	2.64	0.40
19:AI:43:GLU:CD	19:AI:43:GLU:H	2.29	0.40
22:1K:52:G:H22	22:1K:62:C:H42	1.67	0.40
23:2K:17:C:H4'	23:2K:18:C:OP2	2.21	0.40
26:1H:654(Q):C:H5'	26:1H:654(R):C:OP2	2.21	0.40
26:1H:748:G:O6	26:1H:751:A:H5'	2.22	0.40
26:1H:774:A:C2	26:1H:787:U:O2'	2.73	0.40
26:1H:851:U:O2'	51:L8:42:ALA:O	2.35	0.40
26:1H:1170:G:H2'	26:1H:1171:G:H5'	2.04	0.40
26:1H:1275:A:H62	39:98:15:SER:HB3	1.87	0.40
26:1H:2262:U:H4'	26:1H:2328:A:H2	1.87	0.40
26:1H:2420:C:O5'	26:1H:2420:C:H6	2.04	0.40
26:1H:2505:G:H2'	26:1H:2576:G:O6	2.21	0.40
26:1H:2516:G:C6	26:1H:2517:C:C4	3.09	0.40
31:31:195:ASP:O	31:31:197:ASP:O	2.40	0.40
32:41:101:ILE:O	32:41:105:LYS:HE3	2.22	0.40
33:51:137:ASP:CB	33:51:140:LYS:HB3	2.51	0.40
34:61:79:ILE:HD13	34:61:79:ILE:HA	1.92	0.40
35:58:94:HIS:HA	35:58:95:PRO:HD2	1.91	0.40
37:78:91:PHE:CD2	37:78:99:LEU:HD21	2.56	0.40
39:98:2:ARG:O	39:98:5:LYS:HG2	2.22	0.40
44:E8:92:ARG:NH2	44:E8:94:ASP:HA	2.28	0.40
45:F8:35:THR:O	45:F8:39:ILE:HG13	2.22	0.40
50:K8:63:VAL:HA	50:K8:66:GLU:CG	2.52	0.40
1:1G:46:G:O2'	1:1G:365:U:H1'	2.22	0.40
1:1G:129(A):G:N2	1:1G:191(A):G:C5	2.89	0.40
1:1G:255:G:C2	1:1G:272:C:C2	3.10	0.40
1:1G:390:C:O2'	16:7A:28:ARG:NH1	2.54	0.40
1:1G:929:G:H1	1:1G:1388:C:N4	2.18	0.40
1:1G:1319:A:OP1	19:AA:70:LYS:NZ	2.55	0.40
1:1G:1326:C:H2'	1:1G:1327:C:H6	1.86	0.40
1:1G:1346:A:H61	1:1G:1374:A:H3'	1.86	0.40
2:12:11:LEU:CG	2:12:217:ARG:HH22	2.16	0.40
2:12:44:LEU:O	2:12:47:THR:OG1	2.28	0.40
2:12:58:ILE:HG21	2:12:219:VAL:HG23	2.02	0.40
3:22:70:VAL:O	3:22:106:VAL:HG23	2.21	0.40
3:22:70:VAL:C	3:22:106:VAL:HG23	2.47	0.40
3:22:113:ALA:HB3	3:22:114:PRO:HD3	2.04	0.40
5:42:35:GLY:HA3	5:42:112:LEU:HB3	2.02	0.40
6:52:68:PRO:HG2	6:52:71:ARG:HB2	2.03	0.40
7:62:141:VAL:HA	7:62:142:GLU:HB2	2.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:1A:23:ILE:O	10:1A:26:ALA:N	2.55	0.40
10:1A:47:PHE:O	10:1A:63:PHE:N	2.38	0.40
22:1L:58:A:C8	22:1L:61:C:C4	3.09	0.40
22:1L:76:A:H3'	22:1L:76:A:N3	2.36	0.40
23:2L:2:G:N3	23:2L:2:G:H2'	2.37	0.40
26:14:2:G:N2	26:14:2900:A:N1	2.70	0.40
26:14:94:G:N2	50:G5:47:ASN:HD22	2.20	0.40
26:14:340:A:C2'	26:14:341:G:H5'	2.51	0.40
26:14:375:C:H5''	26:14:408:G:H5''	2.03	0.40
26:14:1250:G:OP2	37:35:21:ARG:NH1	2.52	0.40
26:14:1421:G:C2	26:14:1422:G:N7	2.89	0.40
26:14:1926:U:H2'	26:14:1928:A:OP2	2.21	0.40
26:14:2090:G:C6	26:14:2091:U:C4	3.09	0.40
26:14:2152:G:C6	26:14:2153:G:H1'	2.56	0.40
26:14:2178:C:C2	26:14:2179:C:H5	2.39	0.40
26:14:2190:G:H2'	26:14:2191:G:O4'	2.21	0.40
26:14:2193:G:C6	26:14:2194:G:C5	3.09	0.40
26:14:2210:G:H3'	26:14:2211:G:C4	2.55	0.40
26:14:2608:G:H5''	26:14:2609:U:OP1	2.21	0.40
26:14:2674:G:H4'	36:25:30:ALA:HB2	2.04	0.40
26:14:2720:U:C2	26:14:2721:A:C8	3.09	0.40
26:14:2736:G:N1	26:14:2737:G:C5	2.90	0.40
26:14:2873:A:H3'	26:14:2874:C:C5	2.56	0.40
30:29:7:VAL:HG12	30:29:8:LYS:N	2.37	0.40
32:49:37:VAL:N	32:49:94:LEU:O	2.54	0.40
35:15:111:PRO:HA	35:15:114:ARG:CZ	2.51	0.40
37:35:144:GLU:HA	37:35:145:PRO:HD3	1.95	0.40
41:75:3:ARG:CZ	41:75:6:LEU:HD13	2.51	0.40
41:75:27:THR:HB	41:75:89:VAL:CG2	2.51	0.40
50:G5:4:SER:HA	50:G5:6:VAL:N	2.36	0.40
53:J5:36:CYS:HG	53:J5:49:CYS:HG	1.66	0.40
1:13:317:G:C5	1:13:318:G:N7	2.90	0.40
1:13:553:A:H5''	12:3I:24:VAL:HG21	2.04	0.40
1:13:1028(A):C:H1'	1:13:1033:G:N2	2.37	0.40
1:13:1044:A:C6	1:13:1045:C:H1'	2.56	0.40
3:2E:71:ALA:HA	3:2E:106:VAL:HB	2.03	0.40
5:4E:43:LEU:CD1	5:4E:132:ALA:HB1	2.48	0.40
11:2I:54:ARG:H	11:2I:54:ARG:HG3	1.63	0.40
18:9I:59:SER:N	18:9I:62:GLU:HB2	2.27	0.40
19:AI:18:LYS:HA	19:AI:18:LYS:HD2	1.92	0.40
23:2K:50:G:H2'	23:2K:51:U:O4'	2.21	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1H:239:U:H2'	26:1H:240:G:C8	2.56	0.40
26:1H:322:A:H3'	31:31:169:ASN:OD1	2.21	0.40
26:1H:1145:C:H2'	26:1H:1146:C:C6	2.56	0.40
26:1H:1154:G:O5'	26:1H:1154:G:H8	2.05	0.40
26:1H:1319:G:C6	26:1H:1320:C:N4	2.90	0.40
26:1H:1447:G:H1'	26:1H:1545(A):A:H1'	2.03	0.40
26:1H:2496:C:C2'	26:1H:2497:A:H5'	2.50	0.40
27:16:29:A:OP2	40:A8:31:SER:HB2	2.21	0.40
28:71:6:ARG:HA	28:71:34:THR:OG1	2.22	0.40
29:11:31:LYS:HD3	29:11:94:LEU:CD1	2.52	0.40
29:11:232:PRO:HB3	29:11:244:ARG:NH1	2.36	0.40
29:11:240:ALA:HB1	60:11:407:HOH:O	2.21	0.40
30:21:27:LEU:HD12	30:21:180:ASN:O	2.22	0.40
31:31:123:LEU:HD12	31:31:124:LEU:N	2.36	0.40
33:51:118:PRO:HD2	33:51:121:ILE:HG21	2.02	0.40
34:61:124:GLY:H	34:61:142:VAL:CG2	2.34	0.40
43:D8:25:LEU:H	43:D8:92:THR:CG2	2.33	0.40
43:D8:35:LEU:HD22	43:D8:35:LEU:HA	1.77	0.40
46:G8:42:VAL:HG23	46:G8:43:ASN:N	2.36	0.40
47:H8:7:ALA:HB3	47:H8:61:LEU:CB	2.50	0.40
50:K8:15:LYS:HZ2	50:K8:67:LYS:HE2	1.86	0.40
1:1G:575:G:H4'	1:1G:575:G:OP1	2.21	0.40
1:1G:579:G:C5	1:1G:580:U:C5	3.10	0.40
2:12:54:THR:HA	2:12:57:PHE:HB2	2.04	0.40
2:12:55:PHE:CE2	2:12:221:LEU:HD21	2.57	0.40
3:22:153:VAL:O	3:22:165:THR:HG23	2.22	0.40
3:22:153:VAL:HA	3:22:197:GLY:O	2.21	0.40
8:72:68:ARG:CZ	8:72:74:PRO:HB3	2.52	0.40
10:1A:48:THR:HA	10:1A:62:HIS:HB3	2.03	0.40
13:4A:67:GLU:O	13:4A:71:ARG:HG3	2.22	0.40
13:4A:70:LEU:O	13:4A:74:VAL:HG23	2.21	0.40
14:5A:24:CYS:HB2	14:5A:33:VAL:HG12	2.04	0.40
20:BA:50:GLU:HA	20:BA:100:ILE:HG21	2.03	0.40
22:1L:63:U:HO2'	26:14:2482:G:HO2'	1.62	0.40
23:2L:38:A:H2'	23:2L:39:A:C8	2.56	0.40
24:3L:11:C:N4	24:3L:13:C:H41	2.20	0.40
24:3L:40:C:H2'	24:3L:41:A:H8	1.86	0.40
26:14:90:U:HO2'	26:14:91:A:P	2.44	0.40
26:14:270(S):G:H4'	49:F5:78:LYS:NZ	2.36	0.40
26:14:284:U:H2'	26:14:285:C:C6	2.57	0.40
26:14:642:G:C8	26:14:642:G:C3'	3.03	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:14:657:U:H2'	26:14:658:C:C6	2.56	0.40
26:14:764:A:H5'	29:19:210:GLY:HA2	2.02	0.40
26:14:1012:U:O2	35:15:25:ARG:NH1	2.54	0.40
26:14:1106:G:H5'	26:14:1107:G:OP2	2.21	0.40
26:14:1111:A:H5''	26:14:1112:G:OP1	2.22	0.40
26:14:1118:C:H2'	26:14:1119:C:C6	2.57	0.40
26:14:1366:A:C2	26:14:1367:A:H1'	2.57	0.40
26:14:1762:A:N6	60:14:3510:HOH:O	2.55	0.40
26:14:1793:C:H2'	26:14:1794:U:C6	2.57	0.40
26:14:2029:G:H2'	26:14:2031:A:OP1	2.21	0.40
26:14:2353:G:H8	26:14:2353:G:O5'	2.04	0.40
26:14:2364:C:H2'	26:14:2365:G:O4'	2.22	0.40
26:14:2520:C:H41	26:14:2542:A:N6	2.17	0.40
26:14:2543:G:N3	26:14:2765:A:H2'	2.36	0.40
26:14:2572:A:C8	30:29:144:ARG:HD3	2.56	0.40
26:14:2721:A:H1'	26:14:2873:A:O2'	2.21	0.40
26:14:2728:U:H2'	26:14:2729:G:C8	2.56	0.40
27:1J:117:G:O5'	27:1J:117:G:H8	2.05	0.40
32:49:148:MET:HE3	32:49:150:ASP:OD2	2.21	0.40
34:69:128:LEU:O	34:69:137:PRO:HA	2.21	0.40
35:15:15:LEU:HD13	35:15:16:ILE:N	2.37	0.40
35:15:16:ILE:HB	35:15:54:VAL:HG22	2.04	0.40
39:55:66:VAL:HG11	39:55:80:PHE:HE1	1.86	0.40
39:55:87:TYR:O	39:55:88:ARG:C	2.65	0.40
41:75:107:ASP:OD1	41:75:107:ASP:N	2.54	0.40
45:B5:63:LYS:H	45:B5:63:LYS:HD2	1.87	0.40
47:D5:70:LEU:HD23	47:D5:70:LEU:HA	1.88	0.40
50:G5:23:LYS:HG3	50:G5:24:LEU:N	2.37	0.40
53:J5:41:PRO:HA	53:J5:42:PRO:HD3	1.96	0.40
53:J5:54:GLY:O	53:J5:55:ARG:NH1	2.55	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:82:U:O2'	26:14:271(C):U:O4[3_545]	2.16	0.04

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	12	206/256 (80%)	171 (83%)	30 (15%)	5 (2%)	4	22
2	1E	227/256 (89%)	188 (83%)	36 (16%)	3 (1%)	9	35
3	22	192/239 (80%)	172 (90%)	20 (10%)	0	100	100
3	2E	203/239 (85%)	185 (91%)	18 (9%)	0	100	100
4	32	206/209 (99%)	175 (85%)	29 (14%)	2 (1%)	12	41
4	3E	205/209 (98%)	188 (92%)	15 (7%)	2 (1%)	12	41
5	42	146/162 (90%)	135 (92%)	10 (7%)	1 (1%)	18	49
5	4E	147/162 (91%)	139 (95%)	7 (5%)	1 (1%)	18	49
6	52	99/101 (98%)	93 (94%)	6 (6%)	0	100	100
6	5E	98/101 (97%)	92 (94%)	6 (6%)	0	100	100
7	62	134/156 (86%)	122 (91%)	12 (9%)	0	100	100
7	6E	152/156 (97%)	144 (95%)	8 (5%)	0	100	100
8	72	135/138 (98%)	124 (92%)	10 (7%)	1 (1%)	18	49
8	7E	136/138 (99%)	124 (91%)	11 (8%)	1 (1%)	18	49
9	82	119/128 (93%)	111 (93%)	7 (6%)	1 (1%)	16	47
9	8E	124/128 (97%)	106 (86%)	16 (13%)	2 (2%)	7	30
10	1A	76/105 (72%)	70 (92%)	6 (8%)	0	100	100
10	1I	89/105 (85%)	80 (90%)	9 (10%)	0	100	100
11	2A	111/129 (86%)	100 (90%)	9 (8%)	2 (2%)	6	28
11	2I	109/129 (84%)	98 (90%)	9 (8%)	2 (2%)	6	28
12	3A	120/132 (91%)	98 (82%)	19 (16%)	3 (2%)	4	21
12	3I	120/132 (91%)	105 (88%)	14 (12%)	1 (1%)	16	47
13	4A	109/126 (86%)	93 (85%)	15 (14%)	1 (1%)	14	44
13	4I	117/126 (93%)	95 (81%)	22 (19%)	0	100	100
14	5A	57/61 (93%)	48 (84%)	8 (14%)	1 (2%)	6	28

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	5I	58/61 (95%)	48 (83%)	8 (14%)	2 (3%)	3	16
15	6A	85/89 (96%)	78 (92%)	7 (8%)	0	100	100
15	6I	85/89 (96%)	77 (91%)	7 (8%)	1 (1%)	10	37
16	7A	82/88 (93%)	77 (94%)	5 (6%)	0	100	100
16	7I	81/88 (92%)	78 (96%)	3 (4%)	0	100	100
17	8A	97/105 (92%)	92 (95%)	5 (5%)	0	100	100
17	8I	98/105 (93%)	92 (94%)	6 (6%)	0	100	100
18	9A	65/88 (74%)	61 (94%)	4 (6%)	0	100	100
18	9I	66/88 (75%)	62 (94%)	2 (3%)	2 (3%)	3	19
19	AA	56/93 (60%)	47 (84%)	7 (12%)	2 (4%)	2	16
19	AI	80/93 (86%)	67 (84%)	10 (12%)	3 (4%)	2	15
20	BA	97/106 (92%)	86 (89%)	9 (9%)	2 (2%)	5	25
20	BI	95/106 (90%)	84 (88%)	11 (12%)	0	100	100
21	1B	20/27 (74%)	19 (95%)	1 (5%)	0	100	100
21	1F	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
28	7I	129/229 (56%)	119 (92%)	10 (8%)	0	100	100
28	79	45/229 (20%)	41 (91%)	4 (9%)	0	100	100
29	11	271/276 (98%)	243 (90%)	19 (7%)	9 (3%)	3	17
29	19	272/276 (99%)	242 (89%)	23 (8%)	7 (3%)	4	21
30	21	201/206 (98%)	158 (79%)	35 (17%)	8 (4%)	2	13
30	29	202/206 (98%)	157 (78%)	37 (18%)	8 (4%)	2	13
31	31	200/210 (95%)	183 (92%)	14 (7%)	3 (2%)	8	32
31	39	202/210 (96%)	155 (77%)	40 (20%)	7 (4%)	3	16
32	41	177/182 (97%)	154 (87%)	21 (12%)	2 (1%)	11	39
32	49	177/182 (97%)	152 (86%)	23 (13%)	2 (1%)	11	39
33	51	169/180 (94%)	135 (80%)	25 (15%)	9 (5%)	1	10
33	59	63/180 (35%)	48 (76%)	13 (21%)	2 (3%)	3	18
34	61	144/148 (97%)	120 (83%)	22 (15%)	2 (1%)	9	34
34	69	143/148 (97%)	114 (80%)	28 (20%)	1 (1%)	18	49
35	15	136/140 (97%)	122 (90%)	13 (10%)	1 (1%)	18	49
35	58	136/140 (97%)	114 (84%)	18 (13%)	4 (3%)	3	19

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	25	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
36	68	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
37	35	145/150 (97%)	115 (79%)	25 (17%)	5 (3%)	3	16
37	78	145/150 (97%)	117 (81%)	24 (17%)	4 (3%)	4	20
38	45	136/141 (96%)	115 (85%)	18 (13%)	3 (2%)	5	24
38	88	139/141 (99%)	118 (85%)	17 (12%)	4 (3%)	3	19
39	55	116/118 (98%)	109 (94%)	6 (5%)	1 (1%)	14	44
39	98	116/118 (98%)	100 (86%)	15 (13%)	1 (1%)	14	44
40	65	108/112 (96%)	84 (78%)	23 (21%)	1 (1%)	14	44
40	A8	109/112 (97%)	87 (80%)	22 (20%)	0	100	100
41	75	131/146 (90%)	121 (92%)	10 (8%)	0	100	100
41	B8	130/146 (89%)	115 (88%)	14 (11%)	1 (1%)	16	47
42	85	114/118 (97%)	105 (92%)	7 (6%)	2 (2%)	6	28
42	C8	113/118 (96%)	103 (91%)	7 (6%)	3 (3%)	4	20
43	95	98/101 (97%)	73 (74%)	20 (20%)	5 (5%)	1	10
43	D8	98/101 (97%)	86 (88%)	8 (8%)	4 (4%)	2	13
44	A5	109/113 (96%)	103 (94%)	4 (4%)	2 (2%)	6	28
44	E8	110/113 (97%)	103 (94%)	7 (6%)	0	100	100
45	B5	92/96 (96%)	81 (88%)	9 (10%)	2 (2%)	5	24
45	F8	93/96 (97%)	84 (90%)	9 (10%)	0	100	100
46	C5	103/110 (94%)	72 (70%)	24 (23%)	7 (7%)	1	5
46	G8	103/110 (94%)	87 (84%)	13 (13%)	3 (3%)	3	19
47	D5	128/206 (62%)	104 (81%)	20 (16%)	4 (3%)	3	18
47	H8	169/206 (82%)	136 (80%)	26 (15%)	7 (4%)	2	13
48	E5	75/85 (88%)	67 (89%)	5 (7%)	3 (4%)	2	13
48	I8	74/85 (87%)	69 (93%)	5 (7%)	0	100	100
49	F5	92/98 (94%)	85 (92%)	5 (5%)	2 (2%)	5	24
49	J8	92/98 (94%)	84 (91%)	7 (8%)	1 (1%)	11	39
50	G5	66/72 (92%)	62 (94%)	2 (3%)	2 (3%)	3	19
50	K8	66/72 (92%)	59 (89%)	4 (6%)	3 (4%)	2	12
51	H5	56/60 (93%)	52 (93%)	4 (7%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	L8	56/60 (93%)	54 (96%)	2 (4%)	0	100	100
52	M8	45/71 (63%)	31 (69%)	13 (29%)	1 (2%)	5	24
53	J5	54/60 (90%)	50 (93%)	4 (7%)	0	100	100
53	N8	46/60 (77%)	43 (94%)	3 (6%)	0	100	100
54	L5	45/49 (92%)	42 (93%)	3 (7%)	0	100	100
54	P8	45/49 (92%)	41 (91%)	4 (9%)	0	100	100
55	M5	62/65 (95%)	50 (81%)	9 (14%)	3 (5%)	2	11
55	Q8	62/65 (95%)	51 (82%)	8 (13%)	3 (5%)	2	11
All	All	10971/12333 (89%)	9586 (87%)	1202 (11%)	183 (2%)	7	30

All (183) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
9	8E	127	LYS
18	9I	22	VAL
29	11	28	GLU
29	11	40	THR
30	21	83	ASP
33	51	10	PRO
39	98	11	ASN
42	C8	89	GLU
46	G8	81	LYS
50	K8	48	HIS
55	Q8	52	LYS
2	12	219	VAL
9	82	118	LYS
20	BA	73	HIS
29	19	237	GLU
30	29	25	VAL
31	39	28	ILE
31	39	84	VAL
38	45	27	VAL
39	55	107	ASP
43	95	45	THR
47	D5	53	ILE
48	E5	33	ALA
49	F5	30	VAL
50	G5	48	HIS
55	M5	49	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	1E	238	LEU
4	3E	90	GLY
8	7E	86	ILE
12	3I	48	PRO
29	11	3	VAL
29	11	237	GLU
29	11	273	ARG
30	21	79	ARG
33	51	157	TYR
37	78	25	SER
38	88	66	ILE
42	C8	93	LYS
46	G8	54	LYS
47	H8	6	LYS
47	H8	165	VAL
2	12	32	ILE
11	2A	48	ILE
12	3A	18	VAL
30	29	51	PHE
30	29	59	VAL
30	29	81	ILE
31	39	25	PRO
31	39	132	VAL
34	69	113	ARG
37	35	15	ARG
43	95	44	LYS
46	C5	29	GLU
47	D5	165	VAL
55	M5	34	TRP
55	M5	35	GLN
14	5I	14	PRO
30	21	118	LYS
32	41	97	ASP
34	61	145	VAL
35	58	128	HIS
37	78	6	LEU
38	88	6	ARG
38	88	7	MET
38	88	134	ARG
43	D8	45	THR
47	H8	60	GLU
52	M8	5	ILE

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
55	Q8	35	GLN
55	Q8	53	PRO
20	BA	49	ALA
29	19	44	ASN
29	19	273	ARG
29	19	274	ARG
31	39	124	LEU
35	15	128	HIS
38	45	78	PRO
38	45	81	VAL
40	65	87	PHE
43	95	80	GLN
45	B5	68	ARG
9	8E	94	ALA
29	11	122	ASP
30	21	78	LEU
33	51	169	VAL
35	58	97	ARG
35	58	135	PRO
42	C8	90	VAL
47	H8	61	LEU
50	K8	43	GLN
2	12	220	ASP
11	2A	101	SER
14	5A	29	ARG
19	AA	9	VAL
30	29	9	VAL
30	29	26	ILE
31	39	167	ALA
37	35	35	HIS
37	35	57	THR
44	A5	44	ALA
46	C5	17	SER
47	D5	60	GLU
47	D5	161	VAL
48	E5	44	ARG
49	F5	93	GLU
50	G5	47	ASN
19	AI	67	VAL
29	11	29	PRO
29	11	123	ALA
30	21	56	PRO

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
31	31	23	ASP
33	51	137	ASP
33	51	138	LYS
34	61	133	HIS
41	B8	106	SER
43	D8	49	THR
46	G8	53	PRO
47	H8	59	LEU
50	K8	47	ASN
4	32	73	ARG
5	42	60	TYR
12	3A	19	ARG
29	19	39	LYS
29	19	118	VAL
32	49	149	VAL
37	35	6	LEU
42	85	93	LYS
46	C5	63	LYS
46	C5	99	CYS
2	1E	230	VAL
4	3E	89	THR
14	5I	13	THR
30	21	55	ASN
30	21	89	ASP
32	41	5	VAL
33	51	12	PRO
33	51	154	PRO
33	51	167	GLU
49	J8	76	ARG
30	29	77	ILE
31	39	128	ALA
37	35	34	GLY
46	C5	92	ASN
11	2I	82	VAL
19	AI	41	VAL
30	21	21	VAL
31	31	24	LEU
2	12	223	ILE
4	32	28	SER
8	72	73	ASP
12	3A	47	LYS
29	19	3	VAL

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
43	95	72	VAL
2	1E	214	ILE
15	6I	36	ILE
35	58	95	PRO
43	D8	47	VAL
2	12	39	ILE
13	4A	84	ILE
19	AA	67	VAL
30	29	62	PRO
32	49	5	VAL
45	B5	51	VAL
11	2I	108	ILE
29	11	240	ALA
37	78	7	ARG
37	78	95	VAL
43	D8	48	GLY
47	H8	53	ILE
47	H8	141	VAL
43	95	99	ILE
48	E5	63	VAL
5	4E	115	VAL
31	31	132	VAL
33	59	167	GLU
33	59	169	VAL
42	85	90	VAL
44	A5	59	VAL
46	C5	55	TYR
18	9I	39	VAL
19	AI	9	VAL
33	51	127	GLU
46	C5	3	VAL

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.

