Full wwPDB EM Validation Report (i)

Nov 19, 2022 – 07:02 PM EST

PDB ID	:	4V4B
EMDB ID	:	EMD-1067
Title	:	Structure of the ribosomal 80S-eEF2-sordarin complex from yeast obtained by docking atomic models for RNA and protein components into a 11.7 A cryo-EM map.
Authors	:	Spahn, C.M.; Gomez-Lorenzo, M.G.; Grassucci, R.A.; Jorgensen, R.; Andersen, G.R.; Beckmann, R.; Penczek, P.A.; Ballesta, J.P.G.; Frank, J.
Deposited on	:	2004-01-06
Resolution	:	11.70 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

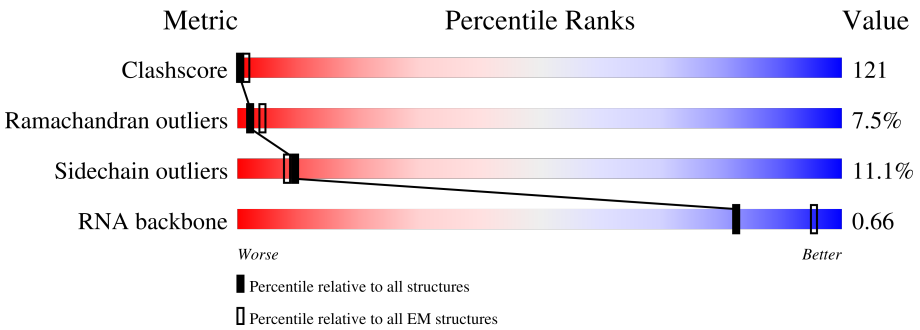
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 11.70 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)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826
RNA backbone	4643	859

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1507	11% 25% 57% 12% • •
2	AT	842	50% 62% 33% • •
3	AB	185	36% 23% 69% 7% •
4	AC	192	58% 27% 60% 11% • •
5	AD	179	42% 18% 72% 9% •
6	AE	149	68% 24% 70% 5%
7	AG	150	29% 25% 67% 8%

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Mol	Chain	Length	Quality of chain
8	AH	129	84% 19% 71% 8% •
9	AI	142	32% 13% 70% 12% • •
10	AJ	100	49% 12% 70% 13% • •
11	AK	136	43% 22% 64% • • 8%
12	AL	118	90% 19% 71% 8% •
13	AM	132	32% 14% 81% 5% •
14	AN	36	47% 11% 61% 8% 19%
15	AO	65	35% 23% 68% 9%
16	AQ	76	67% 24% 72% •
17	AS	80	10% 9% 82% 9%
18	B3	2999	15% 33% 52% 9% • 5%
19	B4	125	6% 22% 61% 12% • •
20	BA	217	85% 20% 72% 6% • •
21	BB	253	82% 10% 61% 21% • •
22	BC	386	40% 8% 63% 19% • 7%
23	BD	361	29% 6% 49% 13% • 29%
24	BE	222	15% 5% 71% 19% 5%
25	BF	162	77% 11% 65% 22% • •
26	BG	119	17% 10% 66% 21% •
27	BH	191	45% 9% 55% 26% • 7%
28	BI	168	54% 9% 64% 21% • •
29	BJ	173	35% 9% 61% 21% 5% 5%
30	BK	131	76% 21% 73% • •
31	BL	203	64% 9% 51% 29% 7% •
32	BM	146	81% 8% 69% 16% 7%

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Mol	Chain	Length	Quality of chain
33	BN	183	32% · 52% 21% · 20%
34	BO	120	32% · 72% 21% ·
35	BP	142	58% 8% 62% 19% 10% ·
36	BQ	100	62% 12% 63% 20% · ·
37	BR	137	85% 9% 66% 16% 5% ·
38	BS	56	55% 12% 50% 27% 5% 5%
39	BT	83	43% 8% 60% 23% · 7%
40	BU	126	27% 6% 60% 23% · 9%
41	BV	148	43% 10% 57% 27% · ·
42	B0	130	54% 5% 51% 24% · 16%
43	BW	112	31% 8% 48% 12% · 30%
44	BX	120	13% 7% 31% 8% · 51%
45	BY	87	33% 8% 30% 20% · 40%
46	BZ	105	61% 13% 51% 20% · 13%
47	B9	91	76% 7% 46% 25% · 20%

2 Entry composition (i)

There are 47 unique types of molecules in this entry. The entry contains 146792 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	AA	1466	31507	14026	5840	10176	1465	0	0

- Molecule 2 is a protein called Elongation factor 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	AT	819	6375	4057	1086	1202	30	0	0

- Molecule 3 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	AB	185	1438	919	261	256	2	0	0

- Molecule 4 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	AC	188	1469	929	271	263	6	0	0

- Molecule 5 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	AD	178	1424	893	271	259	1	0	0

- Molecule 6 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	AE	149	1099	691	206	200	2	0	0

- Molecule 7 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	AG	150	1161	714	229	215	3	0	0

- Molecule 8 is a protein called 40S ribosomal protein S22.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	AH	127	1004	640	183	178	3	0	0

- Molecule 9 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
9	AI	139	1094	700	201	193	0	0

- Molecule 10 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	AJ	97	777	492	141	143	1	0	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AJ	?	-	VAL	deletion	UNP P38701

- Molecule 11 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	AK	125	925	566	181	175	3	0	0

- Molecule 12 is a protein called 40S ribosomal protein S23.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	AL	118	906	579	166	159	2	0	0

- Molecule 13 is a protein called 40S ribosomal protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	AM	131	1084	675	218	189	2	0	0

- Molecule 14 is a protein called 40S ribosomal protein S29-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	AN	29	235	141	48	42	4	0	0

- Molecule 15 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
15	AO	65	552	353	107	91	1	0	0

- Molecule 16 is a protein called 40S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
16	AQ	76	618	396	120	100	2	0	0

- Molecule 17 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
17	AS	80	622	398	110	108	6	0	0

- Molecule 18 is a RNA chain called 5.8S/25S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
18	B3	2863	59964	26726	11030	19346	2862	0	69

There are 144 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B3	73	C	U	conflict	GB 3377778
B3	74	A	G	conflict	GB 3377778
B3	103	U	C	conflict	GB 3377778
B3	104	G	A	conflict	GB 3377778
B3	?	-	U	deletion	GB 3377778
B3	?	-	C	deletion	GB 3377778

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Chain	Residue	Modelled	Actual	Comment	Reference
B3	130	C	-	insertion	GB 3377778
B3	131B	U	-	insertion	GB 3377778
B3	200	U	C	conflict	GB 3377778
B3	300	C	U	conflict	GB 3377778
B3	301	G	C	conflict	GB 3377778
B3	318	C	U	conflict	GB 3377778
B3	350	C	G	conflict	GB 3377778
B3	351	G	A	conflict	GB 3377778
B3	363	A	C	conflict	GB 3377778
B3	364	C	U	conflict	GB 3377778
B3	560	C	U	conflict	GB 3377778
B3	574	C	G	conflict	GB 3377778
B3	575	G	A	conflict	GB 3377778
B3	582	C	U	conflict	GB 3377778
B3	583	G	C	conflict	GB 3377778
B3	653	C	U	conflict	GB 3377778
B3	972	C	-	insertion	GB 3377778
B3	973	U	-	insertion	GB 3377778
B3	974	A	-	insertion	GB 3377778
B3	976Z	G	-	insertion	GB 3377778
B3	976	G	-	insertion	GB 3377778
B3	977	G	-	insertion	GB 3377778
B3	978	G	-	insertion	GB 3377778
B3	979	G	-	insertion	GB 3377778
B3	980	C	-	insertion	GB 3377778
B3	981	C	-	insertion	GB 3377778
B3	982	C	-	insertion	GB 3377778
B3	983	A	-	insertion	GB 3377778
B3	984	C	-	insertion	GB 3377778
B3	985	C	-	insertion	GB 3377778
B3	986	A	-	insertion	GB 3377778
B3	987	G	-	insertion	GB 3377778
B3	988	C	-	insertion	GB 3377778
B3	989	C	-	insertion	GB 3377778
B3	990	U	-	insertion	GB 3377778
B3	991	A	-	insertion	GB 3377778
B3	992	C	-	insertion	GB 3377778
B3	993	C	-	insertion	GB 3377778
B3	994	A	-	insertion	GB 3377778
B3	995	A	-	insertion	GB 3377778
B3	1026	C	U	conflict	GB 3377778
B3	1162	U	G	conflict	GB 3377778