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	12	182/220 (83%)	182 (100%)	0	100	100
2	1E	200/220 (91%)	196 (98%)	4 (2%)	48	72
3	22	154/188 (82%)	154 (100%)	0	100	100
3	2E	159/188 (85%)	158 (99%)	1 (1%)	78	83
4	32	180/181 (99%)	179 (99%)	1 (1%)	78	83
4	3E	180/181 (99%)	178 (99%)	2 (1%)	65	78
5	42	114/123 (93%)	114 (100%)	0	100	100
5	4E	115/123 (94%)	113 (98%)	2 (2%)	53	74
6	52	90/90 (100%)	89 (99%)	1 (1%)	65	78
6	5E	90/90 (100%)	90 (100%)	0	100	100
7	62	114/127 (90%)	114 (100%)	0	100	100
7	6E	125/127 (98%)	125 (100%)	0	100	100
8	72	118/119 (99%)	118 (100%)	0	100	100
8	7E	119/119 (100%)	119 (100%)	0	100	100
9	82	92/99 (93%)	92 (100%)	0	100	100
9	8E	97/99 (98%)	96 (99%)	1 (1%)	68	79
10	1A	71/92 (77%)	71 (100%)	0	100	100
10	1I	81/92 (88%)	81 (100%)	0	100	100
11	2A	85/99 (86%)	85 (100%)	0	100	100
11	2I	84/99 (85%)	84 (100%)	0	100	100
12	3A	103/109 (94%)	102 (99%)	1 (1%)	68	79
12	3I	103/109 (94%)	102 (99%)	1 (1%)	68	79
13	4A	91/101 (90%)	90 (99%)	1 (1%)	65	78
13	4I	94/101 (93%)	94 (100%)	0	100	100
14	5A	49/50 (98%)	49 (100%)	0	100	100
14	5I	49/50 (98%)	49 (100%)	0	100	100
15	6A	79/80 (99%)	79 (100%)	0	100	100
15	6I	79/80 (99%)	79 (100%)	0	100	100
16	7A	72/74 (97%)	72 (100%)	0	100	100
16	7I	72/74 (97%)	72 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	8A	94/97 (97%)	94 (100%)	0	100	100
17	8I	95/97 (98%)	95 (100%)	0	100	100
18	9A	58/77 (75%)	58 (100%)	0	100	100
18	9I	58/77 (75%)	58 (100%)	0	100	100
19	AA	52/80 (65%)	52 (100%)	0	100	100
19	AI	71/80 (89%)	71 (100%)	0	100	100
20	BA	76/82 (93%)	76 (100%)	0	100	100
20	BI	75/82 (92%)	75 (100%)	0	100	100
21	1B	17/22 (77%)	17 (100%)	0	100	100
21	1F	18/22 (82%)	18 (100%)	0	100	100
28	71	109/181 (60%)	109 (100%)	0	100	100
28	79	48/181 (26%)	48 (100%)	0	100	100
29	11	214/218 (98%)	214 (100%)	0	100	100
29	19	214/218 (98%)	212 (99%)	2 (1%)	70	80
30	21	165/166 (99%)	165 (100%)	0	100	100
30	29	165/166 (99%)	164 (99%)	1 (1%)	78	83
31	31	161/166 (97%)	161 (100%)	0	100	100
31	39	163/166 (98%)	163 (100%)	0	100	100
32	41	153/156 (98%)	152 (99%)	1 (1%)	76	82
32	49	153/156 (98%)	153 (100%)	0	100	100
33	51	142/148 (96%)	141 (99%)	1 (1%)	76	82
33	59	56/148 (38%)	56 (100%)	0	100	100
34	61	122/124 (98%)	122 (100%)	0	100	100
34	69	122/124 (98%)	121 (99%)	1 (1%)	73	81
35	15	117/119 (98%)	117 (100%)	0	100	100
35	58	117/119 (98%)	116 (99%)	1 (1%)	70	80
36	25	100/100 (100%)	99 (99%)	1 (1%)	68	79
36	68	100/100 (100%)	99 (99%)	1 (1%)	68	79
37	35	114/116 (98%)	114 (100%)	0	100	100
37	78	114/116 (98%)	112 (98%)	2 (2%)	51	73
38	45	109/111 (98%)	109 (100%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
38	88	109/111 (98%)	109 (100%)	0	100	100
39	55	101/101 (100%)	99 (98%)	2 (2%)	48	72
39	98	101/101 (100%)	100 (99%)	1 (1%)	68	79
40	65	87/88 (99%)	87 (100%)	0	100	100
40	A8	87/88 (99%)	86 (99%)	1 (1%)	65	78
41	75	117/127 (92%)	117 (100%)	0	100	100
41	B8	116/127 (91%)	114 (98%)	2 (2%)	53	74
42	85	93/94 (99%)	93 (100%)	0	100	100
42	C8	92/94 (98%)	92 (100%)	0	100	100
43	95	82/82 (100%)	81 (99%)	1 (1%)	63	78
43	D8	82/82 (100%)	82 (100%)	0	100	100
44	A5	91/92 (99%)	89 (98%)	2 (2%)	45	71
44	E8	91/92 (99%)	90 (99%)	1 (1%)	65	78
45	B5	74/78 (95%)	74 (100%)	0	100	100
45	F8	75/78 (96%)	75 (100%)	0	100	100
46	C5	85/91 (93%)	85 (100%)	0	100	100
46	G8	85/91 (93%)	85 (100%)	0	100	100
47	D5	118/179 (66%)	117 (99%)	1 (1%)	73	81
47	H8	152/179 (85%)	152 (100%)	0	100	100
48	E5	61/67 (91%)	61 (100%)	0	100	100
48	I8	61/67 (91%)	61 (100%)	0	100	100
49	F5	79/83 (95%)	79 (100%)	0	100	100
49	J8	79/83 (95%)	79 (100%)	0	100	100
50	G5	62/67 (92%)	62 (100%)	0	100	100
50	K8	62/67 (92%)	61 (98%)	1 (2%)	55	75
51	H5	50/52 (96%)	50 (100%)	0	100	100
51	L8	50/52 (96%)	50 (100%)	0	100	100
52	M8	42/63 (67%)	42 (100%)	0	100	100
53	J5	48/52 (92%)	46 (96%)	2 (4%)	26	58
53	N8	43/52 (83%)	42 (98%)	1 (2%)	44	70
54	L5	38/42 (90%)	37 (97%)	1 (3%)	40	68

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
54	P8	38/42 (90%)	37 (97%)	1 (3%)	40	68
55	M5	54/55 (98%)	54 (100%)	0	100	100
55	Q8	54/55 (98%)	54 (100%)	0	100	100
All	All	9272/10193 (91%)	9229 (100%)	43 (0%)	81	85

All (43) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	1E	83	MET
2	1E	86	GLU
2	1E	156	LYS
2	1E	168	THR
3	2E	27	LYS
4	3E	96	LEU
4	3E	127	THR
5	4E	87	SER
5	4E	147	ASP
9	8E	58	HIS
12	3I	8	ASN
32	4I	162	THR
33	5I	122	THR
35	58	28	THR
36	68	47	ILE
37	78	68	GLN
37	78	98	GLU
39	98	34	ILE
40	A8	32	LEU
41	B8	11	GLU
41	B8	62	THR
44	E8	52	GLU
50	K8	4	SER
53	N8	3	LYS
54	P8	4	THR
4	32	4	TYR
6	52	21	LEU
12	3A	124	LYS
13	4A	115	LYS
29	19	31	LYS
29	19	166	GLN
30	29	49	LEU
34	69	108	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
36	25	26	LYS
39	55	81	ASP
39	55	88	ARG
43	95	91	TYR
44	A5	39	THR
44	A5	100	THR
47	D5	63	ASP
53	J5	26	THR
53	J5	51	TYR
54	L5	43	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (82) such sidechains are listed below:

Mol	Chain	Res	Type
2	1E	16	HIS
2	1E	212	GLN
3	2E	110	ASN
3	2E	123	GLN
4	3E	161	ASN
7	6E	28	ASN
7	6E	37	ASN
7	6E	51	GLN
8	7E	82	HIS
9	8E	87	GLN
9	8E	124	GLN
10	1I	13	HIS
10	1I	76	ASN
15	6I	9	GLN
16	7I	13	HIS
18	9I	36	ASN
19	AI	83	HIS
28	7I	17	ASN
28	7I	56	GLN
28	7I	172	HIS
29	11	96	HIS
29	11	126	GLN
29	11	129	ASN
29	11	143	HIS
29	11	231	HIS
30	21	159	HIS
31	31	40	GLN
31	31	67	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
32	41	123	ASN
34	61	28	ASN
34	61	104	GLN
37	78	27	HIS
38	88	12	GLN
38	88	113	GLN
39	98	24	GLN
48	I8	29	GLN
49	J8	19	GLN
52	M8	47	GLN
54	P8	6	GLN
2	12	37	ASN
2	12	95	GLN
2	12	140	HIS
3	22	28	GLN
3	22	102	ASN
3	22	108	ASN
3	22	181	ASN
5	42	65	ASN
5	42	73	ASN
6	52	27	GLN
6	52	73	ASN
7	62	51	GLN
10	1A	84	GLN
11	2A	27	ASN
13	4A	40	ASN
14	5A	49	HIS
14	5A	52	GLN
15	6A	46	HIS
15	6A	53	HIS
16	7A	82	GLN
18	9A	36	ASN
18	9A	63	GLN
19	AA	53	ASN
29	19	87	ASN
29	19	227	ASN
30	29	180	ASN
31	39	8	GLN
31	39	169	ASN
32	49	130	ASN
33	59	143	GLN
34	69	28	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
34	69	74	ASN
36	25	5	GLN
37	35	27	HIS
37	35	81	GLN
38	45	113	GLN
45	B5	87	GLN
47	D5	54	HIS
47	D5	65	GLN
48	E5	29	GLN
48	E5	70	GLN
50	G5	47	ASN
50	G5	65	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	13	1493/1522 (98%)	349 (23%)	32 (2%)
1	1G	1505/1522 (98%)	385 (25%)	30 (1%)
22	1K	66/76 (86%)	31 (46%)	3 (4%)
22	1L	71/76 (93%)	32 (45%)	5 (7%)
23	2K	76/77 (98%)	23 (30%)	1 (1%)
23	2L	76/77 (98%)	19 (25%)	2 (2%)
24	3K	75/76 (98%)	45 (60%)	3 (4%)
24	3L	75/76 (98%)	33 (44%)	0
25	4K	18/27 (66%)	11 (61%)	1 (5%)
25	4L	17/27 (62%)	10 (58%)	0
26	14	2852/2912 (97%)	738 (25%)	51 (1%)
26	1H	2828/2912 (97%)	735 (25%)	51 (1%)
27	16	121/122 (99%)	17 (14%)	2 (1%)
27	1J	121/122 (99%)	33 (27%)	2 (1%)
All	All	9394/9624 (97%)	2461 (26%)	183 (1%)

All (2461) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	13	2	U
1	13	5	U
1	13	6	G
1	13	7	G
1	13	8	A
1	13	19	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	31	G
1	13	32	A
1	13	33	A
1	13	39	G
1	13	44	G
1	13	47	C
1	13	48	C
1	13	51	A
1	13	54	C
1	13	61	G
1	13	65	U
1	13	66	G
1	13	68	G
1	13	75	C
1	13	95	G
1	13	96	G
1	13	97	U
1	13	99	C
1	13	101	A
1	13	116	A
1	13	121	C
1	13	130	A
1	13	131	C
1	13	142	G
1	13	143	A
1	13	144	G
1	13	147	G
1	13	151	A
1	13	159	G
1	13	160	A
1	13	163	C
1	13	164	U
1	13	169	C
1	13	172	A
1	13	173	U
1	13	174	C
1	13	188	U
1	13	189	U
1	13	190	G
1	13	191(A)	G
1	13	191(C)	G
1	13	195	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	199	G
1	13	201	C
1	13	208	U
1	13	209	U
1	13	216	G
1	13	222	U
1	13	243	A
1	13	244	U
1	13	245	C
1	13	246	A
1	13	247	G
1	13	251	G
1	13	256	U
1	13	262	A
1	13	266	G
1	13	267	C
1	13	270	A
1	13	274	A
1	13	289	G
1	13	318	G
1	13	328	C
1	13	329	A
1	13	330	C
1	13	332	G
1	13	344	A
1	13	345	C
1	13	346	G
1	13	347	G
1	13	351	G
1	13	352	C
1	13	353	A
1	13	354	G
1	13	357	G
1	13	367	U
1	13	372	C
1	13	373	A
1	13	382	A
1	13	389	A
1	13	390	C
1	13	397	A
1	13	398	C
1	13	406	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	412	A
1	13	413	G
1	13	422	C
1	13	423	G
1	13	424	G
1	13	429	U
1	13	430	A
1	13	439	A
1	13	446	G
1	13	451	A
1	13	452	A
1	13	455	C
1	13	457	C
1	13	458	C
1	13	465	A
1	13	466	C
1	13	467	G
1	13	478	A
1	13	484	G
1	13	485	G
1	13	496	A
1	13	497	U
1	13	505	G
1	13	509	A
1	13	510	A
1	13	511	C
1	13	518	C
1	13	521	G
1	13	527	G
1	13	531	U
1	13	532	A
1	13	533	A
1	13	534	U
1	13	536	C
1	13	547	A
1	13	559	A
1	13	561	U
1	13	564	C
1	13	572	A
1	13	573	A
1	13	576	G
1	13	577	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	596	C
1	13	607	A
1	13	610	G
1	13	618	C
1	13	619	U
1	13	620	C
1	13	629	G
1	13	630	G
1	13	631	G
1	13	632	A
1	13	639	G
1	13	648	A
1	13	661	G
1	13	665	A
1	13	666	G
1	13	683	G
1	13	687	A
1	13	688	G
1	13	703	G
1	13	704	A
1	13	720	C
1	13	723	U
1	13	749	C
1	13	753	A
1	13	755	G
1	13	764	C
1	13	769	G
1	13	774	G
1	13	777	A
1	13	792	A
1	13	793	U
1	13	794	A
1	13	795	C
1	13	812	C
1	13	813	U
1	13	815	A
1	13	817	C
1	13	828	A
1	13	836	G
1	13	841	U
1	13	842	C
1	13	843	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	848	C
1	13	855	G
1	13	859	A
1	13	864	A
1	13	870	U
1	13	871	U
1	13	872	A
1	13	873	A
1	13	885	G
1	13	902	G
1	13	914	A
1	13	926	G
1	13	927	G
1	13	934	C
1	13	936	C
1	13	938	A
1	13	960	U
1	13	966	G
1	13	968	A
1	13	969	A
1	13	974	A
1	13	975	A
1	13	976	G
1	13	977	A
1	13	978	A
1	13	983	A
1	13	992	U
1	13	993	G
1	13	999	U
1	13	1002	G
1	13	1004	A
1	13	1005	A
1	13	1006	C
1	13	1007	C
1	13	1008	C
1	13	1009	G
1	13	1012	U
1	13	1016	A
1	13	1024	G
1	13	1025	U
1	13	1026	G
1	13	1028	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	1028(A)	C
1	13	1028(B)	C
1	13	1029	G
1	13	1030	C
1	13	1031	G
1	13	1032(A)	G
1	13	1032(B)	G
1	13	1035	A
1	13	1037	C
1	13	1039	C
1	13	1042	G
1	13	1046	A
1	13	1054	C
1	13	1055	A
1	13	1063	C
1	13	1064	G
1	13	1065	U
1	13	1066	C
1	13	1081	G
1	13	1094	G
1	13	1095	U
1	13	1101	A
1	13	1124	G
1	13	1125	U
1	13	1126	U
1	13	1127	G
1	13	1131	G
1	13	1132	C
1	13	1136	U
1	13	1137	C
1	13	1138	G
1	13	1139	G
1	13	1141	C
1	13	1146	A
1	13	1148	U
1	13	1154	G
1	13	1157	A
1	13	1158	C
1	13	1159	U
1	13	1160	G
1	13	1170	A
1	13	1176	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	1177	G
1	13	1178	G
1	13	1181	G
1	13	1188	A
1	13	1189	C
1	13	1190	G
1	13	1191	A
1	13	1193	G
1	13	1196	U
1	13	1197	G
1	13	1198	G
1	13	1204	A
1	13	1213	A
1	13	1218	C
1	13	1220	G
1	13	1221	G
1	13	1225	A
1	13	1227	A
1	13	1238	A
1	13	1240	U
1	13	1250	A
1	13	1253	G
1	13	1256	A
1	13	1257	U
1	13	1258	G
1	13	1266	G
1	13	1270	C
1	13	1273	G
1	13	1278	U
1	13	1279	A
1	13	1280	A
1	13	1281	U
1	13	1285	A
1	13	1286	A
1	13	1287	A
1	13	1290	G
1	13	1292	U
1	13	1297	C
1	13	1299	A
1	13	1300	G
1	13	1301	U
1	13	1303	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	1312	G
1	13	1317	C
1	13	1320	C
1	13	1323	G
1	13	1331	G
1	13	1335	C
1	13	1336	C
1	13	1337	G
1	13	1338	G
1	13	1339	A
1	13	1346	A
1	13	1347	G
1	13	1350	A
1	13	1353	G
1	13	1360	A
1	13	1363	A
1	13	1368	G
1	13	1369	C
1	13	1370	G
1	13	1381	U
1	13	1398	A
1	13	1401	G
1	13	1419	G
1	13	1436	U
1	13	1442	G
1	13	1443	G
1	13	1446	A
1	13	1449	C
1	13	1450	U
1	13	1452	C
1	13	1453	G
1	13	1454	G
1	13	1462	G
1	13	1463	C
1	13	1467	G
1	13	1487	G
1	13	1492	A
1	13	1497	G
1	13	1499	A
1	13	1502	A
1	13	1504	G
1	13	1506	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	1507	A
1	13	1517	G
1	13	1529	G
1	13	1530	G
1	13	1534	A
1	13	1535	C
1	13	1536	C
22	1K	2	G
22	1K	4	U
22	1K	6	G
22	1K	7	U
22	1K	8	U
22	1K	9	A
22	1K	10	G
22	1K	11	C
22	1K	12	U
22	1K	15	G
22	1K	18	G
22	1K	24	G
22	1K	25	C
22	1K	26	A
22	1K	27	G
22	1K	29	U
22	1K	30	G
22	1K	41	A
22	1K	43	U
22	1K	49	G
22	1K	60	U
22	1K	61	C
22	1K	63	U
22	1K	64	G
22	1K	66	A
22	1K	68	G
22	1K	69	A
22	1K	70	C
22	1K	72	C
22	1K	73	A
22	1K	74	C
23	2K	2	G
23	2K	8	4SU
23	2K	9	G
23	2K	13	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	2K	15	G
23	2K	16	C
23	2K	17	C
23	2K	18	C
23	2K	19	G
23	2K	20	G
23	2K	21	U
23	2K	22	A
23	2K	27	G
23	2K	28	U
23	2K	32	G
23	2K	35	C
23	2K	44	A
23	2K	48	U
23	2K	49	C
23	2K	50	G
23	2K	57	C
23	2K	68	C
23	2K	77	A
24	3K	2	G
24	3K	3	G
24	3K	5	C
24	3K	6	G
24	3K	8	U
24	3K	9	A
24	3K	10	G
24	3K	11	C
24	3K	14	A
24	3K	15	G
24	3K	17	U
24	3K	18	G
24	3K	19	G
24	3K	20	U
24	3K	21	A
24	3K	23	A
24	3K	26	A
24	3K	27	G
24	3K	30	G
24	3K	33	U
24	3K	34	U
24	3K	35	U
24	3K	38	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
24	3K	42	A
24	3K	45	G
24	3K	46	G
24	3K	47	U
24	3K	48	C
24	3K	49	G
24	3K	50	C
24	3K	51	A
24	3K	52	G
24	3K	55	U
24	3K	56	C
24	3K	58	A
24	3K	59	A
24	3K	62	C
24	3K	63	U
24	3K	65	C
24	3K	66	A
24	3K	67	C
24	3K	68	G
24	3K	72	C
24	3K	73	A
24	3K	76	A
25	4K	7	G
25	4K	8	A
25	4K	10	G
25	4K	11	U
25	4K	13	A
25	4K	15	A
25	4K	18	G
25	4K	19	U
25	4K	21	A
25	4K	23	A
25	4K	24	A
26	1H	7	G
26	1H	11	G
26	1H	12	U
26	1H	14	A
26	1H	15	G
26	1H	27	G
26	1H	31	C
26	1H	33	U
26	1H	34	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	35	G
26	1H	39	C
26	1H	41	C
26	1H	46	C
26	1H	51	G
26	1H	54	G
26	1H	56	A
26	1H	61	G
26	1H	64	A
26	1H	71	A
26	1H	72	U
26	1H	74	A
26	1H	75	G
26	1H	85	G
26	1H	111	A
26	1H	118	A
26	1H	119	A
26	1H	120	U
26	1H	122	G
26	1H	123	G
26	1H	125	G
26	1H	126	A
26	1H	131	G
26	1H	138	G
26	1H	155	C
26	1H	162	U
26	1H	163	U
26	1H	164	U
26	1H	171	G
26	1H	181	A
26	1H	188	G
26	1H	196	A
26	1H	197	A
26	1H	199	A
26	1H	214	G
26	1H	215	G
26	1H	216	A
26	1H	220	G
26	1H	221	A
26	1H	222	A
26	1H	223	A
26	1H	224	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	227	A
26	1H	228	A
26	1H	229	A
26	1H	244	A
26	1H	245	G
26	1H	248	G
26	1H	250	G
26	1H	252	G
26	1H	260	G
26	1H	261	G
26	1H	264	C
26	1H	266	G
26	1H	267	C
26	1H	269	U
26	1H	270(F)	U
26	1H	270(H)	C
26	1H	270(I)	G
26	1H	270(K)	C
26	1H	270(L)	U
26	1H	270(M)	U
26	1H	270(N)	G
26	1H	270(O)	U
26	1H	270(P)	C
26	1H	270(Q)	C
26	1H	270(S)	G
26	1H	271(C)	U
26	1H	271	G
26	1H	274	G
26	1H	275	G
26	1H	277	C
26	1H	278	A
26	1H	279	C
26	1H	280	C
26	1H	283	A
26	1H	295	G
26	1H	299	A
26	1H	311	A
26	1H	315	G
26	1H	323	G
26	1H	324	A
26	1H	329	G
26	1H	330	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	331	A
26	1H	333	G
26	1H	334	C
26	1H	335	C
26	1H	342	G
26	1H	346	A
26	1H	347	A
26	1H	352	G
26	1H	363	G
26	1H	363(A)	A
26	1H	363(E)	U
26	1H	363(F)	A
26	1H	364	C
26	1H	372	G
26	1H	386	G
26	1H	389	G
26	1H	396	G
26	1H	404	C
26	1H	405	U
26	1H	406	G
26	1H	411	G
26	1H	418	G
26	1H	428	A
26	1H	443	A
26	1H	444	C
26	1H	448	U
26	1H	452	G
26	1H	455	C
26	1H	457	A
26	1H	459	U
26	1H	460	A
26	1H	470	A
26	1H	481	G
26	1H	482	A
26	1H	489	G
26	1H	501	A
26	1H	505	A
26	1H	508	G
26	1H	509	C
26	1H	510	C
26	1H	528	A
26	1H	529	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	530	G
26	1H	531	C
26	1H	532	A
26	1H	533	G
26	1H	537	C
26	1H	545	G
26	1H	546	C
26	1H	548	A
26	1H	549	G
26	1H	563	G
26	1H	564	C
26	1H	573	G
26	1H	575	A
26	1H	598	G
26	1H	603	A
26	1H	607	U
26	1H	609(A)	G
26	1H	614	U
26	1H	615	G
26	1H	617	G
26	1H	621	A
26	1H	622	G
26	1H	627	A
26	1H	632	A
26	1H	637	A
26	1H	640	C
26	1H	645	C
26	1H	646	A
26	1H	647	G
26	1H	651	G
26	1H	654	A
26	1H	654(A)	A
26	1H	654(B)	C
26	1H	654(C)	G
26	1H	654(D)	G
26	1H	654(O)	G
26	1H	654(P)	G
26	1H	654(Q)	C
26	1H	654(S)	G
26	1H	654(T)	A
26	1H	668	G
26	1H	669	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	672	C
26	1H	677	A
26	1H	686	G
26	1H	703	U
26	1H	704	G
26	1H	712	G
26	1H	715	G
26	1H	717	G
26	1H	730	C
26	1H	736	C
26	1H	738	G
26	1H	747	U
26	1H	748	G
26	1H	751	A
26	1H	752	A
26	1H	753	C
26	1H	762	U
26	1H	775	G
26	1H	776	G
26	1H	782	A
26	1H	784	A
26	1H	785	G
26	1H	790	C
26	1H	792	G
26	1H	793	A
26	1H	802	A
26	1H	805	G
26	1H	812	C
26	1H	824	A
26	1H	827	U
26	1H	828	U
26	1H	830	G
26	1H	832	G
26	1H	836	G
26	1H	845	G
26	1H	846	C
26	1H	847	U
26	1H	859	G
26	1H	860	U
26	1H	866	A
26	1H	870	A
26	1H	879	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	881	G
26	1H	882	G
26	1H	894	C
26	1H	895	U
26	1H	898	C
26	1H	900	A
26	1H	901	A
26	1H	902	C
26	1H	907	U
26	1H	910	A
26	1H	917	A
26	1H	918	A
26	1H	926	A
26	1H	932	G
26	1H	941	A
26	1H	945	A
26	1H	946	G
26	1H	953	A
26	1H	958	U
26	1H	959	A
26	1H	961	C
26	1H	968	G
26	1H	974	G
26	1H	974(A)	C
26	1H	982	C
26	1H	983	A
26	1H	995	C
26	1H	996	A
26	1H	1003	G
26	1H	1005	C
26	1H	1011	G
26	1H	1012	U
26	1H	1013	C
26	1H	1020	A
26	1H	1022	G
26	1H	1023	U
26	1H	1025	G
26	1H	1026	U
26	1H	1027	A
26	1H	1033	U
26	1H	1038	C
26	1H	1039	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	1040	C
26	1H	1045	A
26	1H	1046	A
26	1H	1047	G
26	1H	1048	A
26	1H	1051	G
26	1H	1052	C
26	1H	1053	C
26	1H	1107	G
26	1H	1108	U
26	1H	1109	C
26	1H	1110	G
26	1H	1111	A
26	1H	1112	G
26	1H	1122	G
26	1H	1126	A
26	1H	1128	A
26	1H	1129	A
26	1H	1130	U
26	1H	1135	C
26	1H	1136	G
26	1H	1138	G
26	1H	1139	G
26	1H	1142	U
26	1H	1142(A)	A
26	1H	1149	G
26	1H	1151	G
26	1H	1156	A
26	1H	1170	G
26	1H	1171	G
26	1H	1174	A
26	1H	1175	U
26	1H	1176	G
26	1H	1177	A
26	1H	1178	C
26	1H	1179	C
26	1H	1192	G
26	1H	1195	G
26	1H	1204	A
26	1H	1205	U
26	1H	1206	G
26	1H	1210	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	1211	U
26	1H	1218	C
26	1H	1220	A
26	1H	1221	C
26	1H	1225	C
26	1H	1228	G
26	1H	1229(A)	G
26	1H	1234	U
26	1H	1237	A
26	1H	1244	G
26	1H	1250	G
26	1H	1253	A
26	1H	1256	G
26	1H	1265	A
26	1H	1271	G
26	1H	1272	A
26	1H	1273	U
26	1H	1287	A
26	1H	1288	U
26	1H	1296	G
26	1H	1298	C
26	1H	1300	U
26	1H	1301	A
26	1H	1302	A
26	1H	1303	G
26	1H	1329	U
26	1H	1332	G
26	1H	1344	G
26	1H	1345	C
26	1H	1348	G
26	1H	1349	A
26	1H	1359	A
26	1H	1360	A
26	1H	1365	A
26	1H	1370	C
26	1H	1373	A
26	1H	1380	G
26	1H	1385	G
26	1H	1386	C
26	1H	1395	A
26	1H	1403	C
26	1H	1416	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	1417	C
26	1H	1419	A
26	1H	1420	U
26	1H	1421	G
26	1H	1427	A
26	1H	1428	C
26	1H	1429	G
26	1H	1430	C
26	1H	1431	U
26	1H	1437	C
26	1H	1444(A)	A
26	1H	1449	A
26	1H	1449(A)	G
26	1H	1455	G
26	1H	1456	G
26	1H	1458	C
26	1H	1459	G
26	1H	1460	A
26	1H	1461	G
26	1H	1462	C
26	1H	1467	C
26	1H	1471	A
26	1H	1490	A
26	1H	1492	G
26	1H	1493	C
26	1H	1494	A
26	1H	1496	A
26	1H	1497	U
26	1H	1506	C
26	1H	1508	A
26	1H	1509	C
26	1H	1510	A
26	1H	1511	A
26	1H	1519	G
26	1H	1520	U
26	1H	1522	G
26	1H	1526	G
26	1H	1533	C
26	1H	1534	G
26	1H	1535	U
26	1H	1537	C
26	1H	1538	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	1540	G
26	1H	1543	A
26	1H	1545	A
26	1H	1548	C
26	1H	1554	A
26	1H	1558	A
26	1H	1559	G
26	1H	1560	G
26	1H	1565	C
26	1H	1566	A
26	1H	1569	A
26	1H	1578	U
26	1H	1580	A
26	1H	1585	C
26	1H	1586	A
26	1H	1587	A
26	1H	1606	G
26	1H	1608	A
26	1H	1609	A
26	1H	1610	A
26	1H	1617	C
26	1H	1618	A
26	1H	1626	G
26	1H	1635	G
26	1H	1636	C
26	1H	1639	U
26	1H	1640	C
26	1H	1644	C
26	1H	1647	G
26	1H	1648	C
26	1H	1651	G
26	1H	1654	A
26	1H	1666	G
26	1H	1674	G
26	1H	1675	C
26	1H	1706	U
26	1H	1728	G
26	1H	1729	A
26	1H	1730	U
26	1H	1731	G
26	1H	1732	A
26	1H	1733	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	1734	C
26	1H	1735	C
26	1H	1746	G
26	1H	1756	G
26	1H	1758	G
26	1H	1763	G
26	1H	1764	G
26	1H	1773	A
26	1H	1776	G
26	1H	1791	A
26	1H	1799	G
26	1H	1800	C
26	1H	1801	G
26	1H	1802	A
26	1H	1816	G
26	1H	1819	A
26	1H	1829	A
26	1H	1833	U
26	1H	1835	G
26	1H	1836	C
26	1H	1839	G
26	1H	1847	A
26	1H	1853	A
26	1H	1858	G
26	1H	1869	G
26	1H	1870	C
26	1H	1878	G
26	1H	1882	C
26	1H	1889	A
26	1H	1896	G
26	1H	1900	A
26	1H	1901	A
26	1H	1904	G
26	1H	1906	G
26	1H	1913	A
26	1H	1914	C
26	1H	1919	A
26	1H	1920	C
26	1H	1929	G
26	1H	1930	G
26	1H	1931	U
26	1H	1933	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	1938	A
26	1H	1945	G
26	1H	1955	U
26	1H	1963	U
26	1H	1967	C
26	1H	1969	A
26	1H	1970	A
26	1H	1971	A
26	1H	1972	A
26	1H	1982	C
26	1H	1992	G
26	1H	1993	U
26	1H	1994	C
26	1H	2020	A
26	1H	2023	G
26	1H	2031	A
26	1H	2032	G
26	1H	2033	A
26	1H	2035	G
26	1H	2036	C
26	1H	2043	C
26	1H	2047	U
26	1H	2049	G
26	1H	2052	G
26	1H	2055	C
26	1H	2056	G
26	1H	2060	A
26	1H	2061	G
26	1H	2062	A
26	1H	2063	C
26	1H	2069	G
26	1H	2077	A
26	1H	2082	A
26	1H	2096	U
26	1H	2099	U
26	1H	2108	C
26	1H	2110	G
26	1H	2111	C
26	1H	2112	G
26	1H	2113	U
26	1H	2114	A
26	1H	2115	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	2116	G
26	1H	2117	A
26	1H	2119	A
26	1H	2120	G
26	1H	2125	G
26	1H	2126	A
26	1H	2127	G
26	1H	2128	C
26	1H	2131	G
26	1H	2132	U
26	1H	2133	G
26	1H	2134	A
26	1H	2135	A
26	1H	2136	C
26	1H	2138	C
26	1H	2139	C
26	1H	2144	U
26	1H	2145	C
26	1H	2146	C
26	1H	2147	G
26	1H	2148	G
26	1H	2150	U
26	1H	2151	G
26	1H	2153	G
26	1H	2156	G
26	1H	2157	G
26	1H	2158	A
26	1H	2159	G
26	1H	2161	C
26	1H	2164	C
26	1H	2165	G
26	1H	2166	G
26	1H	2168	G
26	1H	2170	A
26	1H	2171	A
26	1H	2173	A
26	1H	2175	C
26	1H	2176	A
26	1H	2177	C
26	1H	2180	U
26	1H	2181	G
26	1H	2186	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	2189	U
26	1H	2190	G
26	1H	2192	G
26	1H	2193	G
26	1H	2197	U
26	1H	2198	A
26	1H	2199	A
26	1H	2210	G
26	1H	2211	G
26	1H	2212	A
26	1H	2213	U
26	1H	2215	G
26	1H	2225	A
26	1H	2226	C
26	1H	2232	U
26	1H	2235	G
26	1H	2237	G
26	1H	2238	G
26	1H	2240	C
26	1H	2267	A
26	1H	2269	A
26	1H	2273	A
26	1H	2275	C
26	1H	2279	G
26	1H	2280	G
26	1H	2281	C
26	1H	2283	C
26	1H	2287	A
26	1H	2296	U
26	1H	2305	A
26	1H	2307	G
26	1H	2308	G
26	1H	2310	A
26	1H	2311	A
26	1H	2312	U
26	1H	2314	C
26	1H	2315	G
26	1H	2317	C
26	1H	2320	A
26	1H	2324	C
26	1H	2325	G
26	1H	2326	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	2327	A
26	1H	2334	G
26	1H	2336	A
26	1H	2337	G
26	1H	2345	G
26	1H	2346	A
26	1H	2347	C
26	1H	2350	C
26	1H	2352	A
26	1H	2355	C
26	1H	2356	C
26	1H	2357	U
26	1H	2372	G
26	1H	2376	A
26	1H	2377	A
26	1H	2383	G
26	1H	2385	C
26	1H	2391	G
26	1H	2393	A
26	1H	2395	C
26	1H	2402	C
26	1H	2403	C
26	1H	2406	U
26	1H	2410	G
26	1H	2418	A
26	1H	2422	A
26	1H	2423	U
26	1H	2424	C
26	1H	2425	A
26	1H	2428	G
26	1H	2429	G
26	1H	2430	A
26	1H	2435	A
26	1H	2439	A
26	1H	2440	C
26	1H	2441	C
26	1H	2442	C
26	1H	2445	G
26	1H	2448	A
26	1H	2453	A
26	1H	2468	G
26	1H	2469	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	2470	G
26	1H	2474	C
26	1H	2476	A
26	1H	2477	C
26	1H	2478	A
26	1H	2481	G
26	1H	2484	G
26	1H	2494	G
26	1H	2497	A
26	1H	2502	G
26	1H	2505	G
26	1H	2506	U
26	1H	2507	C
26	1H	2518	A
26	1H	2520	C
26	1H	2525	G
26	1H	2529	G
26	1H	2554	U
26	1H	2564	A
26	1H	2566	A
26	1H	2567	G
26	1H	2573	C
26	1H	2574	G
26	1H	2582	G
26	1H	2602	A
26	1H	2609	U
26	1H	2611	U
26	1H	2612	C
26	1H	2615	U
26	1H	2629	A
26	1H	2632	A
26	1H	2636	U
26	1H	2637	U
26	1H	2647	U
26	1H	2654	A
26	1H	2661	G
26	1H	2665	A
26	1H	2673	G
26	1H	2679	A
26	1H	2681	C
26	1H	2682	U
26	1H	2683	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	2689	U
26	1H	2699	C
26	1H	2702	U
26	1H	2703	C
26	1H	2707	G
26	1H	2712(A)	A
26	1H	2713	A
26	1H	2718	G
26	1H	2719	G
26	1H	2721	A
26	1H	2723	C
26	1H	2726	U
26	1H	2733	A
26	1H	2736	G
26	1H	2738	A
26	1H	2739	U
26	1H	2756	U
26	1H	2757	A
26	1H	2764	A
26	1H	2765	A
26	1H	2766	G
26	1H	2777	G
26	1H	2778	A
26	1H	2779	U
26	1H	2789	C
26	1H	2790	A
26	1H	2791	C
26	1H	2793	G
26	1H	2794	C
26	1H	2795	G
26	1H	2797	U
26	1H	2798	C
26	1H	2801	A
26	1H	2803	C
26	1H	2808	U
26	1H	2813	A
26	1H	2818	G
26	1H	2820	A
26	1H	2821	A
26	1H	2830	G
26	1H	2833	G
26	1H	2834	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	2835	A
26	1H	2836	U
26	1H	2849	U
26	1H	2850	A
26	1H	2864	G
26	1H	2872	G
26	1H	2874	C
26	1H	2876	G
26	1H	2887	U
26	1H	2892	A
26	1H	2894	G
26	1H	2895	U
27	16	0	A
27	16	3	C
27	16	8	U
27	16	12	C
27	16	13	A
27	16	15	A
27	16	25	A
27	16	33	G
27	16	39	A
27	16	45	A
27	16	56	G
27	16	65	C
27	16	67	G
27	16	73	A
27	16	74	U
27	16	81	G
27	16	109	G
1	1G	5	U
1	1G	6	G
1	1G	7	G
1	1G	9	G
1	1G	13	U
1	1G	21	G
1	1G	23	C
1	1G	27	G
1	1G	31	G
1	1G	32	A
1	1G	39	G
1	1G	47	C
1	1G	48	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	50	A
1	1G	51	A
1	1G	54	C
1	1G	64	G
1	1G	65	U
1	1G	76	G
1	1G	79	G
1	1G	80	G
1	1G	81	G
1	1G	82	U
1	1G	89	U
1	1G	90	C
1	1G	91	C
1	1G	92	G
1	1G	95	G
1	1G	101	A
1	1G	105	G
1	1G	115	G
1	1G	116	A
1	1G	121	C
1	1G	127	G
1	1G	131	C
1	1G	144	G
1	1G	157	G
1	1G	161	A
1	1G	162	A
1	1G	163	C
1	1G	170	U
1	1G	173	U
1	1G	174	C
1	1G	179	A
1	1G	182	U
1	1G	185	A
1	1G	186	C
1	1G	188	U
1	1G	189	U
1	1G	190	G
1	1G	191(A)	G
1	1G	191(D)	U
1	1G	191(E)	G
1	1G	195	A
1	1G	196	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	197	A
1	1G	198	G
1	1G	201	C
1	1G	209	U
1	1G	210	U
1	1G	216	G
1	1G	247	G
1	1G	250	A
1	1G	251	G
1	1G	256	U
1	1G	266	G
1	1G	267	C
1	1G	270	A
1	1G	279	A
1	1G	281	G
1	1G	289	G
1	1G	318	G
1	1G	321	A
1	1G	328	C
1	1G	329	A
1	1G	332	G
1	1G	344	A
1	1G	346	G
1	1G	350	G
1	1G	351	G
1	1G	352	C
1	1G	353	A
1	1G	354	G
1	1G	356	A
1	1G	363	A
1	1G	367	U
1	1G	372	C
1	1G	373	A
1	1G	388	G
1	1G	397	A
1	1G	398	C
1	1G	406	G
1	1G	412	A
1	1G	413	G
1	1G	414	A
1	1G	417	C
1	1G	421	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	422	C
1	1G	423	G
1	1G	424	G
1	1G	429	U
1	1G	430	A
1	1G	433	C
1	1G	439	A
1	1G	451	A
1	1G	452	A
1	1G	456	C
1	1G	458	C
1	1G	465	A
1	1G	466	C
1	1G	467	G
1	1G	475	G
1	1G	476	G
1	1G	482	A
1	1G	484	G
1	1G	485	G
1	1G	486	U
1	1G	496	A
1	1G	497	U
1	1G	505	G
1	1G	508	C
1	1G	510	A
1	1G	511	C
1	1G	518	C
1	1G	521	G
1	1G	527	G
1	1G	530	G
1	1G	531	U
1	1G	532	A
1	1G	536	C
1	1G	544	G
1	1G	547	A
1	1G	559	A
1	1G	561	U
1	1G	572	A
1	1G	573	A
1	1G	576	G
1	1G	577	G
1	1G	596	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	604	G
1	1G	607	A
1	1G	614	A
1	1G	618	C
1	1G	621	A
1	1G	630	G
1	1G	631	G
1	1G	632	A
1	1G	635	G
1	1G	651	C
1	1G	653	A
1	1G	661	G
1	1G	663	A
1	1G	665	A
1	1G	687	A
1	1G	688	G
1	1G	706	A
1	1G	723	U
1	1G	724	G
1	1G	731	G
1	1G	744	C
1	1G	749	C
1	1G	755	G
1	1G	762	C
1	1G	765	G
1	1G	769	G
1	1G	777	A
1	1G	793	U
1	1G	794	A
1	1G	802	A
1	1G	816	A
1	1G	817	C
1	1G	819	A
1	1G	821	G
1	1G	828	A
1	1G	842	C
1	1G	843	U
1	1G	848	C
1	1G	853	G
1	1G	854	G
1	1G	857	C
1	1G	858	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	859	A
1	1G	862	C
1	1G	874	G
1	1G	914	A
1	1G	916	G
1	1G	922	G
1	1G	926	G
1	1G	927	G
1	1G	934	C
1	1G	935	A
1	1G	942	G
1	1G	953	G
1	1G	960	U
1	1G	961	U
1	1G	966	G
1	1G	968	A
1	1G	969	A
1	1G	971	G
1	1G	972	C
1	1G	974	A
1	1G	975	A
1	1G	976	G
1	1G	977	A
1	1G	978	A
1	1G	980	C
1	1G	982	U
1	1G	983	A
1	1G	991	U
1	1G	992	U
1	1G	993	G
1	1G	994	A
1	1G	996	A
1	1G	1001	G
1	1G	1003	G
1	1G	1004	A
1	1G	1006	C
1	1G	1008	C
1	1G	1009	G
1	1G	1023	G
1	1G	1024	G
1	1G	1026	G
1	1G	1028	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	1028(A)	C
1	1G	1028(B)	C
1	1G	1029	G
1	1G	1030	C
1	1G	1031	G
1	1G	1032	A
1	1G	1032(A)	G
1	1G	1034	G
1	1G	1036	G
1	1G	1037	C
1	1G	1040	U
1	1G	1041	A
1	1G	1042	G
1	1G	1046	A
1	1G	1050	G
1	1G	1051	C
1	1G	1053	G
1	1G	1054	C
1	1G	1055	A
1	1G	1060	C
1	1G	1064	G
1	1G	1081	G
1	1G	1082	G
1	1G	1084	G
1	1G	1088	G
1	1G	1092	A
1	1G	1094	G
1	1G	1095	U
1	1G	1096	C
1	1G	1098	C
1	1G	1099	G
1	1G	1101	A
1	1G	1114	C
1	1G	1117	G
1	1G	1118	C
1	1G	1123	A
1	1G	1124	G
1	1G	1125	U
1	1G	1126	U
1	1G	1127	G
1	1G	1128	C
1	1G	1129	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	1131	G
1	1G	1134	G
1	1G	1135	U
1	1G	1137	C
1	1G	1138	G
1	1G	1139	G
1	1G	1140	C
1	1G	1141	C
1	1G	1144	G
1	1G	1146	A
1	1G	1150	U
1	1G	1157	A
1	1G	1158	C
1	1G	1159	U
1	1G	1164	G
1	1G	1171	G
1	1G	1177	G
1	1G	1178	G
1	1G	1181	G
1	1G	1182	G
1	1G	1183	A
1	1G	1184	G
1	1G	1188	A
1	1G	1189	C
1	1G	1190	G
1	1G	1191	A
1	1G	1193	G
1	1G	1196	U
1	1G	1197	G
1	1G	1201	A
1	1G	1202	G
1	1G	1203	C
1	1G	1204	A
1	1G	1211	U
1	1G	1212	U
1	1G	1213	A
1	1G	1214	C
1	1G	1215	G
1	1G	1220	G
1	1G	1223	C
1	1G	1227	A
1	1G	1238	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	1240	U
1	1G	1241	G
1	1G	1250	A
1	1G	1256	A
1	1G	1257	U
1	1G	1258	G
1	1G	1260	C
1	1G	1265	G
1	1G	1267	C
1	1G	1268	A
1	1G	1275	A
1	1G	1279	A
1	1G	1280	A
1	1G	1281	U
1	1G	1282	C
1	1G	1286	A
1	1G	1287	A
1	1G	1288	A
1	1G	1289	A
1	1G	1293	G
1	1G	1297	C
1	1G	1299	A
1	1G	1300	G
1	1G	1301	U
1	1G	1302	U
1	1G	1305	G
1	1G	1313	U
1	1G	1317	C
1	1G	1318	A
1	1G	1320	C
1	1G	1322	C
1	1G	1323	G
1	1G	1331	G
1	1G	1335	C
1	1G	1336	C
1	1G	1338	G
1	1G	1346	A
1	1G	1347	G
1	1G	1353	G
1	1G	1358	U
1	1G	1362(A)	C
1	1G	1363	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	1364	U
1	1G	1369	C
1	1G	1370	G
1	1G	1379	G
1	1G	1381	U
1	1G	1392	G
1	1G	1397	C
1	1G	1398	A
1	1G	1399	C
1	1G	1419	G
1	1G	1442	G
1	1G	1443	G
1	1G	1446	A
1	1G	1448	C
1	1G	1450	U
1	1G	1451	A
1	1G	1453	G
1	1G	1472	U
1	1G	1478	C
1	1G	1492	A
1	1G	1498	U
1	1G	1499	A
1	1G	1502	A
1	1G	1503	A
1	1G	1504	G
1	1G	1506	U
1	1G	1507	A
1	1G	1517	G
1	1G	1520	G
1	1G	1529	G
1	1G	1530	G
1	1G	1531	A
1	1G	1532	U
1	1G	1533	C
1	1G	1534	A
1	1G	1535	C
22	1L	2	G
22	1L	3	G
22	1L	4	U
22	1L	6	G
22	1L	7	U
22	1L	8	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
22	1L	9	A
22	1L	10	G
22	1L	12	U
22	1L	13	C
22	1L	17	U
22	1L	18	G
22	1L	19	G
22	1L	20	U
22	1L	26	A
22	1L	30	G
22	1L	34	U8U
22	1L	35	U
22	1L	36	U
22	1L	41	A
22	1L	44	U
22	1L	45	G
22	1L	49	G
22	1L	53	G
22	1L	54	5MU
22	1L	66	A
22	1L	67	C
22	1L	69	A
22	1L	70	C
22	1L	73	A
22	1L	74	C
22	1L	75	C
23	2L	2	G
23	2L	8	4SU
23	2L	9	G
23	2L	16	C
23	2L	18	C
23	2L	19	G
23	2L	21	U
23	2L	22	A
23	2L	23	G
23	2L	32	G
23	2L	34	U
23	2L	47	G7M
23	2L	48	U
23	2L	49	C
23	2L	50	G
23	2L	55	5MU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
23	2L	57	C
23	2L	68	C
23	2L	77	A
24	3L	2	G
24	3L	7	U
24	3L	9	A
24	3L	11	C
24	3L	12	U
24	3L	13	C
24	3L	15	G
24	3L	16	U
24	3L	17	U
24	3L	18	G
24	3L	19	G
24	3L	20	U
24	3L	21	A
24	3L	26	A
24	3L	31	A
24	3L	33	U
24	3L	35	U
24	3L	36	U
24	3L	40	C
24	3L	41	A
24	3L	42	A
24	3L	43	U
24	3L	46	G
24	3L	47	U
24	3L	48	C
24	3L	51	A
24	3L	56	C
24	3L	57	G
24	3L	58	A
24	3L	61	C
24	3L	65	C
24	3L	73	A
24	3L	76	A
25	4L	8	A
25	4L	9	G
25	4L	11	U
25	4L	13	A
25	4L	14	A
25	4L	15	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
25	4L	19	U
25	4L	21	A
25	4L	22	A
25	4L	23	A
26	14	2	G
26	14	3	U
26	14	4	C
26	14	5	A
26	14	6	A
26	14	9	U
26	14	10	G
26	14	11	G
26	14	15	G
26	14	16	G
26	14	34	C
26	14	35	G
26	14	36	G
26	14	46	C
26	14	49	A
26	14	50	U
26	14	58	G
26	14	60	G
26	14	61	G
26	14	71	A
26	14	72	U
26	14	74	A
26	14	75	G
26	14	83	G
26	14	90	U
26	14	91	A
26	14	93	C
26	14	95	G
26	14	99	U
26	14	101	G
26	14	102	G
26	14	118	A
26	14	119	A
26	14	120	U
26	14	125	G
26	14	129	C
26	14	131	G
26	14	154	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	155	C
26	14	161	U
26	14	162	U
26	14	172	C
26	14	174	C
26	14	175	G
26	14	181	A
26	14	182	A
26	14	196	A
26	14	199	A
26	14	201	C
26	14	205	G
26	14	214	G
26	14	215	G
26	14	216	A
26	14	221	A
26	14	222	A
26	14	225	A
26	14	229	A
26	14	233	A
26	14	240	G
26	14	248	G
26	14	249	C
26	14	250	G
26	14	252	G
26	14	267	C
26	14	270(F)	U
26	14	270(K)	C
26	14	270(L)	U
26	14	270(O)	U
26	14	271(B)	G
26	14	271(C)	U
26	14	271	G
26	14	273(D)	C
26	14	273(F)	C
26	14	274	G
26	14	275	G
26	14	276	A
26	14	277	C
26	14	278	A
26	14	279	C
26	14	283	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	289	A
26	14	290	G
26	14	298	G
26	14	311	A
26	14	327	G
26	14	329	G
26	14	330	A
26	14	331	A
26	14	352	G
26	14	361	G
26	14	362	U
26	14	363	G
26	14	363(D)	G
26	14	372	G
26	14	375	C
26	14	380	U
26	14	386	G
26	14	395	U
26	14	396	G
26	14	404	C
26	14	405	U
26	14	407	G
26	14	411	G
26	14	412	A
26	14	416	C
26	14	428	A
26	14	429	A
26	14	443	A
26	14	444	C
26	14	448	U
26	14	451	C
26	14	454	A
26	14	455	C
26	14	457	A
26	14	459	U
26	14	460	A
26	14	467	G
26	14	470	A
26	14	471	A
26	14	478	A
26	14	480	A
26	14	481	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	483	A
26	14	505	A
26	14	508	G
26	14	509	C
26	14	512	G
26	14	528	A
26	14	529	A
26	14	531	C
26	14	532	A
26	14	533	G
26	14	537	C
26	14	547	A
26	14	549	G
26	14	556	G
26	14	563	G
26	14	564	C
26	14	568	U
26	14	572	A
26	14	573	G
26	14	575	A
26	14	586	A
26	14	593	G
26	14	598	G
26	14	603	A
26	14	604	G
26	14	607	U
26	14	613	U
26	14	615	G
26	14	617	G
26	14	620	G
26	14	621	A
26	14	622	G
26	14	627	A
26	14	634	C
26	14	637	A
26	14	641	C
26	14	643	A
26	14	645	C
26	14	646	A
26	14	649	G
26	14	650	C
26	14	651	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	654	A
26	14	654(A)	A
26	14	654(B)	C
26	14	654(D)	G
26	14	654(S)	G
26	14	654(T)	A
26	14	656	G
26	14	664	C
26	14	668	G
26	14	669	G
26	14	671	C
26	14	673	C
26	14	682	G
26	14	686	G
26	14	708	C
26	14	709	U
26	14	717	G
26	14	722	A
26	14	730	C
26	14	731	C
26	14	738	G
26	14	740	U
26	14	748	G
26	14	751	A
26	14	753	C
26	14	764	A
26	14	765	G
26	14	770	G
26	14	771	G
26	14	775	G
26	14	776	G
26	14	779	U
26	14	782	A
26	14	784	A
26	14	785	G
26	14	789	A
26	14	792	G
26	14	805	G
26	14	812	C
26	14	816	C
26	14	819	A
26	14	824	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	827	U
26	14	828	U
26	14	831	G
26	14	832	G
26	14	845	G
26	14	846	C
26	14	848	G
26	14	857	C
26	14	859	G
26	14	865	C
26	14	866	A
26	14	869	G
26	14	875	G
26	14	877	U
26	14	878	A
26	14	879	G
26	14	880	G
26	14	897	C
26	14	899	A
26	14	901	A
26	14	904	C
26	14	910	A
26	14	911	A
26	14	914	C
26	14	915	C
26	14	917	A
26	14	926	A
26	14	930	U
26	14	931	G
26	14	932	G
26	14	933	A
26	14	941	A
26	14	945	A
26	14	946	G
26	14	958	U
26	14	959	A
26	14	961	C
26	14	962	G
26	14	974	G
26	14	980	A
26	14	983	A
26	14	990	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	996	A
26	14	1002	G
26	14	1008	C
26	14	1009	A
26	14	1010	A
26	14	1012	U
26	14	1013	C
26	14	1015	G
26	14	1020	A
26	14	1022	G
26	14	1023	U
26	14	1025	G
26	14	1026	U
26	14	1028	A
26	14	1029	A
26	14	1034	G
26	14	1036	G
26	14	1037	G
26	14	1039	G
26	14	1044	G
26	14	1048	A
26	14	1050	A
26	14	1052	C
26	14	1054	A
26	14	1055	G
26	14	1056	G
26	14	1057	A
26	14	1060	U
26	14	1061	U
26	14	1062	G
26	14	1070	A
26	14	1071	G
26	14	1072	C
26	14	1073	A
26	14	1074	G
26	14	1075	C
26	14	1088	A
26	14	1090	U
26	14	1091	G
26	14	1093	G
26	14	1099	G
26	14	1100	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	1105	U
26	14	1106	G
26	14	1110	G
26	14	1112	G
26	14	1113	U
26	14	1114	G
26	14	1120	G
26	14	1122	G
26	14	1129	A
26	14	1130	U
26	14	1135	C
26	14	1136	G
26	14	1139	G
26	14	1142	U
26	14	1142(A)	A
26	14	1143	A
26	14	1147	C
26	14	1150	C
26	14	1151	G
26	14	1155	A
26	14	1157	G
26	14	1164	G
26	14	1170	G
26	14	1171	G
26	14	1173	G
26	14	1174	A
26	14	1175	U
26	14	1177	A
26	14	1178	C
26	14	1183	G
26	14	1194	A
26	14	1195	G
26	14	1204	A
26	14	1205	U
26	14	1212	G
26	14	1213	A
26	14	1220	A
26	14	1221	C
26	14	1229	G
26	14	1236	G
26	14	1237	A
26	14	1252	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	1253	A
26	14	1256	G
26	14	1262	A
26	14	1271	G
26	14	1272	A
26	14	1273	U
26	14	1298	C
26	14	1300	U
26	14	1301	A
26	14	1303	G
26	14	1325	G
26	14	1326	U
26	14	1329	U
26	14	1345	C
26	14	1348	G
26	14	1349	A
26	14	1352	U
26	14	1359	A
26	14	1360	A
26	14	1365	A
26	14	1368	G
26	14	1369	G
26	14	1379	A
26	14	1380	G
26	14	1385	G
26	14	1386	C
26	14	1389	G
26	14	1390	U
26	14	1406	U
26	14	1408	C
26	14	1416	G
26	14	1417	C
26	14	1419	A
26	14	1420	U
26	14	1421	G
26	14	1424	G
26	14	1425	G
26	14	1428	C
26	14	1437	C
26	14	1444(A)	A
26	14	1445	C
26	14	1447	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	1449	A
26	14	1449(A)	G
26	14	1451	C
26	14	1454	U
26	14	1455	G
26	14	1459	G
26	14	1460	A
26	14	1464	C
26	14	1467	C
26	14	1471	A
26	14	1479	G
26	14	1483	G
26	14	1486	A
26	14	1490	A
26	14	1493	C
26	14	1496	A
26	14	1500	G
26	14	1508	A
26	14	1509	C
26	14	1510	A
26	14	1515	C
26	14	1516	U
26	14	1522	G
26	14	1523	U
26	14	1528	A
26	14	1533	C
26	14	1534	G
26	14	1535	U
26	14	1537	C
26	14	1540	G
26	14	1543	A
26	14	1554	A
26	14	1555	G
26	14	1558	A
26	14	1559	G
26	14	1560	G
26	14	1562	A
26	14	1566	A
26	14	1569	A
26	14	1570	A
26	14	1578	U
26	14	1580	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	1585	C
26	14	1586	A
26	14	1588	C
26	14	1594	G
26	14	1595	G
26	14	1597	A
26	14	1598	C
26	14	1606	G
26	14	1607	C
26	14	1608	A
26	14	1609	A
26	14	1610	A
26	14	1614	A
26	14	1630(A)	C
26	14	1640	C
26	14	1644	C
26	14	1647	G
26	14	1648	C
26	14	1654	A
26	14	1664	A
26	14	1669	A
26	14	1674	G
26	14	1675	C
26	14	1680	U
26	14	1696	G
26	14	1700	A
26	14	1701	A
26	14	1703	G
26	14	1717	G
26	14	1725	G
26	14	1726	G
26	14	1729	A
26	14	1730	U
26	14	1731	G
26	14	1732	A
26	14	1742	C
26	14	1743	G
26	14	1756	G
26	14	1762	A
26	14	1763	G
26	14	1764	G
26	14	1773	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	1776	G
26	14	1780	A
26	14	1781	C
26	14	1782	C
26	14	1791	A
26	14	1800	C
26	14	1801	G
26	14	1808	U
26	14	1816	G
26	14	1820	U
26	14	1828	G
26	14	1829	A
26	14	1839	G
26	14	1847	A
26	14	1858	G
26	14	1860	G
26	14	1870	C
26	14	1878	G
26	14	1886	C
26	14	1888	G
26	14	1889	A
26	14	1894	C
26	14	1900	A
26	14	1906	G
26	14	1909	C
26	14	1917	U
26	14	1929	G
26	14	1930	G
26	14	1931	U
26	14	1936	A
26	14	1937	A
26	14	1938	A
26	14	1947	C
26	14	1955	U
26	14	1963	U
26	14	1967	C
26	14	1970	A
26	14	1971	A
26	14	1972	A
26	14	1993	U
26	14	2016	U
26	14	2023	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	2031	A
26	14	2032	G
26	14	2033	A
26	14	2039	C
26	14	2043	C
26	14	2055	C
26	14	2056	G
26	14	2060	A
26	14	2061	G
26	14	2062	A
26	14	2063	C
26	14	2069	G
26	14	2074	U
26	14	2088	G
26	14	2095	C
26	14	2099	U
26	14	2100	G
26	14	2108	C
26	14	2110	G
26	14	2111	C
26	14	2114	A
26	14	2115	G
26	14	2116	G
26	14	2117	A
26	14	2122	U
26	14	2124	G
26	14	2125	G
26	14	2126	A
26	14	2127	G
26	14	2128	C
26	14	2129	C
26	14	2130	U
26	14	2132	U
26	14	2133	G
26	14	2134	A
26	14	2135	A
26	14	2136	C
26	14	2137	C
26	14	2139	C
26	14	2140	C
26	14	2142	C
26	14	2145	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	2146	C
26	14	2147	G
26	14	2148	G
26	14	2150	U
26	14	2151	G
26	14	2153	G
26	14	2157	G
26	14	2158	A
26	14	2162	G
26	14	2164	C
26	14	2165	G
26	14	2166	G
26	14	2168	G
26	14	2171	A
26	14	2172	U
26	14	2173	A
26	14	2174	C
26	14	2175	C
26	14	2176	A
26	14	2179	C
26	14	2186	G
26	14	2188	C
26	14	2189	U
26	14	2190	G
26	14	2191	G
26	14	2192	G
26	14	2198	A
26	14	2210	G
26	14	2211	G
26	14	2212	A
26	14	2213	U
26	14	2215	G
26	14	2225	A
26	14	2231	C
26	14	2238	G
26	14	2239	G
26	14	2249	U
26	14	2251	G
26	14	2259	G
26	14	2267	A
26	14	2269	A
26	14	2273	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	2275	C
26	14	2276	G
26	14	2277	G
26	14	2278	A
26	14	2280	G
26	14	2283	C
26	14	2287	A
26	14	2288	A
26	14	2305	A
26	14	2307	G
26	14	2308	G
26	14	2309	A
26	14	2310	A
26	14	2311	A
26	14	2312	U
26	14	2318	G
26	14	2319	G
26	14	2321	G
26	14	2324	C
26	14	2325	G
26	14	2327	A
26	14	2328	A
26	14	2334	G
26	14	2336	A
26	14	2343	C
26	14	2346	A
26	14	2347	C
26	14	2350	C
26	14	2354	G
26	14	2357	U
26	14	2372	G
26	14	2383	G
26	14	2385	C
26	14	2388	A
26	14	2389	G
26	14	2392	A
26	14	2400	G
26	14	2402	C
26	14	2406	U
26	14	2407	G
26	14	2414	G
26	14	2422	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	2429	G
26	14	2430	A
26	14	2431	U
26	14	2432	A
26	14	2434	A
26	14	2435	A
26	14	2439	A
26	14	2440	C
26	14	2441	C
26	14	2445	G
26	14	2448	A
26	14	2449	U
26	14	2468	G
26	14	2469	A
26	14	2476	A
26	14	2477	C
26	14	2478	A
26	14	2487	G
26	14	2489	G
26	14	2496	C
26	14	2497	A
26	14	2502	G
26	14	2504	U
26	14	2505	G
26	14	2506	U
26	14	2513	G
26	14	2517	C
26	14	2518	A
26	14	2525	G
26	14	2529	G
26	14	2532	G
26	14	2542	A
26	14	2543	G
26	14	2554	U
26	14	2566	A
26	14	2567	G
26	14	2569	G
26	14	2573	C
26	14	2585	U
26	14	2599	G
26	14	2602	A
26	14	2608	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	2609	U
26	14	2611	U
26	14	2612	C
26	14	2630	G
26	14	2634	G
26	14	2636	U
26	14	2665	A
26	14	2667	C
26	14	2673	G
26	14	2679	A
26	14	2689	U
26	14	2690	C
26	14	2702	U
26	14	2703	C
26	14	2707	G
26	14	2712(A)	A
26	14	2713	A
26	14	2714	G
26	14	2726	U
26	14	2729	G
26	14	2730	C
26	14	2733	A
26	14	2739	U
26	14	2744	G
26	14	2748	A
26	14	2750	A
26	14	2751	G
26	14	2752	C
26	14	2756	U
26	14	2758	A
26	14	2764	A
26	14	2765	A
26	14	2766	G
26	14	2777	G
26	14	2778	A
26	14	2779	U
26	14	2780	G
26	14	2790	A
26	14	2791	C
26	14	2792	G
26	14	2793	G
26	14	2794	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	2795	G
26	14	2797	U
26	14	2798	C
26	14	2799	A
26	14	2801	A
26	14	2802	G
26	14	2805	G
26	14	2808	U
26	14	2810	A
26	14	2820	A
26	14	2821	A
26	14	2833	G
26	14	2834	G
26	14	2835	A
26	14	2849	U
26	14	2860	A
26	14	2864	G
26	14	2872	G
26	14	2873	A
26	14	2874	C
26	14	2879	C
26	14	2880	C
26	14	2891	G
26	14	2892	A
26	14	2893	G
26	14	2894	G
26	14	2896	C
26	14	2899	G
27	1J	3	C
27	1J	8	U
27	1J	9	G
27	1J	10	C
27	1J	13	A
27	1J	15	A
27	1J	16	G
27	1J	22	U
27	1J	24	G
27	1J	26	A
27	1J	27	C
27	1J	28	C
27	1J	29	A
27	1J	30	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
27	1J	40	U
27	1J	42	C
27	1J	44	G
27	1J	45	A
27	1J	53	A
27	1J	58	A
27	1J	59	A
27	1J	67	G
27	1J	73	A
27	1J	77	U
27	1J	81	G
27	1J	88	C
27	1J	89	G
27	1J	89(A)	A
27	1J	90	C
27	1J	101	A
27	1J	108	C
27	1J	109	G
27	1J	119	A