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Chain	Residue	Modelled	Actual	Comment	Reference
B3	1165	U	G	conflict	GB 3377778
B3	1166	G	A	conflict	GB 3377778
B3	1180	C	U	conflict	GB 3377778
B3	1182	U	C	conflict	GB 3377778
B3	1184	A	C	conflict	GB 3377778
B3	1186	U	C	conflict	GB 3377778
B3	1190	A	G	conflict	GB 3377778
B3	1191	G	A	conflict	GB 3377778
B3	1193	G	A	conflict	GB 3377778
B3	1194	U	A	conflict	GB 3377778
B3	1206	C	U	conflict	GB 3377778
B3	1320	U	C	conflict	GB 3377778
B3	1326	U	C	conflict	GB 3377778
B3	1329	A	G	conflict	GB 3377778
B3	1331	A	G	conflict	GB 3377778
B3	1337	A	G	conflict	GB 3377778
B3	1479	A	G	conflict	GB 3377778
B3	1480	U	A	conflict	GB 3377778
B3	1496	G	A	conflict	GB 3377778
B3	1587	U	A	conflict	GB 3377778
B3	1669	A	G	conflict	GB 3377778
B3	1670	G	A	conflict	GB 3377778
B3	1949	C	G	conflict	GB 3377778
B3	1950	C	G	conflict	GB 3377778
B3	1959	A	G	conflict	GB 3377778
B3	1962	G	C	conflict	GB 3377778
B3	1963	G	C	conflict	GB 3377778
B3	1966	C	U	conflict	GB 3377778
B3	2137	U	A	conflict	GB 3377778
B3	2139	U	G	conflict	GB 3377778
B3	3145	G	-	insertion	GB 3377778
B3	2146	G	-	insertion	GB 3377778
B3	2147	G	-	insertion	GB 3377778
B3	2148	G	-	insertion	GB 3377778
B3	2149	A	-	insertion	GB 3377778
B3	2150	U	-	insertion	GB 3377778
B3	2151	G	-	insertion	GB 3377778
B3	2152	C	-	insertion	GB 3377778
B3	2153	G	-	insertion	GB 3377778
B3	2154	U	-	insertion	GB 3377778
B3	2155	A	-	insertion	GB 3377778
B3	2156	G	-	insertion	GB 3377778

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Chain	Residue	Modelled	Actual	Comment	Reference
B3	2157	G	-	insertion	GB 3377778
B3	2158	A	-	insertion	GB 3377778
B3	2159	U	-	insertion	GB 3377778
B3	2160	A	-	insertion	GB 3377778
B3	2161	G	-	insertion	GB 3377778
B3	2162	G	-	insertion	GB 3377778
B3	2163	U	-	insertion	GB 3377778
B3	2164	G	-	insertion	GB 3377778
B3	2165	G	-	insertion	GB 3377778
B3	2166	G	-	insertion	GB 3377778
B3	2167	A	-	insertion	GB 3377778
B3	2168	G	-	insertion	GB 3377778
B3	2169	C	-	insertion	GB 3377778
B3	2170	G	-	insertion	GB 3377778
B3	2171	C	-	insertion	GB 3377778
B3	2203	A	-	insertion	GB 3377778
B3	2204	A	-	insertion	GB 3377778
B3	2205	G	-	insertion	GB 3377778
B3	2206	C	-	insertion	GB 3377778
B3	2207	G	-	insertion	GB 3377778
B3	2208	C	-	insertion	GB 3377778
B3	2209	C	-	insertion	GB 3377778
B3	2210	G	-	insertion	GB 3377778
B3	2211	G	-	insertion	GB 3377778
B3	2212	U	-	insertion	GB 3377778
B3	2213	G	-	insertion	GB 3377778
B3	2214	A	-	insertion	GB 3377778
B3	2215	A	-	insertion	GB 3377778
B3	2216	A	-	insertion	GB 3377778
B3	2217	U	-	insertion	GB 3377778
B3	2218	A	-	insertion	GB 3377778
B3	2219	C	-	insertion	GB 3377778
B3	2220	C	-	insertion	GB 3377778
B3	2221	A	-	insertion	GB 3377778
B3	2222	C	-	insertion	GB 3377778
B3	2223	C	-	insertion	GB 3377778
B3	2224	C	-	insertion	GB 3377778
B3	2225	U	-	insertion	GB 3377778
B3	2226	U	-	insertion	GB 3377778
B3	2227	C	-	insertion	GB 3377778
B3	2228	C	-	insertion	GB 3377778
B3	2229	C	-	insertion	GB 3377778