All (183) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	13	5	U
1	13	31	G
1	13	50	A
1	13	115	G
1	13	163	C
1	13	243	A
1	13	244	U
1	13	266	G
1	13	327	A
1	13	389	A
1	13	428	G
1	13	429	U
1	13	484	G
1	13	509	A
1	13	560	U
1	13	628	G
1	13	687	A
1	13	703	G
1	13	748	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	13	793	U
1	13	871	U
1	13	913	A
1	13	992	U
1	13	1006	C
1	13	1065	U
1	13	1126	U
1	13	1157	A
1	13	1285	A
1	13	1336	C
1	13	1397	C
1	13	1498	U
1	13	1533	C
22	1K	6	G
22	1K	48	C
22	1K	69	A
23	2K	48	U
24	3K	2	G
24	3K	17	U
24	3K	58	A
25	4K	18	G
26	1H	70	G
26	1H	125	G
26	1H	196	A
26	1H	222	A
26	1H	242	G
26	1H	271(B)	G
26	1H	334	C
26	1H	404	C
26	1H	508	G
26	1H	528	A
26	1H	645	C
26	1H	668	G
26	1H	746	A
26	1H	752	A
26	1H	776	G
26	1H	845	G
26	1H	880	G
26	1H	974	G
26	1H	1022	G
26	1H	1026	U
26	1H	1047	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	1H	1210	A
26	1H	1378	A
26	1H	1379	A
26	1H	1396	U
26	1H	1416	G
26	1H	1493	C
26	1H	1508	A
26	1H	1509	C
26	1H	1558	A
26	1H	1608	A
26	1H	1609	A
26	1H	1757	U
26	1H	1799	G
26	1H	1900	A
26	1H	1992	G
26	1H	2035	G
26	1H	2060	A
26	1H	2062	A
26	1H	2172	U
26	1H	2225	A
26	1H	2346	A
26	1H	2422	A
26	1H	2428	G
26	1H	2439	A
26	1H	2448	A
26	1H	2476	A
26	1H	2611	U
26	1H	2681	C
26	1H	2756	U
26	1H	2797	U
27	16	44	G
27	16	108	C
1	1G	64	G
1	1G	80	G
1	1G	89	U
1	1G	115	G
1	1G	143	A
1	1G	197	A
1	1G	250	A
1	1G	266	G
1	1G	327	A
1	1G	345	C

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	1G	353	A
1	1G	412	A
1	1G	413	G
1	1G	429	U
1	1G	509	A
1	1G	560	U
1	1G	687	A
1	1G	748	C
1	1G	913	A
1	1G	992	U
1	1G	1126	U
1	1G	1137	C
1	1G	1139	G
1	1G	1145	C
1	1G	1157	A
1	1G	1285	A
1	1G	1300	G
1	1G	1442	G
1	1G	1498	U
1	1G	1533	C
22	1L	3	G
22	1L	6	G
22	1L	18	G
22	1L	48	C
22	1L	69	A
23	2L	33	OMC
23	2L	48	U
26	14	34	C
26	14	49	A
26	14	71	A
26	14	83	G
26	14	90	U
26	14	128	C
26	14	278	A
26	14	528	A
26	14	530	G
26	14	627	A
26	14	752	A
26	14	764	A
26	14	784	A
26	14	791	C
26	14	930	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
26	14	960	A
26	14	1022	G
26	14	1141	U
26	14	1177	A
26	14	1379	A
26	14	1396	U
26	14	1416	G
26	14	1444(A)	A
26	14	1534	G
26	14	1558	A
26	14	1608	A
26	14	1609	A
26	14	1610	A
26	14	1819	A
26	14	1899	G
26	14	1936	A
26	14	1992	G
26	14	2107	C
26	14	2133	G
26	14	2173	A
26	14	2211	G
26	14	2238	G
26	14	2275	C
26	14	2308	G
26	14	2335	A
26	14	2406	U
26	14	2439	A
26	14	2477	C
26	14	2572	A
26	14	2598	A
26	14	2611	U
26	14	2629	A
26	14	2689	U
26	14	2776	A
26	14	2790	A
26	14	2859	G
27	1J	88	C
27	1J	89	G

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

22 non-standard protein/DNA/RNA residues are modelled in this entry.

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$
22	T6A	1K	37	22	31,34,35	2.16	9 (29%)	43,49,52	2.05	11 (25%)
22	5MU	1K	54	22	19,22,23	3.76	5 (26%)	27,32,35	2.99	6 (22%)
22	T6A	1L	37	22	31,34,35	2.03	5 (16%)	43,49,52	2.29	15 (34%)
24	PSU	3K	39	24	18,21,22	1.32	3 (16%)	21,30,33	1.96	7 (33%)
23	PSU	2L	56	23	18,21,22	1.26	1 (5%)	21,30,33	1.98	4 (19%)
23	5MU	2L	55	23	19,22,23	3.92	5 (26%)	27,32,35	3.47	10 (37%)
24	PSU	3L	39	24	18,21,22	1.20	1 (5%)	21,30,33	1.54	2 (9%)
23	G7M	2K	47	23	23,26,27	2.56	9 (39%)	34,39,42	1.63	10 (29%)
22	PSU	1L	55	22	18,21,22	1.17	1 (5%)	21,30,33	1.69	4 (19%)
22	PSU	1L	39	22	18,21,22	1.15	1 (5%)	21,30,33	1.72	3 (14%)
23	G7M	2L	47	23	23,26,27	2.69	8 (34%)	34,39,42	1.79	7 (20%)
23	4SU	2L	8	23	18,21,22	1.87	3 (16%)	25,30,33	2.68	4 (16%)
23	OMC	2L	33	23	19,22,23	1.82	4 (21%)	25,31,34	1.29	2 (8%)
22	U8U	1K	34	22	20,24,25	2.41	6 (30%)	22,34,37	0.94	1 (4%)
23	PSU	2K	56	23	18,21,22	1.27	2 (11%)	21,30,33	1.86	4 (19%)
23	5MU	2K	55	23	19,22,23	3.75	5 (26%)	27,32,35	3.43	7 (25%)
22	U8U	1L	34	22,25	20,24,25	2.41	6 (30%)	22,34,37	0.80	2 (9%)
22	5MU	1L	54	22	19,22,23	4.03	5 (26%)	27,32,35	3.38	9 (33%)
23	OMC	2K	33	23	19,22,23	1.72	3 (15%)	25,31,34	1.16	2 (8%)
23	4SU	2K	8	23	18,21,22	1.98	5 (27%)	25,30,33	2.83	8 (32%)
22	PSU	1K	55	22	18,21,22	1.21	1 (5%)	21,30,33	1.60	4 (19%)
22	PSU	1K	39	22	18,21,22	0.96	1 (5%)	21,30,33	1.64	3 (14%)

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
22	T6A	1K	37	22	-	5/23/41/42	0/3/3/3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	5MU	1K	54	22	-	0/7/25/26	0/2/2/2
22	T6A	1L	37	22	-	5/23/41/42	0/3/3/3
24	PSU	3K	39	24	-	2/7/25/26	0/2/2/2
23	PSU	2L	56	23	-	1/7/25/26	0/2/2/2
23	5MU	2L	55	23	-	3/7/25/26	0/2/2/2
24	PSU	3L	39	24	-	0/7/25/26	0/2/2/2
23	G7M	2K	47	23	-	1/7/25/26	0/3/3/3
22	PSU	1L	55	22	-	2/7/25/26	0/2/2/2
22	PSU	1L	39	22	-	1/7/25/26	0/2/2/2
23	G7M	2L	47	23	-	3/7/25/26	0/3/3/3
23	4SU	2L	8	23	-	1/7/25/26	0/2/2/2
23	OMC	2L	33	23	-	3/9/27/28	0/2/2/2
22	U8U	1K	34	22	-	0/10/28/29	0/2/2/2
23	PSU	2K	56	23	-	0/7/25/26	0/2/2/2
23	5MU	2K	55	23	-	0/7/25/26	0/2/2/2
22	U8U	1L	34	22,25	-	5/10/28/29	0/2/2/2
22	5MU	1L	54	22	-	3/7/25/26	0/2/2/2
23	OMC	2K	33	23	-	0/9/27/28	0/2/2/2
23	4SU	2K	8	23	-	2/7/25/26	0/2/2/2
22	PSU	1K	55	22	-	0/7/25/26	0/2/2/2
22	PSU	1K	39	22	-	1/7/25/26	0/2/2/2

All (89) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1L	54	5MU	C2-N1	13.27	1.59	1.38
23	2L	55	5MU	C2-N1	12.75	1.58	1.38
22	1K	54	5MU	C2-N1	11.98	1.57	1.38
23	2K	55	5MU	C2-N1	11.80	1.56	1.38
23	2K	47	G7M	C4-N3	6.57	1.49	1.34
23	2L	47	G7M	C4-N3	6.35	1.48	1.34
23	2L	55	5MU	C4-N3	-6.35	1.27	1.38
22	1L	54	5MU	C4-N3	-6.18	1.27	1.38
23	2K	55	5MU	C2-N3	6.13	1.48	1.38
23	2K	55	5MU	C4-N3	-5.82	1.27	1.38
22	1K	37	T6A	C10-N6	5.77	1.50	1.37
22	1L	37	T6A	C10-N6	5.75	1.50	1.37
23	2L	8	4SU	C5-C4	5.73	1.49	1.42
22	1L	54	5MU	C2-N3	5.72	1.47	1.38
22	1K	54	5MU	C4-N3	-5.71	1.28	1.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1K	54	5MU	C2-N3	5.70	1.47	1.38
23	2L	55	5MU	C2-N3	5.67	1.47	1.38
22	1L	37	T6A	C10-N11	5.61	1.50	1.35
22	1K	54	5MU	C6-N1	5.61	1.47	1.38
23	2K	8	4SU	C5-C4	5.61	1.49	1.42
23	2L	47	G7M	C2-N3	5.58	1.46	1.33
22	1L	54	5MU	C4-C5	5.53	1.53	1.44
22	1K	34	U8U	C2-S2	-5.46	1.59	1.67
23	2K	55	5MU	C6-N1	5.39	1.47	1.38
23	2L	47	G7M	C5-N7	-5.38	1.33	1.39
23	2L	55	5MU	C4-C5	5.37	1.53	1.44
22	1K	34	U8U	C6-C5	5.28	1.49	1.35
22	1L	54	5MU	C6-N1	5.22	1.46	1.38
22	1L	34	U8U	C6-C5	5.18	1.49	1.35
23	2L	33	OMC	C2-N3	5.18	1.46	1.36
22	1K	37	T6A	C10-N11	5.16	1.49	1.35
23	2K	47	G7M	C2-N3	5.11	1.45	1.33
23	2L	55	5MU	C6-N1	5.04	1.46	1.38
22	1K	54	5MU	C4-C5	5.02	1.53	1.44
23	2L	47	G7M	C2-N2	4.88	1.45	1.34
22	1L	34	U8U	C2-N3	4.88	1.50	1.38
23	2K	55	5MU	C4-C5	4.87	1.52	1.44
22	1L	37	T6A	C6-N6	4.77	1.49	1.39
22	1K	37	T6A	C6-N6	4.62	1.49	1.39
23	2K	33	OMC	C2-N3	4.59	1.45	1.36
22	1L	34	U8U	C2-S2	-4.52	1.60	1.67
23	2K	8	4SU	C2-N1	4.48	1.45	1.38
22	1L	34	U8U	C6-N1	4.37	1.45	1.38
22	1K	55	PSU	C6-C5	4.35	1.40	1.35
23	2K	47	G7M	C5-N7	-4.34	1.34	1.39
22	1K	34	U8U	C6-N1	4.31	1.45	1.38
23	2L	56	PSU	C6-C5	4.30	1.40	1.35
23	2K	33	OMC	C4-N4	4.22	1.44	1.33
24	3K	39	PSU	C6-C5	4.18	1.39	1.35
22	1L	39	PSU	C6-C5	4.11	1.39	1.35
23	2K	47	G7M	C5-C6	4.05	1.54	1.43
23	2K	47	G7M	C2-N2	4.04	1.43	1.34
22	1K	34	U8U	C2-N3	4.01	1.48	1.38
23	2L	33	OMC	C4-N4	3.92	1.43	1.33
24	3L	39	PSU	C6-C5	3.91	1.39	1.35
23	2L	47	G7M	C5-C6	3.86	1.54	1.43
23	2K	56	PSU	C6-C5	3.82	1.39	1.35

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	1L	34	U8U	C4-N3	3.78	1.45	1.38
22	1L	55	PSU	C6-C5	3.60	1.39	1.35
22	1K	37	T6A	C4-N9	-3.53	1.30	1.37
22	1K	37	T6A	C5-N7	-3.30	1.33	1.39
23	2L	8	4SU	C2-N1	3.26	1.43	1.38
22	1K	39	PSU	C6-C5	3.10	1.38	1.35
23	2L	8	4SU	C6-N1	3.05	1.45	1.38
23	2L	33	OMC	C5-C4	3.03	1.50	1.42
22	1K	34	U8U	C4-N3	2.99	1.44	1.38
23	2K	33	OMC	C5-C4	2.88	1.49	1.42
23	2K	47	G7M	C2-N1	2.88	1.44	1.37
23	2L	47	G7M	C2-N1	2.85	1.44	1.37
22	1K	37	T6A	C5-C6	-2.70	1.35	1.41
23	2K	8	4SU	C4-N3	2.66	1.40	1.37
22	1K	37	T6A	C5-C4	-2.65	1.34	1.39
22	1L	37	T6A	ODB-C13	-2.61	1.22	1.30
23	2L	47	G7M	C6-N1	2.52	1.43	1.38
23	2K	47	G7M	C6-N1	2.52	1.43	1.38
23	2K	47	G7M	C4-N9	-2.40	1.31	1.38
23	2K	8	4SU	C6-N1	2.38	1.43	1.38
22	1K	34	U8U	O4-C4	-2.35	1.19	1.23
23	2L	47	G7M	O6-C6	-2.33	1.19	1.23
23	2L	33	OMC	C6-N1	2.31	1.43	1.38
23	2K	56	PSU	C4-C5	-2.31	1.37	1.44
23	2K	8	4SU	C2-N3	2.27	1.41	1.38
22	1L	34	U8U	O4-C4	-2.25	1.19	1.23
22	1K	37	T6A	ODA-C13	2.16	1.28	1.22
23	2K	47	G7M	O6-C6	-2.15	1.19	1.23
22	1L	37	T6A	C2-N1	2.13	1.37	1.33
24	3K	39	PSU	C2-N1	2.09	1.39	1.36
22	1K	37	T6A	ODB-C13	-2.07	1.24	1.30
24	3K	39	PSU	C4-C5	-2.01	1.38	1.44

All (125) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2K	55	5MU	C5-C4-N3	11.11	124.98	115.32
23	2L	55	5MU	C5-C4-N3	10.45	124.40	115.32
22	1K	54	5MU	C5-C4-N3	10.24	124.22	115.32
22	1L	54	5MU	C5-C4-N3	10.12	124.12	115.32
23	2L	8	4SU	C4-N3-C2	-8.63	119.04	127.31
23	2K	8	4SU	C4-N3-C2	-8.20	119.45	127.31

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2L	8	4SU	C5-C4-N3	7.69	121.91	114.75
23	2L	55	5MU	C4-N3-C2	-7.06	118.08	127.34
23	2L	55	5MU	C6-C5-C4	6.78	123.61	118.02
22	1K	37	T6A	N3-C2-N1	-6.78	118.33	128.58
22	1L	54	5MU	C4-N3-C2	-6.77	118.46	127.34
23	2L	55	5MU	C5-C6-N1	-6.76	115.97	123.31
23	2K	8	4SU	C5-C4-S4	-6.73	116.62	124.31
22	1L	54	5MU	C6-C5-C4	6.67	123.51	118.02
23	2K	55	5MU	C4-N3-C2	-6.55	118.75	127.34
22	1K	37	T6A	C12-N11-C10	6.25	132.39	121.99
22	1L	37	T6A	N6-C10-N11	6.23	122.34	113.77
23	2K	55	5MU	C5-C6-N1	-6.23	116.54	123.31
23	2K	55	5MU	O4-C4-C5	-6.23	117.79	124.92
22	1L	54	5MU	C5-C6-N1	-6.16	116.62	123.31
22	1L	37	T6A	N3-C2-N1	-5.84	119.75	128.58
22	1K	54	5MU	C5-C6-N1	-5.60	117.23	123.31
23	2K	55	5MU	C6-C5-C4	5.28	122.37	118.02
22	1K	54	5MU	C4-N3-C2	-5.26	120.45	127.34
23	2L	56	PSU	C4-N3-C2	-5.10	119.34	126.37
22	1K	54	5MU	O4-C4-C5	-5.10	119.09	124.92
23	2L	56	PSU	N1-C2-N3	5.02	120.46	115.17
22	1L	54	5MU	C5M-C5-C6	-4.87	116.27	122.85
23	2L	33	OMC	O2'-C2'-C1'	4.82	118.14	108.99
23	2K	56	PSU	C4-N3-C2	-4.75	119.83	126.37
22	1L	37	T6A	C5-C4-N3	-4.69	120.25	126.72
22	1K	39	PSU	C4-N3-C2	-4.68	119.93	126.37
24	3K	39	PSU	C4-N3-C2	-4.66	119.95	126.37
23	2L	55	5MU	O4-C4-C5	-4.61	119.65	124.92
23	2K	8	4SU	C5-C4-N3	4.57	119.00	114.75
23	2L	55	5MU	C5M-C5-C6	-4.53	116.72	122.85
23	2K	56	PSU	N1-C2-N3	4.52	119.94	115.17
22	1K	54	5MU	C6-C5-C4	4.49	121.72	118.02
24	3K	39	PSU	N1-C2-N3	4.39	119.79	115.17
22	1L	39	PSU	C4-N3-C2	-4.34	120.40	126.37
23	2L	47	G7M	C2-N3-C4	4.29	119.70	112.30
22	1L	55	PSU	C4-N3-C2	-4.26	120.50	126.37
23	2L	47	G7M	C5-C4-N3	-4.24	120.14	128.15
24	3L	39	PSU	C4-N3-C2	-4.17	120.62	126.37
23	2K	8	4SU	N3-C2-N1	4.15	120.29	114.89
22	1L	54	5MU	O4-C4-C5	-4.14	120.18	124.92
23	2L	8	4SU	C5-C4-S4	-4.08	119.65	124.31
22	1L	37	T6A	O10-C10-N6	-4.05	116.44	123.64

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	2K	55	5MU	C5M-C5-C6	-4.02	117.41	122.85
22	1L	39	PSU	N1-C2-N3	3.99	119.38	115.17
23	2K	8	4SU	S4-C4-N3	3.99	124.38	120.20
22	1K	54	5MU	C5M-C5-C6	-3.92	117.54	122.85
23	2L	47	G7M	C5-C6-N1	3.91	119.92	111.84
23	2L	8	4SU	N3-C2-N1	3.83	119.87	114.89
22	1L	37	T6A	N9-C8-N7	-3.76	108.60	113.94
22	1L	55	PSU	N1-C2-N3	3.71	119.08	115.17
22	1K	39	PSU	N1-C2-N3	3.69	119.06	115.17
22	1K	55	PSU	N1-C2-N3	3.62	118.99	115.17
22	1L	39	PSU	O2-C2-N1	-3.62	119.06	122.79
23	2K	55	5MU	O2-C2-N1	-3.61	118.10	122.80
22	1K	37	T6A	N9-C8-N7	-3.60	108.82	113.94
23	2L	47	G7M	O6-C6-C5	-3.56	120.07	128.01
23	2K	8	4SU	C1'-N1-C2	3.53	123.93	117.59
22	1L	37	T6A	C4-C5-C6	3.46	119.65	116.78
23	2L	47	G7M	C2-N1-C6	-3.45	118.84	125.11
24	3L	39	PSU	N1-C2-N3	3.45	118.81	115.17
22	1K	37	T6A	C4-C5-C6	3.42	119.62	116.78
22	1L	37	T6A	C2-N3-C4	3.35	120.02	111.83
22	1K	55	PSU	C4-N3-C2	-3.35	121.76	126.37
23	2K	47	G7M	CN7-N7-C5	3.27	130.88	126.80
23	2K	47	G7M	C1'-N9-C4	-3.26	116.84	126.49
23	2L	55	5MU	N3-C2-N1	3.24	119.11	114.89
22	1L	54	5MU	N3-C2-N1	3.16	119.00	114.89
23	2K	47	G7M	C5-C6-N1	3.13	118.31	111.84
22	1K	55	PSU	C6-N1-C2	-3.13	119.79	122.69
24	3K	39	PSU	C6-C5-C4	3.09	120.26	118.17
22	1L	37	T6A	C5-N7-C8	3.08	108.28	103.45
23	2K	56	PSU	C6-N1-C2	-3.05	119.86	122.69
22	1L	54	5MU	C6-N1-C2	-3.04	118.28	121.30
23	2K	47	G7M	C5-C4-N3	-3.03	122.42	128.15
23	2L	56	PSU	O2-C2-N1	-3.03	119.67	122.79
22	1L	37	T6A	ODB-C13-ODA	-3.00	117.28	124.08
22	1L	37	T6A	C4-C5-N7	-2.94	107.22	110.58
23	2K	47	G7M	C2-N3-C4	2.86	117.22	112.30
23	2K	47	G7M	CN7-N7-C8	-2.82	120.52	124.79
22	1K	34	U8U	C5-C4-N3	2.82	119.51	115.21
22	1K	37	T6A	C4-N9-C8	2.75	108.63	105.74
22	1K	37	T6A	C2-N1-C6	2.75	124.35	115.24
23	2K	47	G7M	C2-N1-C6	-2.74	120.14	125.11
22	1L	37	T6A	C5-C4-N9	2.71	108.76	105.81

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	3K	39	PSU	O2-C2-N1	-2.70	120.00	122.79
23	2K	33	OMC	C1'-N1-C2	2.62	124.23	118.44
23	2L	47	G7M	N9-C4-N3	2.60	131.15	125.95
22	1K	37	T6A	N6-C6-N1	2.57	124.20	117.54
22	1K	37	T6A	C6-C5-N7	-2.51	129.69	132.43
22	1K	55	PSU	O2-C2-N1	-2.51	120.20	122.79
23	2L	55	5MU	C6-N1-C2	-2.50	118.81	121.30
23	2K	47	G7M	O6-C6-C5	-2.48	122.47	128.01
22	1L	55	PSU	C6-C5-C4	2.45	119.83	118.17
23	2K	33	OMC	N4-C4-N3	2.45	122.28	117.91
24	3K	39	PSU	C6-N1-C2	-2.41	120.46	122.69
22	1K	39	PSU	O2-C2-N1	-2.40	120.31	122.79
22	1L	34	U8U	C5-C4-N3	2.36	118.81	115.21
22	1L	54	5MU	O4-C4-N3	-2.35	115.70	120.11
22	1K	37	T6A	C2-N3-C4	2.34	117.54	111.83
23	2L	33	OMC	N4-C4-N3	2.33	122.08	117.91
23	2K	47	G7M	N9-C8-N7	-2.31	106.88	112.48
23	2L	56	PSU	C6-N1-C2	-2.27	120.59	122.69
23	2K	8	4SU	C6-C5-C4	2.26	121.91	119.95
22	1K	37	T6A	C5-C4-N3	-2.25	123.62	126.72
22	1L	37	T6A	N3-C4-N9	2.24	130.98	127.17
22	1L	34	U8U	O4-C4-C5	-2.23	120.96	124.71
23	2L	47	G7M	CN7-N7-C5	2.22	129.57	126.80
23	2L	55	5MU	O4-C4-N3	-2.22	115.95	120.11
22	1L	55	PSU	O4'-C1'-C2'	2.16	108.14	105.15
22	1K	37	T6A	C4-N9-C1'	-2.16	121.58	126.63
23	2K	8	4SU	C1'-N1-C6	-2.15	116.18	120.78
24	3K	39	PSU	O4-C4-C5	-2.13	118.72	124.01
22	1L	37	T6A	ODB-C13-C12	2.11	121.48	114.15
23	2K	56	PSU	O2-C2-N3	-2.10	118.14	121.86
23	2K	47	G7M	C1'-N9-C8	2.09	133.79	126.74
23	2L	55	5MU	O2-C2-N1	-2.07	120.10	122.80
24	3K	39	PSU	O4'-C1'-C2'	2.04	107.98	105.15
22	1L	37	T6A	C4-N9-C1'	-2.04	121.87	126.63
22	1L	37	T6A	C13-C12-N11	2.04	114.65	110.17

There are no chirality outliers.

All (38) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	1L	34	U8U	N-C-C5-C4
22	1L	34	U8U	C5-C-N-CA

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
22	1L	37	T6A	C5-C6-N6-C10
22	1L	37	T6A	N1-C6-N6-C10
22	1L	54	5MU	O4'-C4'-C5'-O5'
23	2L	47	G7M	O4'-C4'-C5'-O5'
22	1L	34	U8U	C3'-C4'-C5'-O5'
22	1L	34	U8U	O4'-C4'-C5'-O5'
22	1L	54	5MU	C3'-C4'-C5'-O5'
23	2K	8	4SU	O4'-C4'-C5'-O5'
23	2L	47	G7M	C3'-C4'-C5'-O5'
23	2L	55	5MU	C3'-C4'-C5'-O5'
23	2L	55	5MU	O4'-C4'-C5'-O5'
23	2K	8	4SU	C3'-C4'-C5'-O5'
22	1L	37	T6A	C13-C12-C14-O14
22	1L	37	T6A	C13-C12-C14-C15
22	1K	37	T6A	N11-C12-C13-ODB
22	1L	37	T6A	C14-C12-N11-C10
22	1K	37	T6A	N11-C12-C13-ODA
22	1K	39	PSU	O4'-C1'-C5-C4
24	3K	39	PSU	O4'-C1'-C5-C4
22	1L	39	PSU	O4'-C1'-C5-C4
22	1L	55	PSU	O4'-C1'-C5-C4
22	1L	54	5MU	C4'-C5'-O5'-P
23	2L	55	5MU	C4'-C5'-O5'-P
22	1K	37	T6A	C13-C12-N11-C10
23	2L	56	PSU	O4'-C4'-C5'-O5'
24	3K	39	PSU	O4'-C1'-C5-C6
22	1L	55	PSU	O4'-C1'-C5-C6
22	1K	37	T6A	C14-C12-N11-C10
22	1L	34	U8U	N-C-C5-C6
23	2K	47	G7M	O4'-C4'-C5'-O5'
23	2L	33	OMC	C4'-C5'-O5'-P
23	2L	33	OMC	C2'-C1'-N1-C6
22	1K	37	T6A	C14-C12-C13-ODB
23	2L	33	OMC	O4'-C1'-N1-C6
23	2L	47	G7M	C2'-C1'-N9-C8
23	2L	8	4SU	O4'-C4'-C5'-O5'

There are no ring outliers.

12 monomers are involved in 25 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	1K	37	T6A	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	2L	55	5MU	3	0
22	1L	55	PSU	2	0
22	1L	39	PSU	2	0
23	2L	47	G7M	1	0
23	2L	8	4SU	4	0
23	2L	33	OMC	3	0
22	1K	34	U8U	1	0
23	2K	55	5MU	3	0
22	1L	34	U8U	1	0
22	1L	54	5MU	2	0
22	1K	39	PSU	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1081 ligands modelled in this entry, 1077 are monoatomic - leaving 4 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	$\# Z > 2$
57	PAR	13	1730	-	44,45,45	0.87	1 (2%)	63,67,67	2.16	21 (33%)
58	SF4	3E	302	4	0,12,12	-	-	-		
58	SF4	32	301	4	0,12,12	-	-	-		
57	PAR	1G	1681	-	44,45,45	0.78	1 (2%)	63,67,67	1.74	11 (17%)

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
57	PAR	13	1730	-	-	5/18/94/94	0/4/4/4
58	SF4	3E	302	4	-	-	0/6/5/5
58	SF4	32	301	4	-	-	0/6/5/5
57	PAR	1G	1681	-	-	4/18/94/94	0/4/4/4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	1G	1681	PAR	C31-C21	-2.75	1.50	1.53
57	13	1730	PAR	O54-C14	2.12	1.47	1.41

All (32) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	1G	1681	PAR	O52-C13-O43	-6.44	104.79	111.37
57	13	1730	PAR	O52-C13-O43	-5.89	105.35	111.37
57	13	1730	PAR	C32-C22-C12	-5.75	101.16	111.02
57	1G	1681	PAR	C13-O52-C52	-4.70	106.84	117.98
57	1G	1681	PAR	C14-O54-C54	4.68	122.86	113.72
57	13	1730	PAR	C11-C21-N21	-4.48	102.13	110.20
57	13	1730	PAR	O62-C62-C52	3.89	119.92	109.94
57	13	1730	PAR	O51-C11-C21	3.69	118.24	110.08
57	1G	1681	PAR	O54-C54-C64	3.62	113.03	106.07
57	13	1730	PAR	C11-O51-C51	3.58	120.71	113.72
57	13	1730	PAR	C22-C12-C62	-3.53	104.79	110.08
57	1G	1681	PAR	O51-C11-C21	3.48	117.78	110.08
57	13	1730	PAR	C62-C12-N12	-3.45	104.14	110.94
57	13	1730	PAR	O34-C34-C24	-3.30	104.28	110.22
57	13	1730	PAR	O51-C51-C41	3.16	115.39	109.70
57	13	1730	PAR	O11-C11-C21	-3.11	102.98	108.08
57	13	1730	PAR	C44-C34-C24	3.01	115.99	110.99
57	1G	1681	PAR	C14-O33-C33	-2.95	110.97	117.98
57	1G	1681	PAR	C11-O51-C51	2.78	119.14	113.72
57	13	1730	PAR	C11-C21-C31	2.71	117.08	110.29
57	13	1730	PAR	O11-C42-C32	-2.70	102.74	109.18
57	13	1730	PAR	C31-C21-N21	-2.67	105.57	111.05
57	13	1730	PAR	O54-C54-C64	2.66	111.18	106.07
57	13	1730	PAR	O33-C14-O54	2.59	117.50	110.69
57	1G	1681	PAR	C62-C12-N12	-2.56	105.88	110.94
57	13	1730	PAR	C14-O54-C54	2.31	118.22	113.72
57	1G	1681	PAR	C41-C31-C21	-2.28	107.21	110.99
57	13	1730	PAR	C34-C24-N24	2.28	115.72	111.05
57	13	1730	PAR	O34-C34-C44	-2.21	105.17	110.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	13	1730	PAR	C13-C23-C33	2.20	104.75	102.10
57	1G	1681	PAR	O51-C51-C41	2.10	113.49	109.70
57	1G	1681	PAR	O41-C41-C31	-2.08	105.47	110.38

There are no chirality outliers.

All (9) torsion outliers are listed below:

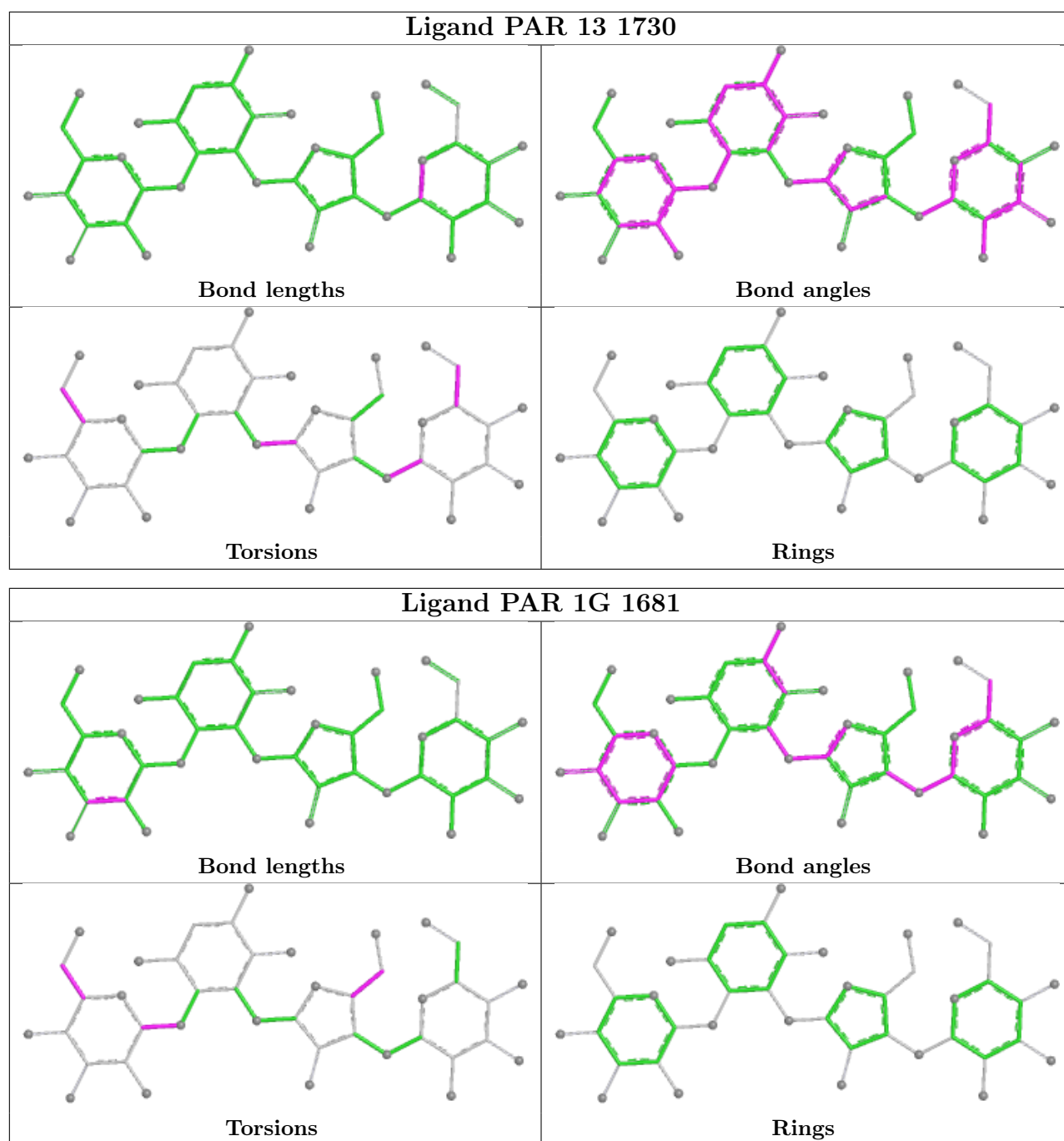
Mol	Chain	Res	Type	Atoms
57	13	1730	PAR	O54-C54-C64-N64
57	1G	1681	PAR	O51-C51-C61-O61
57	1G	1681	PAR	C41-C51-C61-O61
57	13	1730	PAR	C41-C51-C61-O61
57	1G	1681	PAR	O51-C11-O11-C42
57	13	1730	PAR	C24-C14-O33-C33
57	13	1730	PAR	O51-C51-C61-O61
57	13	1730	PAR	O43-C13-O52-C52
57	1G	1681	PAR	C33-C43-C53-O53

There are no ring outliers.

4 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
57	13	1730	PAR	3	0
58	3E	302	SF4	3	0
58	32	301	SF4	3	0
57	1G	1681	PAR	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
25	4K	1
37	35	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4K	24:A	O3'	25:A	P	4.27
1	35	121:LYS	C	122:PRO	N	1.61

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	13	1496/1522 (98%)	-0.74	2 (0%) 92 86	64, 104, 160, 189	0
1	1G	1507/1522 (99%)	-0.71	4 (0%) 90 80	78, 123, 164, 193	0
2	12	210/256 (82%)	0.10	2 (0%) 79 61	121, 148, 157, 163	0
2	1E	231/256 (90%)	0.01	3 (1%) 75 56	112, 136, 153, 161	0
3	22	196/239 (82%)	0.12	4 (2%) 65 44	128, 141, 155, 161	0
3	2E	205/239 (85%)	-0.38	0 100 100	90, 109, 133, 144	0
4	32	208/209 (99%)	0.28	6 (2%) 53 32	101, 123, 139, 150	0
4	3E	207/209 (99%)	-0.09	1 (0%) 87 73	88, 106, 126, 133	0
5	42	148/162 (91%)	0.22	2 (1%) 73 53	110, 128, 140, 145	0
5	4E	149/162 (91%)	0.07	3 (2%) 65 44	80, 101, 118, 130	0
6	52	101/101 (100%)	-0.07	1 (0%) 79 61	96, 111, 126, 136	0
6	5E	100/101 (99%)	0.01	4 (4%) 42 23	84, 102, 119, 129	0
7	62	138/156 (88%)	-0.03	4 (2%) 53 32	120, 131, 141, 145	0
7	6E	154/156 (98%)	-0.16	1 (0%) 85 70	105, 124, 144, 159	0
8	72	137/138 (99%)	-0.31	0 100 100	111, 131, 141, 147	0
8	7E	138/138 (100%)	0.21	2 (1%) 73 53	92, 110, 121, 130	0
9	82	121/128 (94%)	-0.04	2 (1%) 69 48	115, 146, 155, 160	0
9	8E	126/128 (98%)	-0.22	0 100 100	93, 132, 149, 152	0
10	1A	80/105 (76%)	0.16	3 (3%) 44 25	125, 141, 153, 156	0
10	1I	91/105 (86%)	-0.23	1 (1%) 78 59	84, 125, 153, 158	0
11	2A	113/129 (87%)	0.18	2 (1%) 67 47	90, 119, 128, 133	0
11	2I	111/129 (86%)	0.24	1 (0%) 81 63	82, 112, 129, 144	0
12	3A	122/132 (92%)	0.55	13 (10%) 11 6	88, 112, 132, 146	0
12	3I	122/132 (92%)	-0.15	4 (3%) 49 29	73, 82, 106, 139	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	4A	111/126 (88%)	0.03	1 (0%) 81 63	124, 141, 150, 165	0
13	4I	119/126 (94%)	-0.25	2 (1%) 69 48	94, 120, 135, 146	0
14	5A	59/61 (96%)	0.21	3 (5%) 33 18	130, 140, 148, 150	0
14	5I	60/61 (98%)	-0.53	0 100 100	88, 100, 112, 125	0
15	6A	87/89 (97%)	-0.59	0 100 100	93, 117, 132, 135	0
15	6I	87/89 (97%)	-0.24	0 100 100	84, 103, 120, 126	0
16	7A	84/88 (95%)	-0.08	0 100 100	93, 111, 130, 141	0
16	7I	83/88 (94%)	0.07	1 (1%) 76 58	102, 112, 135, 147	0
17	8A	99/105 (94%)	-0.38	1 (1%) 79 61	108, 120, 133, 138	0
17	8I	100/105 (95%)	-0.07	1 (1%) 79 61	89, 111, 126, 131	0
18	9A	67/88 (76%)	-0.12	3 (4%) 38 20	106, 117, 135, 139	0
18	9I	68/88 (77%)	0.18	2 (2%) 53 32	89, 105, 124, 127	0
19	AA	62/93 (66%)	0.38	4 (6%) 25 13	123, 149, 157, 163	0
19	AI	82/93 (88%)	-0.17	1 (1%) 76 58	99, 118, 134, 142	0
20	BA	99/106 (93%)	-0.45	0 100 100	94, 116, 141, 150	0
20	BI	97/106 (91%)	-0.09	2 (2%) 63 42	114, 126, 144, 148	0
21	1B	22/27 (81%)	-0.07	0 100 100	124, 136, 143, 147	0
21	1F	23/27 (85%)	-0.74	0 100 100	99, 109, 116, 120	0
22	1K	64/76 (84%)	0.77	10 (15%) 5 2	93, 158, 171, 173	0
22	1L	68/76 (89%)	0.17	4 (5%) 28 15	125, 171, 178, 184	0
23	2K	72/77 (93%)	-0.29	0 100 100	77, 104, 130, 146	0
23	2L	72/77 (93%)	-0.35	0 100 100	84, 122, 150, 165	0
24	3K	75/76 (98%)	0.46	6 (8%) 18 10	81, 170, 184, 189	0
24	3L	75/76 (98%)	0.06	2 (2%) 56 35	89, 167, 182, 188	0
25	4K	20/27 (74%)	0.78	4 (20%) 3 1	76, 144, 177, 178	0
25	4L	18/27 (66%)	0.12	0 100 100	103, 157, 182, 183	0
26	14	2861/2912 (98%)	-0.80	9 (0%) 90 80	58, 92, 173, 197	0
26	1H	2833/2912 (97%)	-0.84	10 (0%) 88 76	50, 80, 164, 199	0
27	16	122/122 (100%)	-0.98	0 100 100	75, 98, 119, 170	0
27	1J	122/122 (100%)	-0.76	1 (0%) 82 65	93, 123, 141, 174	0
28	7I	133/229 (58%)	0.12	1 (0%) 82 65	137, 169, 179, 181	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	79	57/229 (24%)	0.17	1 (1%) 67 47	139, 160, 169, 174	0
29	11	273/276 (98%)	0.09	4 (1%) 72 52	48, 74, 92, 101	0
29	19	274/276 (99%)	0.14	9 (3%) 49 29	60, 82, 99, 116	0
30	21	203/206 (98%)	-0.07	1 (0%) 87 73	58, 95, 135, 146	0
30	29	204/206 (99%)	-0.27	2 (0%) 79 61	67, 99, 134, 144	0
31	31	202/210 (96%)	-0.26	4 (1%) 65 44	54, 85, 119, 138	0
31	39	204/210 (97%)	-0.14	2 (0%) 79 61	64, 112, 147, 163	0
32	41	179/182 (98%)	-0.39	2 (1%) 78 59	87, 107, 136, 148	0
32	49	179/182 (98%)	0.09	3 (1%) 69 48	121, 137, 156, 168	0
33	51	171/180 (95%)	-0.01	6 (3%) 47 27	89, 110, 125, 137	0
33	59	69/180 (38%)	0.55	4 (5%) 29 16	131, 151, 162, 166	0
34	61	146/148 (98%)	-0.12	1 (0%) 84 68	85, 129, 142, 149	0
34	69	145/148 (97%)	0.08	9 (6%) 26 14	91, 126, 142, 151	0
35	15	138/140 (98%)	0.20	3 (2%) 62 41	87, 114, 138, 154	0
35	58	138/140 (98%)	0.10	4 (2%) 53 32	69, 97, 124, 140	0
36	25	122/122 (100%)	0.20	0 100 100	76, 96, 112, 118	0
36	68	122/122 (100%)	0.09	4 (3%) 49 29	63, 84, 101, 110	0
37	35	147/150 (98%)	0.19	6 (4%) 41 23	65, 110, 135, 148	0
37	78	147/150 (98%)	-0.11	2 (1%) 73 53	50, 89, 113, 128	0
38	45	138/141 (97%)	0.37	13 (9%) 14 8	84, 111, 129, 137	0
38	88	141/141 (100%)	-0.17	3 (2%) 63 42	58, 84, 107, 125	0
39	55	118/118 (100%)	-0.46	0 100 100	70, 86, 108, 121	0
39	98	118/118 (100%)	-0.17	0 100 100	71, 92, 112, 126	0
40	65	110/112 (98%)	-0.32	1 (0%) 81 63	91, 116, 132, 137	0
40	A8	111/112 (99%)	-0.38	0 100 100	76, 94, 117, 123	0
41	75	133/146 (91%)	0.06	7 (5%) 32 17	86, 102, 130, 142	0
41	B8	132/146 (90%)	0.01	3 (2%) 61 39	78, 99, 128, 138	0
42	85	116/118 (98%)	0.07	1 (0%) 81 63	76, 101, 130, 139	0
42	C8	115/118 (97%)	0.12	2 (1%) 69 48	65, 83, 114, 118	0
43	95	100/101 (99%)	0.36	5 (5%) 34 18	76, 123, 139, 141	0
43	D8	100/101 (99%)	0.42	5 (5%) 34 18	64, 105, 128, 134	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	A5	111/113 (98%)	-0.06	0 100 100	68, 84, 114, 141	0
44	E8	112/113 (99%)	0.08	2 (1%) 67 47	64, 82, 112, 142	0
45	B5	94/96 (97%)	-0.14	3 (3%) 50 30	75, 91, 115, 123	0
45	F8	95/96 (98%)	-0.24	1 (1%) 78 59	62, 79, 111, 125	0
46	C5	105/110 (95%)	0.71	15 (14%) 6 3	91, 124, 146, 152	0
46	G8	105/110 (95%)	0.26	7 (6%) 24 13	79, 101, 127, 132	0
47	D5	132/206 (64%)	-0.09	2 (1%) 72 52	115, 136, 152, 155	0
47	H8	171/206 (83%)	-0.07	1 (0%) 85 70	90, 124, 164, 168	0
48	E5	77/85 (90%)	-0.08	1 (1%) 75 56	75, 96, 113, 135	0
48	I8	76/85 (89%)	-0.27	1 (1%) 75 56	65, 78, 91, 107	0
49	F5	94/98 (95%)	0.48	6 (6%) 25 14	70, 90, 123, 133	0
49	J8	94/98 (95%)	-0.05	0 100 100	61, 81, 120, 128	0
50	G5	68/72 (94%)	-0.13	1 (1%) 72 52	88, 109, 129, 150	0
50	K8	68/72 (94%)	-0.08	0 100 100	66, 84, 104, 128	0
51	H5	58/60 (96%)	-0.18	0 100 100	85, 106, 134, 140	0
51	L8	58/60 (96%)	-0.22	0 100 100	65, 87, 115, 132	0
52	M8	47/71 (66%)	-0.14	0 100 100	111, 137, 156, 163	0
53	J5	56/60 (93%)	-0.16	0 100 100	67, 92, 137, 147	0
53	N8	48/60 (80%)	-0.30	0 100 100	61, 87, 134, 141	0
54	L5	47/49 (95%)	-0.33	2 (4%) 40 22	57, 68, 85, 103	0
54	P8	47/49 (95%)	-0.64	0 100 100	53, 60, 79, 88	0
55	M5	64/65 (98%)	0.06	1 (1%) 70 49	75, 86, 103, 126	0
55	Q8	64/65 (98%)	-0.12	0 100 100	64, 74, 92, 108	0
All	All	20598/21957 (93%)	-0.35	283 (1%) 73 53	48, 105, 159, 199	0

All (283) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
41	75	104	ASN	6.6
43	D8	37	VAL	6.0
41	75	106	SER	6.0
22	1K	76	A	5.9
38	45	90	VAL	5.6
46	C5	53	PRO	5.0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
46	C5	29	GLU	5.0
12	3A	27	LEU	4.8
38	45	91	GLU	4.7
41	75	1	MET	4.6
12	3A	21	LYS	4.5
19	AI	84	GLY	4.4
22	1L	76	A	4.4
2	12	102	LEU	4.3
3	22	39	ILE	4.3
12	3A	19	ARG	4.2
22	1K	73	A	4.1
34	69	20	ASP	4.0
12	3A	28	LYS	4.0
38	45	2	LEU	4.0
46	C5	49	VAL	3.9
46	G8	106	LEU	3.9
22	1K	74	C	3.8
38	45	93	TYR	3.8
34	69	18	VAL	3.8
22	1L	71	C	3.7
42	C8	116	ALA	3.7
29	11	247	ALA	3.7
26	1H	1106	G	3.7
33	59	142	GLY	3.7
12	3A	26	ALA	3.7
12	3A	64	TYR	3.6
13	4A	117	VAL	3.6
19	AA	44	MET	3.6
54	L5	47	ARG	3.6
26	14	2901	C	3.5
18	9A	84	LYS	3.5
8	7E	136	GLU	3.4
26	14	229	A	3.4
31	31	66	PRO	3.4
26	1H	882	G	3.3
18	9A	85	LEU	3.3
46	C5	43	ASN	3.3
22	1K	75	C	3.3
11	2A	89	ALA	3.3
26	14	530	G	3.3
35	15	46	VAL	3.3
12	3A	20	LYS	3.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
26	14	508	G	3.2
26	1H	893	C	3.2
33	59	165	ALA	3.2
7	6E	83	ALA	3.1
38	45	79	LEU	3.1
46	G8	98	VAL	3.1
38	45	102	VAL	3.0
46	C5	106	LEU	3.0
37	78	13	ASN	3.0
38	45	89	ASN	3.0
43	95	81	TYR	3.0
29	19	55	GLY	2.9
2	12	70	PHE	2.9
24	3K	70	C	2.9
41	75	105	LEU	2.9
10	1A	58	ASP	2.9
9	82	115	GLY	2.9
2	1E	208	ILE	2.9
5	42	131	ILE	2.9
14	5A	39	LEU	2.9
2	1E	74	LYS	2.9
24	3L	1	G	2.9
49	F5	77	ALA	2.9
34	69	3	VAL	2.9
27	1J	88	C	2.9
38	88	104	PHE	2.9
50	G5	41	ILE	2.9
42	85	25	TRP	2.9
12	3I	64	TYR	2.9
29	19	5	LYS	2.9
33	51	9	ILE	2.8
43	95	70	ILE	2.8
22	1K	44	U	2.8
46	C5	45	VAL	2.8
10	1A	91	PRO	2.8
29	19	181	GLU	2.8
9	82	50	LEU	2.8
12	3I	28	LYS	2.8
12	3A	62	SER	2.8
12	3A	68	ALA	2.8
26	14	2902	C	2.8
5	4E	55	VAL	2.8

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
31	31	62	ARG	2.7
41	75	50	ILE	2.7
26	14	880	G	2.7
38	45	7	MET	2.7
26	1H	790	C	2.7
46	G8	105	ALA	2.7
32	49	82	LEU	2.7
34	69	1	MET	2.7
43	D8	45	THR	2.7
4	32	83	SER	2.7
30	29	204	ALA	2.7
6	5E	56	PRO	2.6
29	11	262	ARG	2.6
22	1K	48	C	2.6
35	58	138	LEU	2.6
3	22	43	LEU	2.6
30	21	63	LEU	2.6
35	15	92	ALA	2.6
49	F5	22	GLY	2.6
49	F5	85	LEU	2.6
26	14	896	A	2.6
44	E8	92	ARG	2.6
31	31	70	THR	2.6
46	C5	63	LYS	2.6
26	1H	1678	G	2.6
32	41	23	PHE	2.6
46	C5	56	PRO	2.6
25	4K	25	A	2.6
12	3A	87	GLY	2.6
38	45	10	ARG	2.6
46	C5	104	GLY	2.5
6	52	83	ASP	2.5
46	C5	105	ALA	2.5
35	58	1	MET	2.5
1	13	345	C	2.5
24	3K	34	U	2.5
37	35	19	VAL	2.5
37	35	110	TYR	2.5
6	5E	46	ARG	2.5
34	69	2	LYS	2.5
38	45	92	GLY	2.5
45	B5	68	ARG	2.5