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Chain	Residue	Modelled	Actual	Comment	Reference
B3	2230	C	-	insertion	GB 3377778
B3	2231	G	-	insertion	GB 3377778
B3	2232	G	-	insertion	GB 3377778
B3	2233	C	-	insertion	GB 3377778
B3	2234	U	-	insertion	GB 3377778
B3	2235	G	-	insertion	GB 3377778
B3	2236	G	-	insertion	GB 3377778
B3	2325	C	U	conflict	GB 3377778
B3	2326	U	C	conflict	GB 3377778
B3	2341	G	A	conflict	GB 3377778
B3	2374	A	G	conflict	GB 3377778
B3	2375	G	A	conflict	GB 3377778

- Molecule 19 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
19	B4	122	2600	1160	472	847	121	0	0

- Molecule 20 is a protein called 60S ribosomal protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	BA	213	1682	1074	294	305	9	0	0

- Molecule 21 is a protein called 60S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	BB	244	1855	1156	375	323	1	0	0

- Molecule 22 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
22	BC	359	2856	1813	541	495	7	0	0

- Molecule 23 is a protein called 60S ribosomal protein L4-B.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
23	BD	256	1942	1221	374	344	3	0	0

- Molecule 24 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
24	BE	222	1799	1140	312	345	2	0	0

- Molecule 25 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
25	BF	161	1298	854	228	215	1	0	0

- Molecule 26 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	BG	119	886	566	152	166	2	0	0

- Molecule 27 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	BH	178	1410	892	259	256	3	0	0

- Molecule 28 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
28	BI	165	1326	834	257	228	7	0	0

- Molecule 29 is a protein called 60S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	BJ	165	1319	826	247	242	4	0	0

- Molecule 30 is a protein called 60S ribosomal protein L12.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	BK	131	978	613	181	182	2	0	0

- Molecule 31 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	BL	194	1637	1022	344	270	1	0	0

- Molecule 32 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	BM	146	1165	754	221	189	1	0	0

- Molecule 33 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
33	BN	147	1163	725	226	212	0	0

- Molecule 34 is a protein called 60S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
34	BO	120	925	595	169	160	1	0	0

- Molecule 35 is a protein called 60S ribosomal protein L19.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
35	BP	141	1145	714	242	189	0	0

- Molecule 36 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
36	BQ	97	795	505	153	134	3	0	0

- Molecule 37 is a protein called 60S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
37	BR	131	977	614	183	173	7	0	0

- Molecule 38 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
38	BS	53	439	282	84	73	0	0

- Molecule 39 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
39	BT	77	614	395	101	116	2	0	0

- Molecule 40 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
40	BU	115	911	574	178	159	0	0

- Molecule 41 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
41	BV	143	1133	723	222	185	3	0	0

- Molecule 42 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
42	B0	109	880	555	176	148	1	0	0

- Molecule 43 is a protein called 60S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
43	BW	78	654	412	132	109	1	0	0

- Molecule 44 is a protein called 60S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
44	BX	59	461	294	82	84	1	0	0

- Molecule 45 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
45	BY	52	402	245	85	68	4	0	0

- Molecule 46 is a protein called 60S ribosomal protein L42.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
46	BZ	91	740	466	150	119	5	0	0

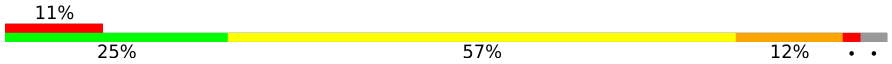
- Molecule 47 is a protein called 60S ribosomal protein L43.