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
34	69	12	LEU	2.5
41	B8	6	LEU	2.5
26	1H	1053	C	2.5
28	71	208	PHE	2.5
18	9I	85	LEU	2.5
48	I8	9	SER	2.4
26	1H	2476	A	2.4
8	7E	91	ARG	2.4
22	1K	72	C	2.4
14	5A	37	PHE	2.4
29	19	262	ARG	2.4
45	B5	66	LEU	2.4
7	62	148	ASN	2.4
12	3A	61	THR	2.4
20	BI	9	ASN	2.4
4	32	178	VAL	2.4
34	69	21	VAL	2.4
46	C5	59	GLY	2.4
35	58	92	ALA	2.4
26	1H	895	U	2.4
14	5A	38	GLY	2.4
32	49	177	GLY	2.4
43	95	91	TYR	2.4
26	14	2900	A	2.4
54	L5	1	MET	2.4
37	35	52	GLU	2.4
34	69	80	PRO	2.4
43	95	45	THR	2.4
38	88	140	ALA	2.4
45	B5	69	TYR	2.4
18	9A	46	GLU	2.4
49	F5	86	SER	2.4
31	31	64	ILE	2.3
46	C5	50	ARG	2.3
46	G8	89	PHE	2.3
22	1K	9	A	2.3
31	39	65	TRP	2.3
49	F5	79	GLY	2.3
43	D8	70	ILE	2.3
47	D5	171	ILE	2.3
3	22	34	LEU	2.3
41	75	101	PHE	2.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
38	45	6	ARG	2.3
41	B8	3	ARG	2.3
20	BI	12	ALA	2.3
4	3E	110	PHE	2.3
19	AA	60	VAL	2.3
30	29	116	VAL	2.3
36	68	52	VAL	2.3
37	35	75	ILE	2.3
18	9I	20	ALA	2.3
33	51	16	SER	2.3
37	35	58	THR	2.3
38	45	83	MET	2.3
22	1K	1	G	2.3
36	68	5	GLN	2.3
43	D8	36	PRO	2.3
12	3A	29	GLY	2.3
1	1G	701	C	2.3
17	8I	29	HIS	2.3
37	78	16	ARG	2.3
2	1E	81	VAL	2.3
33	51	17	VAL	2.3
38	88	91	GLU	2.2
44	E8	96	ILE	2.2
46	C5	44	ILE	2.2
7	62	89	MET	2.2
3	22	101	LEU	2.2
24	3L	12	U	2.2
33	51	7	LEU	2.2
46	C5	54	LYS	2.2
1	1G	241	C	2.2
1	1G	680	C	2.2
22	1K	71	C	2.2
34	69	85	GLU	2.2
19	AA	62	ILE	2.2
29	11	105	ILE	2.2
29	19	31	LYS	2.2
5	4E	18	ARG	2.2
43	95	80	GLN	2.2
26	1H	1660	C	2.2
34	61	111	PRO	2.2
47	D5	163	LEU	2.2
29	19	275	LYS	2.2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
37	35	50	ARG	2.2
41	75	103	ARG	2.2
25	4K	7	G	2.2
4	32	194	LEU	2.2
26	14	878	A	2.2
6	5E	55	ASP	2.2
35	58	93	THR	2.2
41	B8	10	VAL	2.2
47	H8	165	VAL	2.2
46	C5	52	SER	2.2
42	C8	95	LEU	2.2
4	32	49	ARG	2.2
55	M5	34	TRP	2.2
5	42	109	ILE	2.1
5	4E	68	GLU	2.1
12	3I	29	GLY	2.1
31	39	72	ARG	2.1
46	G8	97	ARG	2.1
36	68	56	ASP	2.1
12	3I	18	VAL	2.1
29	19	33	LEU	2.1
48	E5	7	LEU	2.1
11	2A	92	GLU	2.1
33	51	86	GLU	2.1
26	1H	737	C	2.1
7	62	87	VAL	2.1
11	2I	25	TYR	2.1
13	4I	2	ALA	2.1
29	19	166	GLN	2.1
1	13	965	A	2.1
16	7I	66	PRO	2.1
24	3K	1	G	2.1
25	4K	6	G	2.1
12	3A	23	LYS	2.1
49	F5	80	LEU	2.1
13	4I	118	ALA	2.1
28	79	198	ALA	2.1
1	1G	884	U	2.1
33	59	52	VAL	2.1
10	1A	85	LEU	2.1
29	19	273	ARG	2.1
32	41	82	LEU	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
29	11	233	HIS	2.1
46	G8	83	THR	2.1
22	1L	72	C	2.1
24	3K	5	C	2.1
24	3K	11	C	2.1
24	3K	13	C	2.1
4	32	110	PHE	2.1
33	51	172	LYS	2.0
36	68	53	LYS	2.0
46	G8	94	LYS	2.0
7	62	6	ARG	2.0
43	D8	39	LEU	2.0
45	F8	95	LEU	2.0
38	45	103	MET	2.0
17	8A	7	THR	2.0
35	15	132	ALA	2.0
19	AA	58	VAL	2.0
4	32	209	ARG	2.0
10	1I	23	ILE	2.0
32	49	151	ALA	2.0
25	4K	23	A	2.0
6	5E	47	ARG	2.0
40	65	20	ARG	2.0
33	59	162	ILE	2.0
22	1L	74	C	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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	B-factors(Å ²)	Q<0.9
22	PSU	1K	55	20/21	0.84	0.09	102,113,120,131	0
23	OMC	2L	33	21/22	0.84	0.10	105,114,118,121	0
23	G7M	2L	47	24/25	0.86	0.10	126,133,141,145	0
23	5MU	2L	55	21/22	0.86	0.08	119,131,141,145	0
23	PSU	2K	56	20/21	0.86	0.08	99,110,121,122	0
23	PSU	2L	56	20/21	0.86	0.07	115,126,131,135	0
23	4SU	2L	8	20/21	0.88	0.08	114,124,129,130	0
24	PSU	3K	39	20/21	0.88	0.09	141,151,156,159	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
24	PSU	3L	39	20/21	0.88	0.08	145,155,159,162	0
22	PSU	1L	55	20/21	0.89	0.06	129,139,149,150	0
22	U8U	1L	34	23/24	0.89	0.09	123,133,138,150	0
22	PSU	1L	39	20/21	0.90	0.08	135,144,149,150	0
22	5MU	1K	54	21/22	0.90	0.08	110,117,132,137	0
23	5MU	2K	55	21/22	0.90	0.09	106,117,125,127	0
22	5MU	1L	54	21/22	0.91	0.07	133,141,146,152	0
22	T6A	1L	37	32/33	0.92	0.10	132,140,153,154	0
23	G7M	2K	47	24/25	0.93	0.08	102,114,127,133	0
22	PSU	1K	39	20/21	0.93	0.10	98,115,125,127	0
22	U8U	1K	34	23/24	0.94	0.08	84,92,100,108	0
22	T6A	1K	37	32/33	0.95	0.11	79,94,121,123	0
23	OMC	2K	33	21/22	0.96	0.11	77,83,91,93	0
23	4SU	2K	8	20/21	0.96	0.07	91,98,107,109	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1K	101	1/1	0.19	0.40	138,138,138,138	0
56	MG	2K	102	1/1	0.20	0.35	126,126,126,126	0
56	MG	1G	1656	1/1	0.51	0.23	138,138,138,138	0
56	MG	1J	203	1/1	0.52	0.26	113,113,113,113	0
56	MG	14	3250	1/1	0.55	0.30	99,99,99,99	0
56	MG	14	3055	1/1	0.55	0.33	112,112,112,112	0
56	MG	1G	1616	1/1	0.56	0.36	96,96,96,96	0
56	MG	14	3302	1/1	0.57	0.36	110,110,110,110	0
56	MG	1G	1640	1/1	0.57	0.28	108,108,108,108	0
56	MG	14	3130	1/1	0.58	0.34	78,78,78,78	0
56	MG	16	204	1/1	0.58	0.25	98,98,98,98	0
56	MG	14	3288	1/1	0.58	0.27	109,109,109,109	0
56	MG	1G	1602	1/1	0.58	0.36	105,105,105,105	0
56	MG	1H	3284	1/1	0.58	0.28	88,88,88,88	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3220	1/1	0.59	0.28	107,107,107,107	0
56	MG	13	1681	1/1	0.59	0.28	106,106,106,106	0
56	MG	14	3287	1/1	0.59	0.41	105,105,105,105	0
56	MG	14	3229	1/1	0.60	0.28	86,86,86,86	0
56	MG	14	3181	1/1	0.60	0.36	98,98,98,98	0
56	MG	1H	3045	1/1	0.60	0.29	116,116,116,116	0
56	MG	1H	3277	1/1	0.61	0.27	100,100,100,100	0
56	MG	1J	202	1/1	0.61	0.25	104,104,104,104	0
56	MG	14	3266	1/1	0.61	0.30	90,90,90,90	0
56	MG	13	1700	1/1	0.62	0.26	111,111,111,111	0
56	MG	14	3142	1/1	0.62	0.18	111,111,111,111	0
56	MG	1H	3280	1/1	0.62	0.23	88,88,88,88	0
56	MG	1G	1664	1/1	0.62	0.27	119,119,119,119	0
56	MG	2L	102	1/1	0.62	0.28	98,98,98,98	0
56	MG	13	1608	1/1	0.62	0.28	91,91,91,91	0
56	MG	1H	3295	1/1	0.63	0.23	85,85,85,85	0
56	MG	14	3039	1/1	0.63	0.43	103,103,103,103	0
56	MG	13	1628	1/1	0.63	0.33	95,95,95,95	0
56	MG	1G	1630	1/1	0.63	0.35	108,108,108,108	0
56	MG	1G	1665	1/1	0.63	0.24	93,93,93,93	0
56	MG	13	1691	1/1	0.64	0.20	109,109,109,109	0
56	MG	14	3301	1/1	0.64	0.27	99,99,99,99	0
56	MG	14	3260	1/1	0.64	0.31	90,90,90,90	0
56	MG	1G	1629	1/1	0.64	0.29	104,104,104,104	0
56	MG	14	3172	1/1	0.64	0.24	98,98,98,98	0
56	MG	14	3280	1/1	0.65	0.37	99,99,99,99	0
56	MG	14	3110	1/1	0.65	0.30	88,88,88,88	0
56	MG	13	1702	1/1	0.65	0.45	103,103,103,103	0
56	MG	13	1692	1/1	0.65	0.28	100,100,100,100	0
56	MG	14	3255	1/1	0.65	0.33	87,87,87,87	0
56	MG	14	3303	1/1	0.65	0.35	98,98,98,98	0
56	MG	1H	3318	1/1	0.65	0.24	96,96,96,96	0
56	MG	1H	3326	1/1	0.65	0.20	91,91,91,91	0
56	MG	14	3274	1/1	0.66	0.25	99,99,99,99	0
56	MG	13	1646	1/1	0.66	0.37	95,95,95,95	0
56	MG	1H	3015	1/1	0.66	0.38	77,77,77,77	0
56	MG	1H	3319	1/1	0.66	0.26	102,102,102,102	0
56	MG	14	3299	1/1	0.66	0.23	96,96,96,96	0
56	MG	13	1679	1/1	0.67	0.22	107,107,107,107	0
56	MG	13	1671	1/1	0.67	0.22	102,102,102,102	0
56	MG	4K	101	1/1	0.67	0.25	156,156,156,156	0
56	MG	1H	3308	1/1	0.68	0.40	99,99,99,99	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3381	1/1	0.68	0.20	102,102,102,102	0
56	MG	1G	1660	1/1	0.68	0.32	97,97,97,97	0
56	MG	14	3298	1/1	0.68	0.33	94,94,94,94	0
56	MG	1H	3184	1/1	0.69	0.29	96,96,96,96	0
56	MG	14	3017	1/1	0.69	0.27	92,92,92,92	0
56	MG	13	1606	1/1	0.69	0.24	115,115,115,115	0
56	MG	1G	1662	1/1	0.69	0.21	133,133,133,133	0
56	MG	1G	1633	1/1	0.69	0.25	83,83,83,83	0
56	MG	1H	3123	1/1	0.69	0.33	77,77,77,77	0
56	MG	14	3139	1/1	0.69	0.23	93,93,93,93	0
56	MG	45	202	1/1	0.69	0.26	103,103,103,103	0
56	MG	1H	3169	1/1	0.70	0.18	95,95,95,95	0
56	MG	13	1648	1/1	0.70	0.33	82,82,82,82	0
56	MG	1H	3321	1/1	0.70	0.26	85,85,85,85	0
56	MG	1H	3189	1/1	0.70	0.25	84,84,84,84	0
56	MG	1G	1638	1/1	0.70	0.36	81,81,81,81	0
56	MG	1H	3260	1/1	0.70	0.34	88,88,88,88	0
56	MG	16	208	1/1	0.70	0.22	82,82,82,82	0
56	MG	1H	3274	1/1	0.70	0.28	85,85,85,85	0
56	MG	C5	201	1/1	0.70	0.22	109,109,109,109	0
56	MG	14	3264	1/1	0.71	0.20	92,92,92,92	0
56	MG	1G	1641	1/1	0.71	0.22	92,92,92,92	0
56	MG	14	3210	1/1	0.71	0.24	96,96,96,96	0
56	MG	1H	3297	1/1	0.71	0.19	101,101,101,101	0
56	MG	1H	3306	1/1	0.71	0.23	84,84,84,84	0
56	MG	13	1622	1/1	0.71	0.20	94,94,94,94	0
56	MG	14	3169	1/1	0.71	0.20	104,104,104,104	0
56	MG	13	1664	1/1	0.71	0.27	99,99,99,99	0
56	MG	14	3227	1/1	0.72	0.22	81,81,81,81	0
56	MG	1H	3263	1/1	0.72	0.34	94,94,94,94	0
56	MG	1H	3281	1/1	0.72	0.22	81,81,81,81	0
56	MG	1H	3223	1/1	0.72	0.27	88,88,88,88	0
56	MG	1H	3311	1/1	0.72	0.24	96,96,96,96	0
56	MG	14	3133	1/1	0.72	0.28	97,97,97,97	0
56	MG	13	1623	1/1	0.72	0.26	105,105,105,105	0
56	MG	1G	1603	1/1	0.73	0.20	101,101,101,101	0
56	MG	13	1678	1/1	0.73	0.23	83,83,83,83	0
56	MG	14	3164	1/1	0.73	0.25	83,83,83,83	0
56	MG	13	1689	1/1	0.73	0.29	92,92,92,92	0
56	MG	1H	3293	1/1	0.73	0.23	98,98,98,98	0
56	MG	14	3012	1/1	0.73	0.30	82,82,82,82	0
56	MG	14	3193	1/1	0.73	0.27	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3270	1/1	0.73	0.31	70,70,70,70	0
56	MG	1H	3323	1/1	0.73	0.28	91,91,91,91	0
56	MG	1H	3209	1/1	0.73	0.20	82,82,82,82	0
56	MG	1H	3302	1/1	0.73	0.28	89,89,89,89	0
56	MG	14	3248	1/1	0.73	0.35	94,94,94,94	0
56	MG	14	3122	1/1	0.73	0.33	91,91,91,91	0
56	MG	14	3251	1/1	0.73	0.21	106,106,106,106	0
56	MG	1H	3032	1/1	0.73	0.20	80,80,80,80	0
56	MG	1H	3234	1/1	0.73	0.18	99,99,99,99	0
56	MG	13	1629	1/1	0.74	0.33	90,90,90,90	0
56	MG	14	3183	1/1	0.74	0.32	89,89,89,89	0
56	MG	14	3056	1/1	0.74	0.09	62,62,62,62	0
56	MG	13	1676	1/1	0.74	0.14	127,127,127,127	0
56	MG	13	1696	1/1	0.74	0.26	111,111,111,111	0
56	MG	14	3127	1/1	0.74	0.23	71,71,71,71	0
56	MG	1H	3047	1/1	0.74	0.25	92,92,92,92	0
56	MG	14	3232	1/1	0.74	0.23	127,127,127,127	0
56	MG	14	3239	1/1	0.74	0.24	79,79,79,79	0
56	MG	1H	3298	1/1	0.74	0.29	93,93,93,93	0
56	MG	1H	3300	1/1	0.74	0.22	77,77,77,77	0
56	MG	1H	3301	1/1	0.74	0.21	128,128,128,128	0
56	MG	3K	101	1/1	0.74	0.17	162,162,162,162	0
56	MG	14	3037	1/1	0.74	0.24	70,70,70,70	0
56	MG	13	1604	1/1	0.74	0.30	93,93,93,93	0
56	MG	14	3069	1/1	0.75	0.34	91,91,91,91	0
56	MG	1G	1667	1/1	0.75	0.25	100,100,100,100	0
56	MG	1H	3134	1/1	0.75	0.25	90,90,90,90	0
56	MG	1H	3141	1/1	0.75	0.24	69,69,69,69	0
56	MG	1G	1658	1/1	0.75	0.23	124,124,124,124	0
56	MG	13	1685	1/1	0.75	0.40	95,95,95,95	0
56	MG	13	1647	1/1	0.75	0.24	95,95,95,95	0
56	MG	1H	3128	1/1	0.75	0.25	83,83,83,83	0
56	MG	14	3154	1/1	0.75	0.23	90,90,90,90	0
56	MG	45	201	1/1	0.75	0.21	96,96,96,96	0
56	MG	1G	1612	1/1	0.75	0.24	93,93,93,93	0
56	MG	14	3235	1/1	0.75	0.25	104,104,104,104	0
56	MG	1H	3183	1/1	0.76	0.27	90,90,90,90	0
56	MG	14	3061	1/1	0.76	0.22	97,97,97,97	0
56	MG	88	202	1/1	0.76	0.23	87,87,87,87	0
56	MG	14	3167	1/1	0.76	0.24	99,99,99,99	0
56	MG	1H	3212	1/1	0.76	0.28	89,89,89,89	0
56	MG	14	3119	1/1	0.76	0.27	86,86,86,86	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3022	1/1	0.76	0.33	83,83,83,83	0
56	MG	14	3031	1/1	0.76	0.27	76,76,76,76	0
56	MG	14	3191	1/1	0.76	0.18	76,76,76,76	0
56	MG	1G	1643	1/1	0.76	0.30	91,91,91,91	0
56	MG	1G	1651	1/1	0.76	0.37	93,93,93,93	0
56	MG	1G	1634	1/1	0.76	0.29	109,109,109,109	0
56	MG	14	3140	1/1	0.76	0.26	87,87,87,87	0
56	MG	14	3168	1/1	0.77	0.28	66,66,66,66	0
56	MG	14	3135	1/1	0.77	0.20	78,78,78,78	0
56	MG	1H	3317	1/1	0.77	0.31	105,105,105,105	0
56	MG	13	1655	1/1	0.77	0.24	103,103,103,103	0
56	MG	1H	3200	1/1	0.77	0.27	87,87,87,87	0
56	MG	14	3308	1/1	0.77	0.24	82,82,82,82	0
56	MG	1H	3081	1/1	0.77	0.24	85,85,85,85	0
56	MG	14	3277	1/1	0.77	0.32	92,92,92,92	0
56	MG	14	3243	1/1	0.77	0.17	89,89,89,89	0
56	MG	14	3286	1/1	0.77	0.23	83,83,83,83	0
56	MG	13	1660	1/1	0.77	0.30	81,81,81,81	0
56	MG	14	3101	1/1	0.77	0.27	91,91,91,91	0
56	MG	1H	3315	1/1	0.78	0.15	91,91,91,91	0
56	MG	14	3240	1/1	0.78	0.31	87,87,87,87	0
56	MG	14	3272	1/1	0.78	0.29	93,93,93,93	0
56	MG	14	3273	1/1	0.78	0.26	94,94,94,94	0
56	MG	1G	1668	1/1	0.78	0.24	106,106,106,106	0
56	MG	14	3310	1/1	0.78	0.18	120,120,120,120	0
56	MG	1G	1646	1/1	0.78	0.33	86,86,86,86	0
56	MG	1H	3194	1/1	0.78	0.17	73,73,73,73	0
56	MG	1H	3307	1/1	0.78	0.21	82,82,82,82	0
56	MG	14	3252	1/1	0.78	0.19	73,73,73,73	0
56	MG	1G	1657	1/1	0.78	0.23	90,90,90,90	0
56	MG	14	3064	1/1	0.78	0.23	84,84,84,84	0
56	MG	14	3159	1/1	0.79	0.30	81,81,81,81	0
56	MG	14	3300	1/1	0.79	0.31	89,89,89,89	0
56	MG	13	1633	1/1	0.79	0.15	65,65,65,65	0
56	MG	1H	3013	1/1	0.79	0.34	89,89,89,89	0
56	MG	1H	3291	1/1	0.79	0.41	99,99,99,99	0
56	MG	14	3060	1/1	0.79	0.29	92,92,92,92	0
56	MG	14	3020	1/1	0.79	0.27	76,76,76,76	0
56	MG	14	3062	1/1	0.79	0.23	81,81,81,81	0
56	MG	78	201	1/1	0.79	0.34	75,75,75,75	0
56	MG	1G	1620	1/1	0.79	0.10	94,94,94,94	0
56	MG	14	3032	1/1	0.79	0.36	88,88,88,88	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3146	1/1	0.79	0.23	61,61,61,61	0
56	MG	1H	3052	1/1	0.79	0.54	99,99,99,99	0
56	MG	1H	3224	1/1	0.80	0.34	88,88,88,88	0
56	MG	1H	3227	1/1	0.80	0.15	50,50,50,50	0
56	MG	13	1699	1/1	0.80	0.23	81,81,81,81	0
56	MG	1H	3244	1/1	0.80	0.26	84,84,84,84	0
56	MG	1H	3044	1/1	0.80	0.40	89,89,89,89	0
56	MG	14	3259	1/1	0.80	0.24	84,84,84,84	0
56	MG	14	3221	1/1	0.80	0.15	91,91,91,91	0
56	MG	1H	3094	1/1	0.80	0.17	91,91,91,91	0
56	MG	14	3305	1/1	0.80	0.20	86,86,86,86	0
56	MG	13	1654	1/1	0.80	0.28	88,88,88,88	0
56	MG	13	1688	1/1	0.80	0.27	94,94,94,94	0
56	MG	1H	3219	1/1	0.80	0.32	89,89,89,89	0
56	MG	1H	3186	1/1	0.80	0.14	71,71,71,71	0
56	MG	14	3276	1/1	0.80	0.19	102,102,102,102	0
56	MG	39	301	1/1	0.80	0.16	80,80,80,80	0
56	MG	14	3180	1/1	0.80	0.22	79,79,79,79	0
56	MG	1G	1622	1/1	0.80	0.36	99,99,99,99	0
56	MG	14	3244	1/1	0.80	0.16	74,74,74,74	0
56	MG	1H	3097	1/1	0.81	0.17	103,103,103,103	0
56	MG	14	3131	1/1	0.81	0.28	76,76,76,76	0
56	MG	1H	3110	1/1	0.81	0.19	65,65,65,65	0
56	MG	14	3023	1/1	0.81	0.22	55,55,55,55	0
56	MG	13	1684	1/1	0.81	0.14	114,114,114,114	0
56	MG	1G	1644	1/1	0.81	0.26	86,86,86,86	0
56	MG	14	3290	1/1	0.81	0.25	90,90,90,90	0
56	MG	14	3295	1/1	0.81	0.23	114,114,114,114	0
56	MG	1H	3187	1/1	0.81	0.20	95,95,95,95	0
56	MG	1H	3254	1/1	0.81	0.35	95,95,95,95	0
56	MG	1H	3257	1/1	0.81	0.31	94,94,94,94	0
56	MG	13	1672	1/1	0.81	0.15	81,81,81,81	0
56	MG	1G	1611	1/1	0.81	0.29	108,108,108,108	0
56	MG	1H	3192	1/1	0.81	0.18	81,81,81,81	0
56	MG	13	1674	1/1	0.81	0.32	92,92,92,92	0
56	MG	1H	3039	1/1	0.81	0.30	80,80,80,80	0
56	MG	14	3068	1/1	0.81	0.12	89,89,89,89	0
56	MG	1H	3152	1/1	0.81	0.28	99,99,99,99	0
56	MG	1H	3163	1/1	0.81	0.30	48,48,48,48	0
56	MG	1H	3216	1/1	0.81	0.29	80,80,80,80	0
56	MG	1H	3167	1/1	0.81	0.22	81,81,81,81	0
56	MG	1H	3220	1/1	0.81	0.25	87,87,87,87	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3203	1/1	0.81	0.17	68,68,68,68	0
56	MG	13	1695	1/1	0.81	0.32	103,103,103,103	0
56	MG	14	3058	1/1	0.82	0.19	80,80,80,80	0
56	MG	1H	3204	1/1	0.82	0.14	100,100,100,100	0
56	MG	1H	3322	1/1	0.82	0.20	68,68,68,68	0
56	MG	14	3281	1/1	0.82	0.40	89,89,89,89	0
56	MG	1G	1642	1/1	0.82	0.24	123,123,123,123	0
56	MG	14	3150	1/1	0.82	0.26	91,91,91,91	0
56	MG	14	3003	1/1	0.82	0.26	69,69,69,69	0
56	MG	14	3238	1/1	0.82	0.25	78,78,78,78	0
56	MG	14	3291	1/1	0.82	0.31	94,94,94,94	0
56	MG	1H	3264	1/1	0.82	0.13	84,84,84,84	0
56	MG	14	3296	1/1	0.82	0.37	91,91,91,91	0
56	MG	14	3297	1/1	0.82	0.18	124,124,124,124	0
56	MG	14	3162	1/1	0.82	0.28	83,83,83,83	0
56	MG	13	1602	1/1	0.82	0.21	89,89,89,89	0
56	MG	14	3075	1/1	0.82	0.51	90,90,90,90	0
56	MG	1H	3180	1/1	0.82	0.23	76,76,76,76	0
56	MG	1H	3314	1/1	0.82	0.18	92,92,92,92	0
56	MG	1H	3055	1/1	0.82	0.28	88,88,88,88	0
56	MG	14	3120	1/1	0.82	0.21	71,71,71,71	0
56	MG	14	3307	1/1	0.82	0.24	108,108,108,108	0
56	MG	1G	1632	1/1	0.82	0.28	102,102,102,102	0
56	MG	14	3258	1/1	0.82	0.29	99,99,99,99	0
56	MG	1H	3051	1/1	0.82	0.16	84,84,84,84	0
56	MG	14	3188	1/1	0.82	0.32	92,92,92,92	0
56	MG	1H	3199	1/1	0.82	0.26	74,74,74,74	0
56	MG	1G	1636	1/1	0.82	0.20	101,101,101,101	0
56	MG	14	3197	1/1	0.82	0.33	84,84,84,84	0
56	MG	1G	1637	1/1	0.82	0.27	97,97,97,97	0
56	MG	1H	3140	1/1	0.82	0.13	69,69,69,69	0
56	MG	1H	3276	1/1	0.83	0.23	85,85,85,85	0
56	MG	1H	3065	1/1	0.83	0.27	55,55,55,55	0
56	MG	1H	3217	1/1	0.83	0.23	67,67,67,67	0
56	MG	1H	3040	1/1	0.83	0.36	72,72,72,72	0
56	MG	14	3234	1/1	0.83	0.26	89,89,89,89	0
56	MG	13	1632	1/1	0.83	0.28	73,73,73,73	0
56	MG	13	1677	1/1	0.83	0.23	91,91,91,91	0
56	MG	1H	3104	1/1	0.83	0.22	71,71,71,71	0
56	MG	1H	3025	1/1	0.83	0.17	77,77,77,77	0
56	MG	1H	3048	1/1	0.83	0.20	92,92,92,92	0
56	MG	14	3070	1/1	0.83	0.18	71,71,71,71	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3327	1/1	0.83	0.24	95,95,95,95	0
56	MG	16	202	1/1	0.83	0.23	86,86,86,86	0
56	MG	1H	3125	1/1	0.83	0.14	87,87,87,87	0
56	MG	14	3176	1/1	0.83	0.26	88,88,88,88	0
56	MG	14	3114	1/1	0.83	0.28	81,81,81,81	0
56	MG	1H	3050	1/1	0.83	0.26	78,78,78,78	0
56	MG	13	1620	1/1	0.83	0.15	82,82,82,82	0
56	MG	1H	3138	1/1	0.83	0.29	61,61,61,61	0
56	MG	14	3030	1/1	0.83	0.32	87,87,87,87	0
56	MG	1H	3035	1/1	0.83	0.13	76,76,76,76	0
56	MG	1H	3053	1/1	0.83	0.29	82,82,82,82	0
56	MG	14	3132	1/1	0.83	0.31	91,91,91,91	0
56	MG	13	1626	1/1	0.83	0.29	87,87,87,87	0
56	MG	35	201	1/1	0.83	0.23	76,76,76,76	0
56	MG	14	3214	1/1	0.83	0.35	87,87,87,87	0
56	MG	1H	3061	1/1	0.83	0.27	62,62,62,62	0
56	MG	14	3278	1/1	0.83	0.24	96,96,96,96	0
56	MG	1G	1652	1/1	0.84	0.26	88,88,88,88	0
56	MG	1G	1654	1/1	0.84	0.35	86,86,86,86	0
56	MG	1H	3010	1/1	0.84	0.33	57,57,57,57	0
56	MG	Q8	101	1/1	0.84	0.25	83,83,83,83	0
56	MG	13	1661	1/1	0.84	0.10	93,93,93,93	0
56	MG	1H	3305	1/1	0.84	0.25	68,68,68,68	0
56	MG	14	3071	1/1	0.84	0.19	84,84,84,84	0
56	MG	1G	1604	1/1	0.84	0.23	97,97,97,97	0
56	MG	14	3083	1/1	0.84	0.26	87,87,87,87	0
56	MG	1H	3158	1/1	0.84	0.24	68,68,68,68	0
56	MG	1H	3261	1/1	0.84	0.13	90,90,90,90	0
56	MG	14	3113	1/1	0.84	0.18	78,78,78,78	0
56	MG	1H	3159	1/1	0.84	0.27	83,83,83,83	0
56	MG	14	3115	1/1	0.84	0.26	66,66,66,66	0
56	MG	1H	3162	1/1	0.84	0.28	87,87,87,87	0
56	MG	1H	3265	1/1	0.84	0.15	74,74,74,74	0
56	MG	13	1642	1/1	0.84	0.19	73,73,73,73	0
56	MG	14	3126	1/1	0.84	0.36	83,83,83,83	0
56	MG	14	3004	1/1	0.84	0.24	83,83,83,83	0
56	MG	1H	3101	1/1	0.84	0.17	64,64,64,64	0
56	MG	1H	3019	1/1	0.84	0.35	89,89,89,89	0
56	MG	13	1643	1/1	0.84	0.20	79,79,79,79	0
56	MG	13	1645	1/1	0.84	0.19	66,66,66,66	0
56	MG	1H	3221	1/1	0.84	0.28	78,78,78,78	0
56	MG	13	1686	1/1	0.84	0.35	73,73,73,73	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3036	1/1	0.84	0.23	77,77,77,77	0
56	MG	13	1687	1/1	0.84	0.23	76,76,76,76	0
56	MG	14	3245	1/1	0.84	0.17	88,88,88,88	0
56	MG	14	3246	1/1	0.84	0.17	72,72,72,72	0
56	MG	14	3143	1/1	0.84	0.34	70,70,70,70	0
56	MG	13	1697	1/1	0.84	0.24	96,96,96,96	0
56	MG	16	203	1/1	0.84	0.17	91,91,91,91	0
56	MG	1H	3239	1/1	0.84	0.11	81,81,81,81	0
56	MG	16	207	1/1	0.84	0.23	76,76,76,76	0
56	MG	14	3256	1/1	0.84	0.22	76,76,76,76	0
56	MG	1H	3041	1/1	0.84	0.28	77,77,77,77	0
56	MG	1H	3246	1/1	0.84	0.28	88,88,88,88	0
56	MG	13	1656	1/1	0.85	0.23	88,88,88,88	0
56	MG	1G	1663	1/1	0.85	0.18	97,97,97,97	0
56	MG	13	1693	1/1	0.85	0.43	88,88,88,88	0
56	MG	14	3261	1/1	0.85	0.34	83,83,83,83	0
56	MG	1H	3132	1/1	0.85	0.30	78,78,78,78	0
56	MG	14	3086	1/1	0.85	0.35	82,82,82,82	0
56	MG	14	3271	1/1	0.85	0.17	74,74,74,74	0
56	MG	14	3096	1/1	0.85	0.23	60,60,60,60	0
56	MG	3E	301	1/1	0.85	0.33	94,94,94,94	0
56	MG	1H	3137	1/1	0.85	0.16	73,73,73,73	0
56	MG	2L	101	1/1	0.85	0.26	72,72,72,72	0
56	MG	1G	1631	1/1	0.85	0.23	91,91,91,91	0
56	MG	1H	3072	1/1	0.85	0.20	72,72,72,72	0
56	MG	14	3199	1/1	0.85	0.23	59,59,59,59	0
56	MG	14	3201	1/1	0.85	0.19	60,60,60,60	0
56	MG	5E	201	1/1	0.85	0.22	84,84,84,84	0
56	MG	1H	3236	1/1	0.85	0.35	91,91,91,91	0
56	MG	1G	1635	1/1	0.85	0.18	93,93,93,93	0
56	MG	1H	3093	1/1	0.85	0.18	72,72,72,72	0
56	MG	1H	3198	1/1	0.85	0.20	67,67,67,67	0
56	MG	14	3128	1/1	0.85	0.23	73,73,73,73	0
56	MG	13	1605	1/1	0.85	0.23	75,75,75,75	0
56	MG	14	3230	1/1	0.85	0.19	72,72,72,72	0
56	MG	14	3024	1/1	0.85	0.25	74,74,74,74	0
56	MG	14	3233	1/1	0.85	0.39	80,80,80,80	0
56	MG	1H	3248	1/1	0.85	0.21	83,83,83,83	0
56	MG	1H	3299	1/1	0.85	0.34	86,86,86,86	0
56	MG	1H	3250	1/1	0.85	0.24	87,87,87,87	0
56	MG	13	1673	1/1	0.85	0.20	102,102,102,102	0
56	MG	14	3304	1/1	0.85	0.23	90,90,90,90	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	13	1690	1/1	0.85	0.38	81,81,81,81	0
56	MG	14	3242	1/1	0.85	0.10	70,70,70,70	0
56	MG	1H	3258	1/1	0.85	0.11	72,72,72,72	0
56	MG	1G	1649	1/1	0.85	0.27	96,96,96,96	0
56	MG	1H	3206	1/1	0.85	0.29	94,94,94,94	0
56	MG	13	1669	1/1	0.85	0.23	72,72,72,72	0
56	MG	1H	3038	1/1	0.85	0.22	81,81,81,81	0
56	MG	14	3157	1/1	0.85	0.32	66,66,66,66	0
56	MG	1G	1610	1/1	0.85	0.16	102,102,102,102	0
56	MG	1H	3114	1/1	0.85	0.16	67,67,67,67	0
56	MG	1H	3007	1/1	0.85	0.27	80,80,80,80	0
56	MG	1G	1614	1/1	0.85	0.25	93,93,93,93	0
56	MG	14	3033	1/1	0.86	0.29	84,84,84,84	0
56	MG	1H	3088	1/1	0.86	0.13	54,54,54,54	0
56	MG	14	3206	1/1	0.86	0.22	82,82,82,82	0
56	MG	13	1636	1/1	0.86	0.36	85,85,85,85	0
56	MG	14	3212	1/1	0.86	0.29	69,69,69,69	0
56	MG	14	3053	1/1	0.86	0.30	61,61,61,61	0
56	MG	14	3217	1/1	0.86	0.15	87,87,87,87	0
56	MG	13	1644	1/1	0.86	0.22	84,84,84,84	0
56	MG	1G	1626	1/1	0.86	0.15	95,95,95,95	0
56	MG	14	3222	1/1	0.86	0.24	80,80,80,80	0
56	MG	13	1667	1/1	0.86	0.18	85,85,85,85	0
56	MG	1H	3099	1/1	0.86	0.24	75,75,75,75	0
56	MG	1H	3262	1/1	0.86	0.30	77,77,77,77	0
56	MG	14	3231	1/1	0.86	0.22	84,84,84,84	0
56	MG	13	1694	1/1	0.86	0.18	96,96,96,96	0
56	MG	14	3294	1/1	0.86	0.22	74,74,74,74	0
56	MG	1H	3028	1/1	0.86	0.32	72,72,72,72	0
56	MG	14	3149	1/1	0.86	0.32	92,92,92,92	0
56	MG	1H	3108	1/1	0.86	0.18	62,62,62,62	0
56	MG	1H	3042	1/1	0.86	0.28	93,93,93,93	0
56	MG	13	1652	1/1	0.86	0.22	74,74,74,74	0
56	MG	1H	3275	1/1	0.86	0.29	74,74,74,74	0
56	MG	14	3002	1/1	0.86	0.21	62,62,62,62	0
56	MG	14	3079	1/1	0.86	0.23	72,72,72,72	0
56	MG	14	3165	1/1	0.86	0.20	60,60,60,60	0
56	MG	I8	103	1/1	0.86	0.23	86,86,86,86	0
56	MG	1H	3309	1/1	0.86	0.21	79,79,79,79	0
56	MG	14	3306	1/1	0.86	0.19	110,110,110,110	0
56	MG	14	3007	1/1	0.86	0.29	63,63,63,63	0
56	MG	1H	3034	1/1	0.86	0.34	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3312	1/1	0.86	0.18	67,67,67,67	0
56	MG	14	3019	1/1	0.86	0.33	84,84,84,84	0
56	MG	1J	201	1/1	0.86	0.27	90,90,90,90	0
56	MG	1H	3164	1/1	0.86	0.17	73,73,73,73	0
56	MG	1H	3046	1/1	0.86	0.33	87,87,87,87	0
56	MG	13	1653	1/1	0.86	0.17	89,89,89,89	0
56	MG	1H	3249	1/1	0.86	0.31	86,86,86,86	0
56	MG	1H	3170	1/1	0.86	0.14	81,81,81,81	0
56	MG	1G	1615	1/1	0.86	0.18	119,119,119,119	0
56	MG	1G	1653	1/1	0.86	0.17	85,85,85,85	0
56	MG	1H	3290	1/1	0.87	0.16	80,80,80,80	0
56	MG	1H	3018	1/1	0.87	0.30	78,78,78,78	0
56	MG	14	3285	1/1	0.87	0.27	72,72,72,72	0
56	MG	14	3015	1/1	0.87	0.26	63,63,63,63	0
56	MG	13	1649	1/1	0.87	0.17	75,75,75,75	0
56	MG	1H	3269	1/1	0.87	0.28	97,97,97,97	0
56	MG	I8	102	1/1	0.87	0.38	83,83,83,83	0
56	MG	14	3192	1/1	0.87	0.18	80,80,80,80	0
56	MG	14	3293	1/1	0.87	0.10	99,99,99,99	0
56	MG	14	3134	1/1	0.87	0.15	74,74,74,74	0
56	MG	1H	3296	1/1	0.87	0.26	92,92,92,92	0
56	MG	1H	3033	1/1	0.87	0.15	68,68,68,68	0
56	MG	14	3249	1/1	0.87	0.23	78,78,78,78	0
56	MG	14	3076	1/1	0.87	0.27	89,89,89,89	0
56	MG	14	3202	1/1	0.87	0.17	79,79,79,79	0
56	MG	1H	3273	1/1	0.87	0.26	84,84,84,84	0
56	MG	14	3253	1/1	0.87	0.28	76,76,76,76	0
56	MG	1H	3084	1/1	0.87	0.17	82,82,82,82	0
56	MG	1H	3232	1/1	0.87	0.10	71,71,71,71	0
56	MG	1G	1609	1/1	0.87	0.23	94,94,94,94	0
56	MG	14	3097	1/1	0.87	0.19	74,74,74,74	0
56	MG	1H	3054	1/1	0.87	0.19	87,87,87,87	0
56	MG	14	3102	1/1	0.87	0.21	76,76,76,76	0
56	MG	14	3263	1/1	0.87	0.20	82,82,82,82	0
56	MG	14	3309	1/1	0.87	0.34	90,90,90,90	0
56	MG	1H	3089	1/1	0.87	0.21	74,74,74,74	0
56	MG	14	3265	1/1	0.87	0.27	89,89,89,89	0
56	MG	1H	3304	1/1	0.87	0.43	73,73,73,73	0
56	MG	14	3046	1/1	0.87	0.19	66,66,66,66	0
56	MG	1H	3043	1/1	0.87	0.28	87,87,87,87	0
56	MG	13	1675	1/1	0.87	0.14	124,124,124,124	0
56	MG	1H	3283	1/1	0.87	0.27	85,85,85,85	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1G	1618	1/1	0.87	0.20	101,101,101,101	0
56	MG	14	3170	1/1	0.87	0.36	81,81,81,81	0
56	MG	1H	3124	1/1	0.87	0.15	59,59,59,59	0
56	MG	13	1651	1/1	0.88	0.12	86,86,86,86	0
56	MG	14	3204	1/1	0.88	0.19	82,82,82,82	0
56	MG	5I	101	1/1	0.88	0.14	88,88,88,88	0
56	MG	1G	1647	1/1	0.88	0.19	102,102,102,102	0
56	MG	13	1698	1/1	0.88	0.28	81,81,81,81	0
56	MG	14	3213	1/1	0.88	0.16	89,89,89,89	0
56	MG	1G	1601	1/1	0.88	0.18	96,96,96,96	0
56	MG	1H	3118	1/1	0.88	0.16	61,61,61,61	0
56	MG	14	3050	1/1	0.88	0.21	73,73,73,73	0
56	MG	1H	3153	1/1	0.88	0.11	60,60,60,60	0
56	MG	1H	3225	1/1	0.88	0.32	74,74,74,74	0
56	MG	1H	3156	1/1	0.88	0.25	77,77,77,77	0
56	MG	1H	3230	1/1	0.88	0.20	73,73,73,73	0
56	MG	1H	3310	1/1	0.88	0.24	72,72,72,72	0
56	MG	1H	3191	1/1	0.88	0.15	90,90,90,90	0
56	MG	14	3289	1/1	0.88	0.17	91,91,91,91	0
56	MG	1G	1661	1/1	0.88	0.16	150,150,150,150	0
56	MG	1H	3157	1/1	0.88	0.35	83,83,83,83	0
56	MG	14	3292	1/1	0.88	0.19	86,86,86,86	0
56	MG	13	1611	1/1	0.88	0.15	61,61,61,61	0
56	MG	14	3156	1/1	0.88	0.14	62,62,62,62	0
56	MG	13	1663	1/1	0.88	0.16	75,75,75,75	0
56	MG	1H	3240	1/1	0.88	0.14	56,56,56,56	0
56	MG	1H	3241	1/1	0.88	0.29	73,73,73,73	0
56	MG	1H	3058	1/1	0.88	0.12	62,62,62,62	0
56	MG	13	1621	1/1	0.88	0.19	95,95,95,95	0
56	MG	1H	3287	1/1	0.88	0.36	86,86,86,86	0
56	MG	1H	3288	1/1	0.88	0.10	94,94,94,94	0
56	MG	1H	3005	1/1	0.88	0.16	62,62,62,62	0
56	MG	14	3247	1/1	0.88	0.29	73,73,73,73	0
56	MG	14	3087	1/1	0.88	0.30	79,79,79,79	0
56	MG	1H	3067	1/1	0.88	0.20	63,63,63,63	0
56	MG	16	201	1/1	0.88	0.16	92,92,92,92	0
56	MG	14	3009	1/1	0.88	0.23	52,52,52,52	0
56	MG	1H	3207	1/1	0.88	0.28	81,81,81,81	0
56	MG	1H	3251	1/1	0.88	0.15	63,63,63,63	0
56	MG	1H	3253	1/1	0.88	0.13	60,60,60,60	0
56	MG	16	205	1/1	0.88	0.26	84,84,84,84	0
56	MG	14	3257	1/1	0.88	0.11	68,68,68,68	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	16	206	1/1	0.88	0.13	84,84,84,84	0
56	MG	14	3117	1/1	0.88	0.34	77,77,77,77	0
56	MG	1H	3135	1/1	0.88	0.22	81,81,81,81	0
56	MG	13	1665	1/1	0.88	0.23	64,64,64,64	0
56	MG	14	3262	1/1	0.88	0.39	91,91,91,91	0
56	MG	1H	3172	1/1	0.88	0.18	82,82,82,82	0
56	MG	1H	3179	1/1	0.88	0.23	93,93,93,93	0
56	MG	E5	101	1/1	0.88	0.27	83,83,83,83	0
56	MG	14	3190	1/1	0.89	0.18	95,95,95,95	0
56	MG	14	3021	1/1	0.89	0.31	78,78,78,78	0
56	MG	1G	1606	1/1	0.89	0.21	82,82,82,82	0
56	MG	1H	3085	1/1	0.89	0.19	82,82,82,82	0
56	MG	13	1668	1/1	0.89	0.15	80,80,80,80	0
56	MG	14	3198	1/1	0.89	0.27	80,80,80,80	0
56	MG	14	3025	1/1	0.89	0.18	69,69,69,69	0
56	MG	14	3268	1/1	0.89	0.13	86,86,86,86	0
56	MG	1H	3012	1/1	0.89	0.21	79,79,79,79	0
56	MG	13	1612	1/1	0.89	0.19	79,79,79,79	0
56	MG	14	3123	1/1	0.89	0.15	82,82,82,82	0
56	MG	14	3125	1/1	0.89	0.22	54,54,54,54	0
56	MG	1H	3259	1/1	0.89	0.14	80,80,80,80	0
56	MG	1H	3014	1/1	0.89	0.39	69,69,69,69	0
56	MG	14	3211	1/1	0.89	0.27	74,74,74,74	0
56	MG	13	1683	1/1	0.89	0.26	91,91,91,91	0
56	MG	1H	3197	1/1	0.89	0.18	80,80,80,80	0
56	MG	14	3284	1/1	0.89	0.11	84,84,84,84	0
56	MG	1G	1619	1/1	0.89	0.12	89,89,89,89	0
56	MG	14	3215	1/1	0.89	0.20	83,83,83,83	0
56	MG	14	3047	1/1	0.89	0.15	57,57,57,57	0
56	MG	1H	3428	1/1	0.89	0.21	54,54,54,54	0
56	MG	14	3051	1/1	0.89	0.22	90,90,90,90	0
56	MG	1G	1621	1/1	0.89	0.26	61,61,61,61	0
56	MG	14	3224	1/1	0.89	0.26	75,75,75,75	0
56	MG	1H	3064	1/1	0.89	0.18	54,54,54,54	0
56	MG	1H	3017	1/1	0.89	0.31	77,77,77,77	0
56	MG	14	3141	1/1	0.89	0.14	90,90,90,90	0
56	MG	1G	1627	1/1	0.89	0.23	85,85,85,85	0
56	MG	13	1637	1/1	0.89	0.32	68,68,68,68	0
56	MG	1H	3202	1/1	0.89	0.24	75,75,75,75	0
56	MG	1H	3203	1/1	0.89	0.25	75,75,75,75	0
56	MG	1H	3271	1/1	0.89	0.28	94,94,94,94	0
56	MG	14	3237	1/1	0.89	0.15	62,62,62,62	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3152	1/1	0.89	0.24	91,91,91,91	0
56	MG	14	3067	1/1	0.89	0.19	74,74,74,74	0
56	MG	13	1627	1/1	0.89	0.33	81,81,81,81	0
56	MG	2L	103	1/1	0.89	0.25	79,79,79,79	0
56	MG	1H	3205	1/1	0.89	0.23	83,83,83,83	0
56	MG	14	3160	1/1	0.89	0.18	57,57,57,57	0
56	MG	1H	3173	1/1	0.89	0.34	79,79,79,79	0
56	MG	1H	3177	1/1	0.89	0.17	82,82,82,82	0
56	MG	1H	3020	1/1	0.89	0.21	60,60,60,60	0
56	MG	1H	3083	1/1	0.89	0.11	75,75,75,75	0
56	MG	14	3011	1/1	0.89	0.31	58,58,58,58	0
56	MG	1H	3115	1/1	0.89	0.24	76,76,76,76	0
56	MG	14	3013	1/1	0.89	0.25	83,83,83,83	0
56	MG	14	3091	1/1	0.89	0.42	87,87,87,87	0
56	MG	14	3014	1/1	0.89	0.21	49,49,49,49	0
56	MG	13	1662	1/1	0.89	0.23	82,82,82,82	0
56	MG	1H	3252	1/1	0.89	0.16	72,72,72,72	0
56	MG	1H	3285	1/1	0.89	0.19	72,72,72,72	0
56	MG	14	3184	1/1	0.89	0.24	86,86,86,86	0
56	MG	1H	3316	1/1	0.89	0.29	87,87,87,87	0
56	MG	1H	3278	1/1	0.90	0.27	92,92,92,92	0
56	MG	1H	3160	1/1	0.90	0.14	69,69,69,69	0
56	MG	13	1617	1/1	0.90	0.18	77,77,77,77	0
56	MG	13	1639	1/1	0.90	0.29	85,85,85,85	0
56	MG	13	1640	1/1	0.90	0.15	91,91,91,91	0
56	MG	1H	3166	1/1	0.90	0.11	68,68,68,68	0
56	MG	1H	3255	1/1	0.90	0.14	81,81,81,81	0
56	MG	1G	1645	1/1	0.90	0.28	88,88,88,88	0
56	MG	1H	3256	1/1	0.90	0.15	76,76,76,76	0
56	MG	1H	3289	1/1	0.90	0.20	82,82,82,82	0
56	MG	14	3219	1/1	0.90	0.24	78,78,78,78	0
56	MG	14	3148	1/1	0.90	0.24	72,72,72,72	0
56	MG	1H	3121	1/1	0.90	0.29	53,53,53,53	0
56	MG	14	3081	1/1	0.90	0.26	62,62,62,62	0
56	MG	14	3223	1/1	0.90	0.24	83,83,83,83	0
56	MG	14	3082	1/1	0.90	0.21	63,63,63,63	0
56	MG	14	3226	1/1	0.90	0.18	72,72,72,72	0
56	MG	1H	3098	1/1	0.90	0.13	69,69,69,69	0
56	MG	14	3228	1/1	0.90	0.23	93,93,93,93	0
56	MG	1H	3292	1/1	0.90	0.07	61,61,61,61	0
56	MG	1H	3151	1/1	0.90	0.09	52,52,52,52	0
56	MG	1H	3226	1/1	0.90	0.18	55,55,55,55	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3093	1/1	0.90	0.21	85,85,85,85	0
56	MG	14	3161	1/1	0.90	0.27	73,73,73,73	0
56	MG	14	3095	1/1	0.90	0.20	56,56,56,56	0
56	MG	1H	3171	1/1	0.90	0.20	74,74,74,74	0
56	MG	1H	3429	1/1	0.90	0.16	66,66,66,66	0
56	MG	14	3166	1/1	0.90	0.31	85,85,85,85	0
56	MG	14	3098	1/1	0.90	0.23	68,68,68,68	0
56	MG	14	3028	1/1	0.90	0.34	79,79,79,79	0
56	MG	1H	3009	1/1	0.90	0.23	66,66,66,66	0
56	MG	1G	1659	1/1	0.90	0.27	85,85,85,85	0
56	MG	1H	3231	1/1	0.90	0.25	56,56,56,56	0
56	MG	1G	1625	1/1	0.90	0.32	76,76,76,76	0
56	MG	14	3179	1/1	0.90	0.41	84,84,84,84	0
56	MG	13	1625	1/1	0.90	0.38	82,82,82,82	0
56	MG	14	3116	1/1	0.90	0.24	63,63,63,63	0
56	MG	14	3182	1/1	0.90	0.21	73,73,73,73	0
56	MG	1H	3155	1/1	0.90	0.21	86,86,86,86	0
56	MG	1H	3178	1/1	0.90	0.18	74,74,74,74	0
56	MG	1H	3126	1/1	0.90	0.15	72,72,72,72	0
56	MG	1G	1666	1/1	0.90	0.24	85,85,85,85	0
56	MG	14	3254	1/1	0.90	0.27	78,78,78,78	0
56	MG	13	1607	1/1	0.90	0.30	85,85,85,85	0
56	MG	14	3124	1/1	0.90	0.15	70,70,70,70	0
56	MG	1H	3182	1/1	0.90	0.18	77,77,77,77	0
56	MG	13	1731	1/1	0.90	0.19	94,94,94,94	0
56	MG	1H	3090	1/1	0.90	0.31	72,72,72,72	0
56	MG	14	3057	1/1	0.90	0.24	63,63,63,63	0
56	MG	1H	3213	1/1	0.90	0.47	84,84,84,84	0
56	MG	1H	3215	1/1	0.90	0.36	81,81,81,81	0
56	MG	14	3099	1/1	0.91	0.21	62,62,62,62	0
56	MG	1H	3142	1/1	0.91	0.19	68,68,68,68	0
56	MG	14	3044	1/1	0.91	0.26	68,68,68,68	0
56	MG	14	3103	1/1	0.91	0.16	66,66,66,66	0
56	MG	14	3107	1/1	0.91	0.15	87,87,87,87	0
56	MG	14	3163	1/1	0.91	0.30	76,76,76,76	0
56	MG	1H	3147	1/1	0.91	0.10	72,72,72,72	0
56	MG	1G	1628	1/1	0.91	0.13	98,98,98,98	0
56	MG	13	1722	1/1	0.91	0.10	93,93,93,93	0
56	MG	14	3283	1/1	0.91	0.17	80,80,80,80	0
56	MG	1H	3049	1/1	0.91	0.08	65,65,65,65	0
56	MG	1H	3303	1/1	0.91	0.23	73,73,73,73	0
56	MG	13	1670	1/1	0.91	0.20	95,95,95,95	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3030	1/1	0.91	0.24	69,69,69,69	0
56	MG	2I	302	1/1	0.91	0.12	78,78,78,78	0
56	MG	14	3173	1/1	0.91	0.13	82,82,82,82	0
56	MG	14	3236	1/1	0.91	0.13	79,79,79,79	0
56	MG	4I	201	1/1	0.91	0.18	71,71,71,71	0
56	MG	1H	3243	1/1	0.91	0.06	56,56,56,56	0
56	MG	1H	3075	1/1	0.91	0.10	79,79,79,79	0
56	MG	1H	3076	1/1	0.91	0.14	65,65,65,65	0
56	MG	1H	3210	1/1	0.91	0.20	73,73,73,73	0
56	MG	1H	3127	1/1	0.91	0.16	53,53,53,53	0
56	MG	1H	3100	1/1	0.91	0.14	56,56,56,56	0
56	MG	1H	3282	1/1	0.91	0.14	78,78,78,78	0
56	MG	1H	3185	1/1	0.91	0.19	78,78,78,78	0
56	MG	1H	3130	1/1	0.91	0.12	60,60,60,60	0
56	MG	1H	3161	1/1	0.91	0.21	84,84,84,84	0
56	MG	1H	3188	1/1	0.91	0.34	76,76,76,76	0
56	MG	14	3194	1/1	0.91	0.21	86,86,86,86	0
56	MG	2K	101	1/1	0.91	0.31	86,86,86,86	0
56	MG	14	3080	1/1	0.91	0.18	67,67,67,67	0
56	MG	1H	3008	1/1	0.91	0.12	74,74,74,74	0
56	MG	13	1601	1/1	0.91	0.18	59,59,59,59	0
56	MG	2K	103	1/1	0.91	0.17	71,71,71,71	0
56	MG	1H	3195	1/1	0.91	0.34	78,78,78,78	0
56	MG	1H	3324	1/1	0.91	0.17	69,69,69,69	0
56	MG	14	3205	1/1	0.91	0.08	80,80,80,80	0
56	MG	14	3382	1/1	0.91	0.14	100,100,100,100	0
56	MG	14	3147	1/1	0.91	0.22	93,93,93,93	0
56	MG	1H	3325	1/1	0.91	0.19	76,76,76,76	0
56	MG	1H	3196	1/1	0.91	0.35	80,80,80,80	0
56	MG	1H	3112	1/1	0.91	0.19	66,66,66,66	0
56	MG	1H	3228	1/1	0.91	0.21	57,57,57,57	0
56	MG	14	3153	1/1	0.91	0.26	78,78,78,78	0
56	MG	13	1603	1/1	0.91	0.25	92,92,92,92	0
56	MG	85	201	1/1	0.91	0.54	88,88,88,88	0
56	MG	14	3155	1/1	0.91	0.13	71,71,71,71	0
56	MG	1H	3024	1/1	0.91	0.34	70,70,70,70	0
56	MG	1H	3080	1/1	0.92	0.10	86,86,86,86	0
56	MG	14	3174	1/1	0.92	0.34	81,81,81,81	0
56	MG	14	3175	1/1	0.92	0.20	96,96,96,96	0
56	MG	1H	3096	1/1	0.92	0.27	78,78,78,78	0
56	MG	14	3177	1/1	0.92	0.26	87,87,87,87	0
56	MG	14	3178	1/1	0.92	0.44	90,90,90,90	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1G	1617	1/1	0.92	0.11	125,125,125,125	0
56	MG	1H	3272	1/1	0.92	0.14	89,89,89,89	0
56	MG	1H	3201	1/1	0.92	0.29	70,70,70,70	0
56	MG	13	1650	1/1	0.92	0.30	79,79,79,79	0
56	MG	14	3090	1/1	0.92	0.17	70,70,70,70	0
56	MG	13	1641	1/1	0.92	0.25	75,75,75,75	0
56	MG	88	201	1/1	0.92	0.22	81,81,81,81	0
56	MG	14	3048	1/1	0.92	0.27	55,55,55,55	0
56	MG	14	3008	1/1	0.92	0.28	65,65,65,65	0
56	MG	1H	3011	1/1	0.92	0.29	71,71,71,71	0
56	MG	14	3010	1/1	0.92	0.24	54,54,54,54	0
56	MG	1H	3027	1/1	0.92	0.24	48,48,48,48	0
56	MG	14	3195	1/1	0.92	0.08	107,107,107,107	0
56	MG	14	3196	1/1	0.92	0.23	69,69,69,69	0
56	MG	14	3100	1/1	0.92	0.14	91,91,91,91	0
56	MG	1H	3150	1/1	0.92	0.10	70,70,70,70	0
56	MG	1H	3087	1/1	0.92	0.11	65,65,65,65	0
56	MG	14	3200	1/1	0.92	0.22	67,67,67,67	0
56	MG	1H	3102	1/1	0.92	0.23	55,55,55,55	0
56	MG	14	3059	1/1	0.92	0.22	55,55,55,55	0
56	MG	14	3109	1/1	0.92	0.24	72,72,72,72	0
56	MG	1H	3070	1/1	0.92	0.24	50,50,50,50	0
56	MG	14	3111	1/1	0.92	0.22	69,69,69,69	0
56	MG	1H	3107	1/1	0.92	0.24	73,73,73,73	0
56	MG	13	1610	1/1	0.92	0.15	72,72,72,72	0
56	MG	1G	1605	1/1	0.92	0.23	85,85,85,85	0
56	MG	14	3066	1/1	0.92	0.17	72,72,72,72	0
56	MG	1H	3214	1/1	0.92	0.15	68,68,68,68	0
56	MG	1H	3175	1/1	0.92	0.28	70,70,70,70	0
56	MG	13	1615	1/1	0.92	0.14	85,85,85,85	0
56	MG	14	3216	1/1	0.92	0.18	70,70,70,70	0
56	MG	14	3121	1/1	0.92	0.18	84,84,84,84	0
56	MG	1H	3059	1/1	0.92	0.16	48,48,48,48	0
56	MG	29	301	1/1	0.92	0.16	63,63,63,63	0
56	MG	1H	3218	1/1	0.92	0.10	76,76,76,76	0
56	MG	14	3267	1/1	0.92	0.22	66,66,66,66	0
56	MG	14	3073	1/1	0.92	0.29	81,81,81,81	0
56	MG	14	3269	1/1	0.92	0.25	75,75,75,75	0
56	MG	45	203	1/1	0.92	0.20	73,73,73,73	0
56	MG	1G	1639	1/1	0.92	0.34	80,80,80,80	0
56	MG	14	3029	1/1	0.92	0.21	83,83,83,83	0
56	MG	1H	3113	1/1	0.92	0.12	67,67,67,67	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3222	1/1	0.93	0.28	79,79,79,79	0
56	MG	14	3207	1/1	0.93	0.12	89,89,89,89	0
56	MG	14	3208	1/1	0.93	0.10	67,67,67,67	0
56	MG	13	1638	1/1	0.93	0.30	87,87,87,87	0
56	MG	14	3088	1/1	0.93	0.21	73,73,73,73	0
56	MG	13	1630	1/1	0.93	0.37	71,71,71,71	0
56	MG	1G	1613	1/1	0.93	0.10	100,100,100,100	0
56	MG	1H	3174	1/1	0.93	0.16	85,85,85,85	0
56	MG	14	3094	1/1	0.93	0.12	82,82,82,82	0
56	MG	14	3275	1/1	0.93	0.16	68,68,68,68	0
56	MG	1H	3062	1/1	0.93	0.21	54,54,54,54	0
56	MG	1H	3294	1/1	0.93	0.32	71,71,71,71	0
56	MG	14	3218	1/1	0.93	0.20	60,60,60,60	0
56	MG	14	3158	1/1	0.93	0.09	71,71,71,71	0
56	MG	1H	3176	1/1	0.93	0.19	68,68,68,68	0
56	MG	1H	3359	1/1	0.93	0.16	66,66,66,66	0
56	MG	14	3036	1/1	0.93	0.20	73,73,73,73	0
56	MG	1H	3380	1/1	0.93	0.08	70,70,70,70	0
56	MG	14	3038	1/1	0.93	0.18	86,86,86,86	0
56	MG	3I	201	1/1	0.93	0.12	62,62,62,62	0
56	MG	1H	3086	1/1	0.93	0.21	41,41,41,41	0
56	MG	14	3105	1/1	0.93	0.11	52,52,52,52	0
56	MG	1H	3016	1/1	0.93	0.19	48,48,48,48	0
56	MG	1G	1624	1/1	0.93	0.18	76,76,76,76	0
56	MG	1H	3106	1/1	0.93	0.16	77,77,77,77	0
56	MG	14	3049	1/1	0.93	0.11	58,58,58,58	0
56	MG	14	3171	1/1	0.93	0.16	56,56,56,56	0
56	MG	1H	3268	1/1	0.93	0.26	79,79,79,79	0
56	MG	1H	3181	1/1	0.93	0.04	74,74,74,74	0
56	MG	13	1631	1/1	0.93	0.38	93,93,93,93	0
56	MG	1G	1682	1/1	0.93	0.12	91,91,91,91	0
56	MG	1H	3238	1/1	0.93	0.12	82,82,82,82	0
56	MG	1H	3208	1/1	0.93	0.22	63,63,63,63	0
56	MG	1H	3131	1/1	0.93	0.12	62,62,62,62	0
56	MG	2I	301	1/1	0.93	0.17	57,57,57,57	0
56	MG	1H	3031	1/1	0.93	0.15	65,65,65,65	0
56	MG	1H	3242	1/1	0.93	0.27	64,64,64,64	0
56	MG	14	3005	1/1	0.93	0.18	44,44,44,44	0
56	MG	1H	3211	1/1	0.93	0.17	71,71,71,71	0
56	MG	1H	3133	1/1	0.93	0.23	69,69,69,69	0
56	MG	13	1624	1/1	0.93	0.11	71,71,71,71	0
56	MG	1H	3092	1/1	0.93	0.17	67,67,67,67	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3129	1/1	0.93	0.21	58,58,58,58	0
56	MG	1H	3136	1/1	0.93	0.13	68,68,68,68	0
56	MG	1H	3313	1/1	0.93	0.06	66,66,66,66	0
56	MG	1H	3002	1/1	0.93	0.17	49,49,49,49	0
56	MG	14	3072	1/1	0.93	0.17	55,55,55,55	0
56	MG	1H	3003	1/1	0.93	0.12	54,54,54,54	0
56	MG	1H	3079	1/1	0.93	0.12	61,61,61,61	0
56	MG	1H	3021	1/1	0.93	0.19	57,57,57,57	0
56	MG	14	3078	1/1	0.93	0.14	64,64,64,64	0
56	MG	14	3018	1/1	0.93	0.22	73,73,73,73	0
56	MG	1H	3119	1/1	0.93	0.27	78,78,78,78	0
56	MG	1H	3143	1/1	0.93	0.28	77,77,77,77	0
56	MG	14	3145	1/1	0.93	0.14	67,67,67,67	0
56	MG	1H	3320	1/1	0.93	0.07	68,68,68,68	0
56	MG	1G	1648	1/1	0.93	0.27	78,78,78,78	0
59	ZN	G8	201	1/1	0.93	0.19	144,144,144,144	0
56	MG	14	3189	1/1	0.94	0.25	73,73,73,73	0
56	MG	1H	3165	1/1	0.94	0.23	79,79,79,79	0
56	MG	14	3144	1/1	0.94	0.30	58,58,58,58	0
56	MG	14	3054	1/1	0.94	0.09	83,83,83,83	0
56	MG	14	3016	1/1	0.94	0.18	60,60,60,60	0
56	MG	13	1701	1/1	0.94	0.17	121,121,121,121	0
56	MG	1H	3068	1/1	0.94	0.12	56,56,56,56	0
56	MG	1H	3229	1/1	0.94	0.13	45,45,45,45	0
56	MG	1H	3146	1/1	0.94	0.19	59,59,59,59	0
56	MG	14	3104	1/1	0.94	0.10	64,64,64,64	0
56	MG	1G	1607	1/1	0.94	0.12	77,77,77,77	0
56	MG	1G	1608	1/1	0.94	0.06	101,101,101,101	0
56	MG	1H	3069	1/1	0.94	0.13	60,60,60,60	0
56	MG	1H	3006	1/1	0.94	0.14	61,61,61,61	0
56	MG	1H	3071	1/1	0.94	0.16	56,56,56,56	0
56	MG	14	3112	1/1	0.94	0.18	61,61,61,61	0
56	MG	14	3026	1/1	0.94	0.26	68,68,68,68	0
56	MG	1H	3286	1/1	0.94	0.09	64,64,64,64	0
56	MG	1H	3235	1/1	0.94	0.14	85,85,85,85	0
56	MG	1H	3193	1/1	0.94	0.25	72,72,72,72	0
56	MG	13	1613	1/1	0.94	0.14	77,77,77,77	0
56	MG	1H	3074	1/1	0.94	0.20	69,69,69,69	0
56	MG	1H	3060	1/1	0.94	0.18	52,52,52,52	0
56	MG	1H	3029	1/1	0.94	0.29	69,69,69,69	0
56	MG	1H	3077	1/1	0.94	0.09	63,63,63,63	0
56	MG	14	3077	1/1	0.94	0.13	60,60,60,60	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3095	1/1	0.94	0.15	73,73,73,73	0
56	MG	1H	3001	1/1	0.94	0.23	53,53,53,53	0
56	MG	14	3040	1/1	0.94	0.31	84,84,84,84	0
56	MG	14	3041	1/1	0.94	0.09	49,49,49,49	0
56	MG	14	3042	1/1	0.94	0.16	58,58,58,58	0
56	MG	14	3043	1/1	0.94	0.14	52,52,52,52	0
56	MG	14	3085	1/1	0.94	0.26	51,51,51,51	0
56	MG	1H	3245	1/1	0.94	0.24	74,74,74,74	0
56	MG	14	3045	1/1	0.94	0.20	64,64,64,64	0
56	MG	14	3270	1/1	0.94	0.25	84,84,84,84	0
56	MG	1G	1623	1/1	0.94	0.19	83,83,83,83	0
56	MG	1H	3117	1/1	0.94	0.18	82,82,82,82	0
56	MG	13	1619	1/1	0.94	0.16	69,69,69,69	0
56	MG	14	3136	1/1	0.94	0.13	62,62,62,62	0
56	MG	13	1616	1/1	0.94	0.29	77,77,77,77	0
56	MG	1H	3066	1/1	0.94	0.10	48,48,48,48	0
56	MG	1H	3122	1/1	0.94	0.16	50,50,50,50	0
56	MG	14	3052	1/1	0.94	0.13	71,71,71,71	0
56	MG	14	3279	1/1	0.94	0.09	73,73,73,73	0
56	MG	14	3065	1/1	0.95	0.10	68,68,68,68	0
56	MG	14	3092	1/1	0.95	0.06	75,75,75,75	0
56	MG	13	1680	1/1	0.95	0.33	87,87,87,87	0
56	MG	1H	3082	1/1	0.95	0.17	65,65,65,65	0
56	MG	14	3151	1/1	0.95	0.33	81,81,81,81	0
56	MG	1H	3129	1/1	0.95	0.07	56,56,56,56	0
56	MG	1H	3145	1/1	0.95	0.24	77,77,77,77	0
56	MG	13	1659	1/1	0.95	0.10	87,87,87,87	0
56	MG	14	3027	1/1	0.95	0.26	71,71,71,71	0
56	MG	1H	3247	1/1	0.95	0.20	73,73,73,73	0
56	MG	14	3187	1/1	0.95	0.21	75,75,75,75	0
56	MG	1H	3103	1/1	0.95	0.10	51,51,51,51	0
56	MG	1H	3148	1/1	0.95	0.11	49,49,49,49	0
56	MG	1H	3026	1/1	0.95	0.28	50,50,50,50	0
56	MG	1H	3105	1/1	0.95	0.13	64,64,64,64	0
56	MG	1H	3168	1/1	0.95	0.09	65,65,65,65	0
56	MG	14	3034	1/1	0.95	0.25	74,74,74,74	0
56	MG	14	3035	1/1	0.95	0.26	84,84,84,84	0
56	MG	14	3108	1/1	0.95	0.10	75,75,75,75	0
56	MG	1H	3057	1/1	0.95	0.18	52,52,52,52	0
56	MG	14	3138	1/1	0.95	0.18	55,55,55,55	0
56	MG	13	1682	1/1	0.95	0.07	73,73,73,73	0
56	MG	13	1666	1/1	0.95	0.05	89,89,89,89	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	13	1618	1/1	0.95	0.07	97,97,97,97	0
56	MG	1H	3111	1/1	0.95	0.12	60,60,60,60	0
56	MG	1H	3022	1/1	0.95	0.13	52,52,52,52	0
56	MG	14	3063	1/1	0.95	0.10	77,77,77,77	0
56	MG	14	3089	1/1	0.95	0.22	54,54,54,54	0
57	PAR	13	1730	42/42	0.95	0.08	67,77,86,91	0
56	MG	1H	3421	1/1	0.95	0.09	83,83,83,83	0
56	MG	1G	1678	1/1	0.96	0.07	92,92,92,92	0
56	MG	13	1723	1/1	0.96	0.10	73,73,73,73	0
56	MG	L8	101	1/1	0.96	0.35	88,88,88,88	0
56	MG	1H	3387	1/1	0.96	0.08	72,72,72,72	0
56	MG	1H	3399	1/1	0.96	0.06	91,91,91,91	0
56	MG	14	3241	1/1	0.96	0.26	68,68,68,68	0
56	MG	1H	3414	1/1	0.96	0.07	83,83,83,83	0
56	MG	1H	3237	1/1	0.96	0.08	77,77,77,77	0
56	MG	14	3185	1/1	0.96	0.08	74,74,74,74	0
56	MG	14	3186	1/1	0.96	0.43	83,83,83,83	0
56	MG	1H	3109	1/1	0.96	0.06	59,59,59,59	0
56	MG	1H	3154	1/1	0.96	0.28	69,69,69,69	0
56	MG	14	3006	1/1	0.96	0.30	58,58,58,58	0
56	MG	13	1728	1/1	0.96	0.07	127,127,127,127	0
56	MG	14	3311	1/1	0.96	0.12	83,83,83,83	0
56	MG	14	3340	1/1	0.96	0.07	83,83,83,83	0
56	MG	14	3137	1/1	0.96	0.07	62,62,62,62	0
56	MG	1H	3139	1/1	0.96	0.13	64,64,64,64	0
56	MG	1H	3073	1/1	0.96	0.10	47,47,47,47	0
56	MG	1H	3190	1/1	0.96	0.24	67,67,67,67	0
56	MG	1H	3063	1/1	0.96	0.12	55,55,55,55	0
56	MG	14	3225	1/1	0.96	0.07	71,71,71,71	0
56	MG	1H	3004	1/1	0.96	0.11	41,41,41,41	0
56	MG	13	1614	1/1	0.96	0.03	81,81,81,81	0
56	MG	1H	3056	1/1	0.96	0.15	40,40,40,40	0
56	MG	1H	3078	1/1	0.96	0.07	57,57,57,57	0
56	MG	13	1634	1/1	0.96	0.16	53,53,53,53	0
56	MG	13	1635	1/1	0.96	0.07	54,54,54,54	0
56	MG	1H	3149	1/1	0.96	0.33	65,65,65,65	0
56	MG	13	1657	1/1	0.96	0.09	80,80,80,80	0
56	MG	13	1658	1/1	0.96	0.04	82,82,82,82	0
57	PAR	1G	1681	42/42	0.96	0.07	79,90,98,101	0
56	MG	1H	3374	1/1	0.96	0.08	88,88,88,88	0
56	MG	14	3282	1/1	0.97	0.43	84,84,84,84	0
56	MG	14	3074	1/1	0.97	0.13	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1G	1674	1/1	0.97	0.04	123,123,123,123	0
56	MG	1G	1676	1/1	0.97	0.07	111,111,111,111	0
56	MG	13	1725	1/1	0.97	0.10	102,102,102,102	0
56	MG	1G	1679	1/1	0.97	0.10	138,138,138,138	0
56	MG	14	3317	1/1	0.97	0.07	64,64,64,64	0
56	MG	14	3334	1/1	0.97	0.06	85,85,85,85	0
56	MG	14	3338	1/1	0.97	0.10	111,111,111,111	0
56	MG	1H	3344	1/1	0.97	0.09	75,75,75,75	0
56	MG	14	3341	1/1	0.97	0.05	94,94,94,94	0
56	MG	14	3358	1/1	0.97	0.04	64,64,64,64	0
56	MG	14	3365	1/1	0.97	0.04	88,88,88,88	0
56	MG	14	3367	1/1	0.97	0.06	94,94,94,94	0
56	MG	14	3370	1/1	0.97	0.05	99,99,99,99	0
56	MG	14	3371	1/1	0.97	0.04	72,72,72,72	0
56	MG	14	3379	1/1	0.97	0.10	107,107,107,107	0
56	MG	1G	1655	1/1	0.97	0.12	94,94,94,94	0
56	MG	1H	3023	1/1	0.97	0.36	57,57,57,57	0
56	MG	1H	3091	1/1	0.97	0.05	61,61,61,61	0
56	MG	1H	3266	1/1	0.97	0.09	60,60,60,60	0
56	MG	14	3084	1/1	0.97	0.15	73,73,73,73	0
56	MG	1J	205	1/1	0.97	0.10	109,109,109,109	0
56	MG	1H	3267	1/1	0.97	0.13	69,69,69,69	0
56	MG	1H	3389	1/1	0.97	0.08	64,64,64,64	0
56	MG	1H	3116	1/1	0.97	0.07	56,56,56,56	0
56	MG	1H	3408	1/1	0.97	0.04	80,80,80,80	0
56	MG	1H	3413	1/1	0.97	0.06	107,107,107,107	0
56	MG	13	1732	1/1	0.97	0.14	65,65,65,65	0
56	MG	1H	3037	1/1	0.97	0.34	63,63,63,63	0
56	MG	1G	1650	1/1	0.97	0.08	91,91,91,91	0
56	MG	1H	3423	1/1	0.97	0.09	147,147,147,147	0
56	MG	13	1707	1/1	0.97	0.04	85,85,85,85	0
56	MG	14	3118	1/1	0.97	0.06	66,66,66,66	0
56	MG	1G	1671	1/1	0.97	0.07	90,90,90,90	0
59	ZN	C5	202	1/1	0.97	0.06	165,165,165,165	0
56	MG	1H	3418	1/1	0.98	0.05	88,88,88,88	0
56	MG	1H	3330	1/1	0.98	0.04	60,60,60,60	0
56	MG	14	3352	1/1	0.98	0.04	78,78,78,78	0
56	MG	P8	101	1/1	0.98	0.04	78,78,78,78	0
56	MG	14	3360	1/1	0.98	0.04	75,75,75,75	0
56	MG	1H	3343	1/1	0.98	0.05	65,65,65,65	0
56	MG	14	3366	1/1	0.98	0.08	92,92,92,92	0
56	MG	1G	1672	1/1	0.98	0.10	121,121,121,121	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3424	1/1	0.98	0.06	89,89,89,89	0
56	MG	1H	3427	1/1	0.98	0.04	84,84,84,84	0
56	MG	13	1705	1/1	0.98	0.04	94,94,94,94	0
56	MG	1H	3348	1/1	0.98	0.07	100,100,100,100	0
56	MG	1H	3358	1/1	0.98	0.06	68,68,68,68	0
56	MG	13	1609	1/1	0.98	0.08	73,73,73,73	0
56	MG	1H	3373	1/1	0.98	0.04	82,82,82,82	0
56	MG	1H	3144	1/1	0.98	0.03	54,54,54,54	0
56	MG	1J	204	1/1	0.98	0.09	99,99,99,99	0
56	MG	1H	3120	1/1	0.98	0.10	41,41,41,41	0
56	MG	1H	3386	1/1	0.98	0.04	52,52,52,52	0
56	MG	13	1724	1/1	0.98	0.04	108,108,108,108	0
56	MG	1H	3388	1/1	0.98	0.06	63,63,63,63	0
56	MG	1H	3279	1/1	0.98	0.09	51,51,51,51	0
56	MG	1H	3391	1/1	0.98	0.03	107,107,107,107	0
56	MG	13	1714	1/1	0.98	0.04	104,104,104,104	0
56	MG	13	1727	1/1	0.98	0.05	115,115,115,115	0
56	MG	14	3106	1/1	0.98	0.37	69,69,69,69	0
56	MG	1H	3409	1/1	0.98	0.04	86,86,86,86	0
56	MG	1H	3233	1/1	0.98	0.05	50,50,50,50	0
56	MG	14	3209	1/1	0.98	0.11	67,67,67,67	0
56	MG	14	3336	1/1	0.98	0.04	77,77,77,77	0
56	MG	1H	3328	1/1	0.98	0.04	52,52,52,52	0
56	MG	1H	3367	1/1	0.99	0.04	71,71,71,71	0
56	MG	1H	3369	1/1	0.99	0.03	69,69,69,69	0
56	MG	1H	3372	1/1	0.99	0.04	53,53,53,53	0
56	MG	13	1708	1/1	0.99	0.04	85,85,85,85	0
56	MG	13	1709	1/1	0.99	0.03	94,94,94,94	0
56	MG	1H	3376	1/1	0.99	0.03	60,60,60,60	0
56	MG	1H	3377	1/1	0.99	0.05	77,77,77,77	0
56	MG	1H	3378	1/1	0.99	0.03	68,68,68,68	0
56	MG	1G	1669	1/1	0.99	0.05	82,82,82,82	0
56	MG	1G	1670	1/1	0.99	0.03	88,88,88,88	0
56	MG	1H	3379	1/1	0.99	0.02	61,61,61,61	0
56	MG	13	1726	1/1	0.99	0.03	82,82,82,82	0
56	MG	1G	1673	1/1	0.99	0.04	85,85,85,85	0
56	MG	1H	3381	1/1	0.99	0.04	59,59,59,59	0
56	MG	1G	1675	1/1	0.99	0.04	116,116,116,116	0
56	MG	1H	3382	1/1	0.99	0.02	60,60,60,60	0
56	MG	1G	1677	1/1	0.99	0.04	119,119,119,119	0
56	MG	1H	3383	1/1	0.99	0.03	65,65,65,65	0
56	MG	1H	3384	1/1	0.99	0.04	109,109,109,109	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1G	1680	1/1	0.99	0.03	120,120,120,120	0
56	MG	1H	3385	1/1	0.99	0.04	78,78,78,78	0
56	MG	13	1711	1/1	0.99	0.05	92,92,92,92	0
56	MG	13	1712	1/1	0.99	0.03	78,78,78,78	0
56	MG	13	1729	1/1	0.99	0.05	103,103,103,103	0
56	MG	14	3001	1/1	0.99	0.02	51,51,51,51	0
56	MG	13	1713	1/1	0.99	0.02	88,88,88,88	0
56	MG	1H	3390	1/1	0.99	0.04	88,88,88,88	0
56	MG	13	1703	1/1	0.99	0.09	70,70,70,70	0
56	MG	1H	3392	1/1	0.99	0.03	71,71,71,71	0
56	MG	1H	3393	1/1	0.99	0.06	70,70,70,70	0
56	MG	1H	3395	1/1	0.99	0.03	74,74,74,74	0
56	MG	1H	3396	1/1	0.99	0.02	58,58,58,58	0
56	MG	1H	3397	1/1	0.99	0.03	71,71,71,71	0
56	MG	1H	3398	1/1	0.99	0.03	83,83,83,83	0
56	MG	13	1715	1/1	0.99	0.03	100,100,100,100	0
56	MG	1H	3404	1/1	0.99	0.08	64,64,64,64	0
56	MG	1H	3405	1/1	0.99	0.06	52,52,52,52	0
56	MG	1H	3406	1/1	0.99	0.04	65,65,65,65	0
56	MG	1H	3407	1/1	0.99	0.03	86,86,86,86	0
56	MG	14	3313	1/1	0.99	0.04	64,64,64,64	0
56	MG	14	3314	1/1	0.99	0.04	73,73,73,73	0
56	MG	14	3316	1/1	0.99	0.02	67,67,67,67	0
56	MG	13	1717	1/1	0.99	0.05	74,74,74,74	0
56	MG	14	3318	1/1	0.99	0.06	71,71,71,71	0
56	MG	14	3319	1/1	0.99	0.07	62,62,62,62	0
56	MG	14	3320	1/1	0.99	0.03	84,84,84,84	0
56	MG	14	3321	1/1	0.99	0.05	73,73,73,73	0
56	MG	14	3322	1/1	0.99	0.04	72,72,72,72	0
56	MG	14	3324	1/1	0.99	0.05	77,77,77,77	0
56	MG	14	3329	1/1	0.99	0.03	55,55,55,55	0
56	MG	14	3330	1/1	0.99	0.03	65,65,65,65	0
56	MG	14	3332	1/1	0.99	0.05	64,64,64,64	0
56	MG	14	3333	1/1	0.99	0.04	79,79,79,79	0
56	MG	1H	3329	1/1	0.99	0.04	59,59,59,59	0
56	MG	1H	3410	1/1	0.99	0.04	53,53,53,53	0
56	MG	14	3337	1/1	0.99	0.05	79,79,79,79	0
56	MG	1H	3411	1/1	0.99	0.03	100,100,100,100	0
56	MG	1H	3412	1/1	0.99	0.04	68,68,68,68	0
56	MG	13	1718	1/1	0.99	0.04	67,67,67,67	0
56	MG	14	3342	1/1	0.99	0.05	94,94,94,94	0
56	MG	14	3344	1/1	0.99	0.04	95,95,95,95	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	14	3345	1/1	0.99	0.07	118,118,118,118	0
56	MG	14	3347	1/1	0.99	0.06	77,77,77,77	0
56	MG	14	3348	1/1	0.99	0.03	83,83,83,83	0
56	MG	14	3349	1/1	0.99	0.03	90,90,90,90	0
56	MG	14	3350	1/1	0.99	0.06	76,76,76,76	0
56	MG	1H	3333	1/1	0.99	0.07	63,63,63,63	0
56	MG	14	3353	1/1	0.99	0.06	69,69,69,69	0
56	MG	14	3354	1/1	0.99	0.08	87,87,87,87	0
56	MG	14	3355	1/1	0.99	0.04	92,92,92,92	0
56	MG	14	3357	1/1	0.99	0.08	77,77,77,77	0
56	MG	1H	3415	1/1	0.99	0.04	94,94,94,94	0
56	MG	1H	3416	1/1	0.99	0.09	104,104,104,104	0
56	MG	14	3361	1/1	0.99	0.04	60,60,60,60	0
56	MG	14	3362	1/1	0.99	0.04	77,77,77,77	0
56	MG	14	3364	1/1	0.99	0.05	73,73,73,73	0
56	MG	1H	3334	1/1	0.99	0.04	51,51,51,51	0
56	MG	1H	3419	1/1	0.99	0.02	73,73,73,73	0
56	MG	1H	3420	1/1	0.99	0.10	76,76,76,76	0
56	MG	14	3369	1/1	0.99	0.11	84,84,84,84	0
56	MG	1H	3335	1/1	0.99	0.03	50,50,50,50	0
56	MG	1H	3422	1/1	0.99	0.05	100,100,100,100	0
56	MG	14	3373	1/1	0.99	0.03	87,87,87,87	0
56	MG	14	3374	1/1	0.99	0.04	129,129,129,129	0
56	MG	14	3375	1/1	0.99	0.05	111,111,111,111	0
56	MG	14	3376	1/1	0.99	0.03	90,90,90,90	0
56	MG	14	3377	1/1	0.99	0.05	60,60,60,60	0
56	MG	14	3378	1/1	0.99	0.02	62,62,62,62	0
56	MG	1H	3338	1/1	0.99	0.03	59,59,59,59	0
56	MG	14	3380	1/1	0.99	0.02	83,83,83,83	0
56	MG	1H	3341	1/1	0.99	0.03	57,57,57,57	0
56	MG	1H	3425	1/1	0.99	0.04	92,92,92,92	0
56	MG	13	1719	1/1	0.99	0.05	86,86,86,86	0
56	MG	13	1720	1/1	0.99	0.13	115,115,115,115	0
56	MG	1H	3345	1/1	0.99	0.05	58,58,58,58	0
56	MG	1H	3346	1/1	0.99	0.08	63,63,63,63	0
56	MG	13	1721	1/1	0.99	0.03	79,79,79,79	0
56	MG	1H	3350	1/1	0.99	0.05	72,72,72,72	0
56	MG	1H	3352	1/1	0.99	0.05	71,71,71,71	0
56	MG	1H	3354	1/1	0.99	0.11	65,65,65,65	0
56	MG	1H	3356	1/1	0.99	0.03	61,61,61,61	0
56	MG	1H	3357	1/1	0.99	0.03	58,58,58,58	0
56	MG	13	1706	1/1	0.99	0.05	87,87,87,87	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	16	209	1/1	0.99	0.04	64,64,64,64	0
56	MG	16	210	1/1	0.99	0.09	81,81,81,81	0
56	MG	16	211	1/1	0.99	0.06	85,85,85,85	0
56	MG	13	1704	1/1	0.99	0.04	85,85,85,85	0
56	MG	1H	3360	1/1	0.99	0.02	57,57,57,57	0
58	SF4	3E	302	8/8	0.99	0.05	76,86,96,96	0
58	SF4	32	301	8/8	0.99	0.03	92,113,120,129	0
56	MG	1H	3364	1/1	0.99	0.04	56,56,56,56	0
59	ZN	5A	101	1/1	0.99	0.04	139,139,139,139	0
56	MG	1H	3365	1/1	0.99	0.03	54,54,54,54	0
56	MG	14	3356	1/1	1.00	0.05	98,98,98,98	0
56	MG	13	1716	1/1	1.00	0.02	88,88,88,88	0
56	MG	1H	3400	1/1	1.00	0.05	52,52,52,52	0
56	MG	14	3359	1/1	1.00	0.03	55,55,55,55	0
56	MG	14	3315	1/1	1.00	0.06	71,71,71,71	0
56	MG	1H	3401	1/1	1.00	0.03	55,55,55,55	0
56	MG	1H	3402	1/1	1.00	0.04	60,60,60,60	0
56	MG	14	3363	1/1	1.00	0.01	51,51,51,51	0
56	MG	1H	3403	1/1	1.00	0.03	61,61,61,61	0
56	MG	1H	3355	1/1	1.00	0.02	58,58,58,58	0
56	MG	1H	3342	1/1	1.00	0.04	59,59,59,59	0
56	MG	13	1710	1/1	1.00	0.03	72,72,72,72	0
56	MG	14	3368	1/1	1.00	0.04	49,49,49,49	0
56	MG	1H	3331	1/1	1.00	0.02	51,51,51,51	0
56	MG	14	3323	1/1	1.00	0.03	66,66,66,66	0
56	MG	1H	3336	1/1	1.00	0.04	49,49,49,49	0
56	MG	14	3372	1/1	1.00	0.02	87,87,87,87	0
56	MG	14	3325	1/1	1.00	0.03	76,76,76,76	0
56	MG	14	3326	1/1	1.00	0.02	61,61,61,61	0
56	MG	14	3327	1/1	1.00	0.02	84,84,84,84	0
56	MG	14	3328	1/1	1.00	0.05	64,64,64,64	0
56	MG	1H	3337	1/1	1.00	0.05	55,55,55,55	0
56	MG	1H	3361	1/1	1.00	0.03	82,82,82,82	0
56	MG	14	3331	1/1	1.00	0.06	63,63,63,63	0
56	MG	1H	3362	1/1	1.00	0.02	64,64,64,64	0
56	MG	1H	3363	1/1	1.00	0.03	69,69,69,69	0
56	MG	1H	3347	1/1	1.00	0.02	78,78,78,78	0
56	MG	14	3335	1/1	1.00	0.02	63,63,63,63	0
56	MG	1H	3332	1/1	1.00	0.02	66,66,66,66	0
56	MG	1H	3366	1/1	1.00	0.11	59,59,59,59	0
56	MG	1H	3349	1/1	1.00	0.03	74,74,74,74	0
56	MG	14	3339	1/1	1.00	0.02	64,64,64,64	0

Continued on next page...

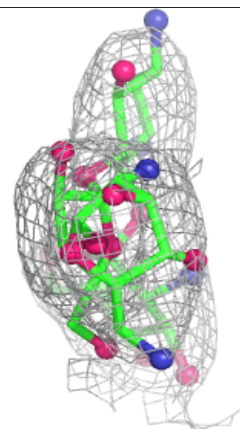
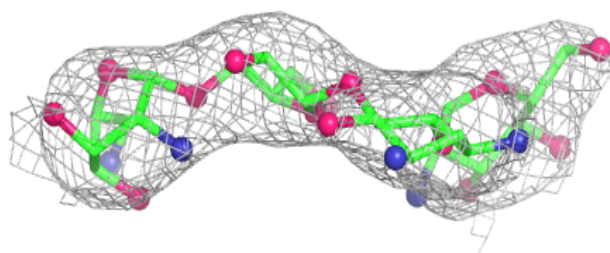
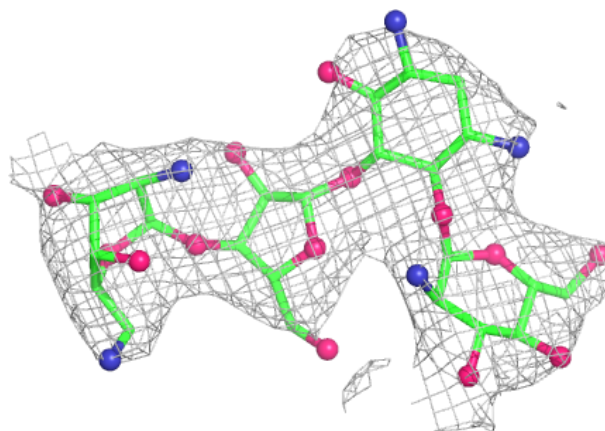
Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1H	3417	1/1	1.00	0.01	62,62,62,62	0
56	MG	I8	101	1/1	1.00	0.04	59,59,59,59	0
56	MG	1H	3368	1/1	1.00	0.04	57,57,57,57	0
56	MG	14	3343	1/1	1.00	0.02	71,71,71,71	0
56	MG	1H	3339	1/1	1.00	0.02	70,70,70,70	0
56	MG	1H	3370	1/1	1.00	0.01	76,76,76,76	0
56	MG	14	3346	1/1	1.00	0.01	64,64,64,64	0
56	MG	1H	3371	1/1	1.00	0.02	63,63,63,63	0
56	MG	1H	3394	1/1	1.00	0.05	60,60,60,60	0
56	MG	1H	3351	1/1	1.00	0.02	73,73,73,73	0
56	MG	1H	3340	1/1	1.00	0.03	58,58,58,58	0
56	MG	14	3351	1/1	1.00	0.02	65,65,65,65	0
56	MG	1H	3353	1/1	1.00	0.03	53,53,53,53	0
59	ZN	5I	102	1/1	1.00	0.02	99,99,99,99	0
56	MG	1H	3426	1/1	1.00	0.03	54,54,54,54	0
56	MG	1H	3375	1/1	1.00	0.02	67,67,67,67	0
56	MG	14	3312	1/1	1.00	0.05	70,70,70,70	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

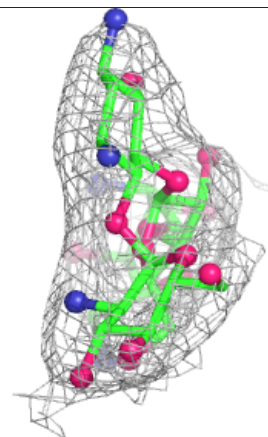
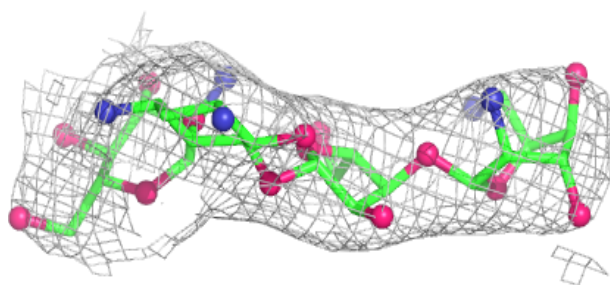
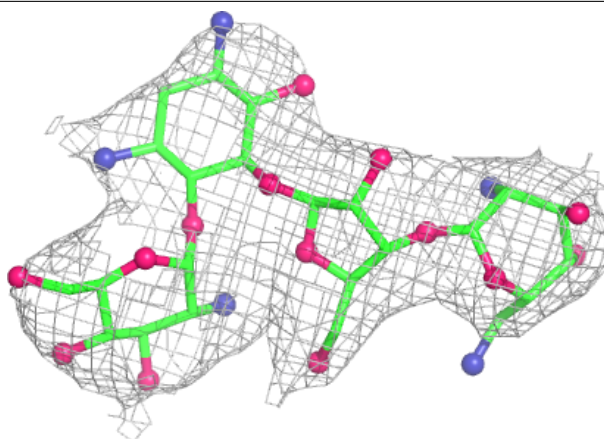
Electron density around PAR 13 1730:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PAR 1G 1681:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.