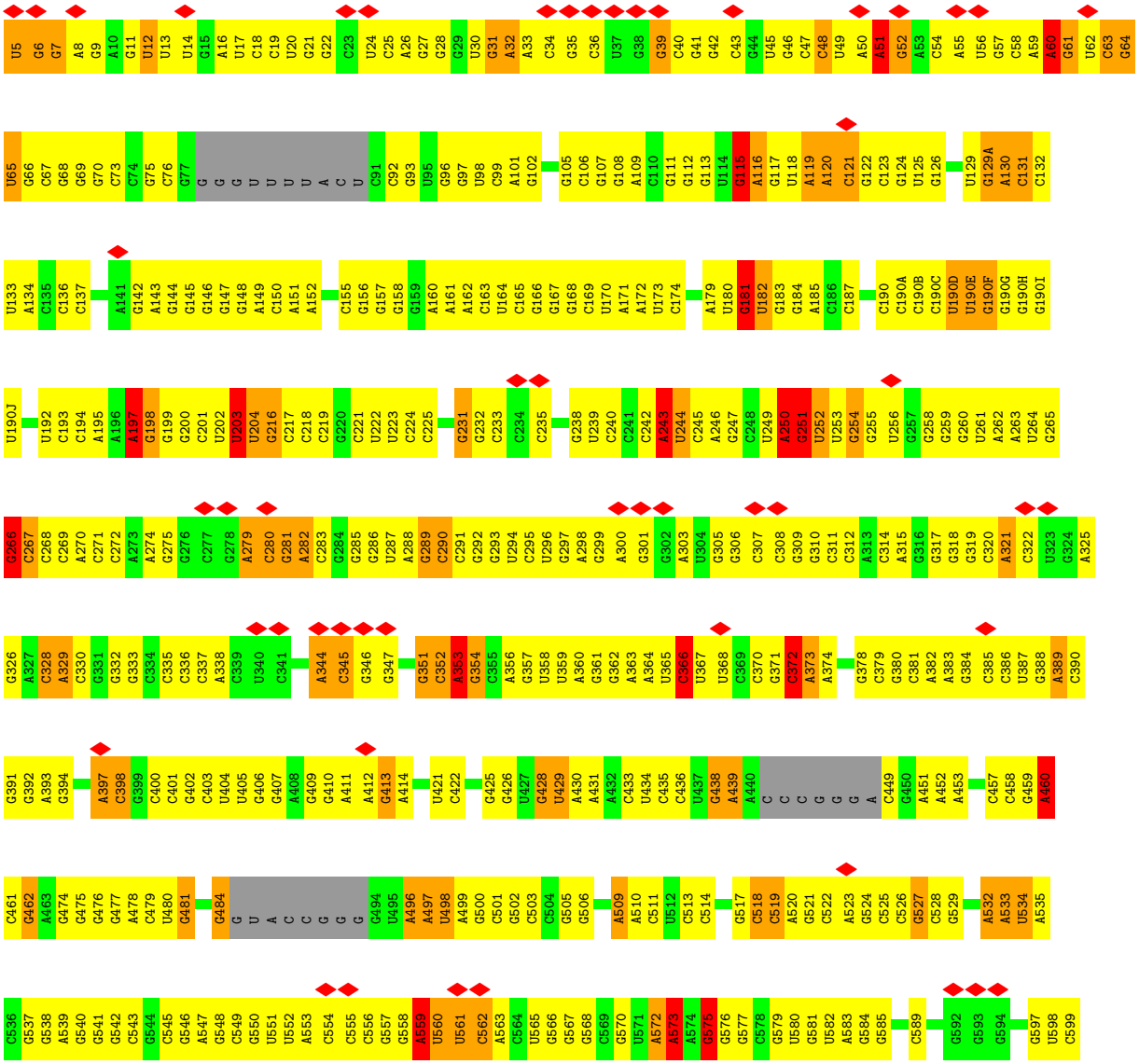
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
47	B9	73	546	338	105	98	5	0	0

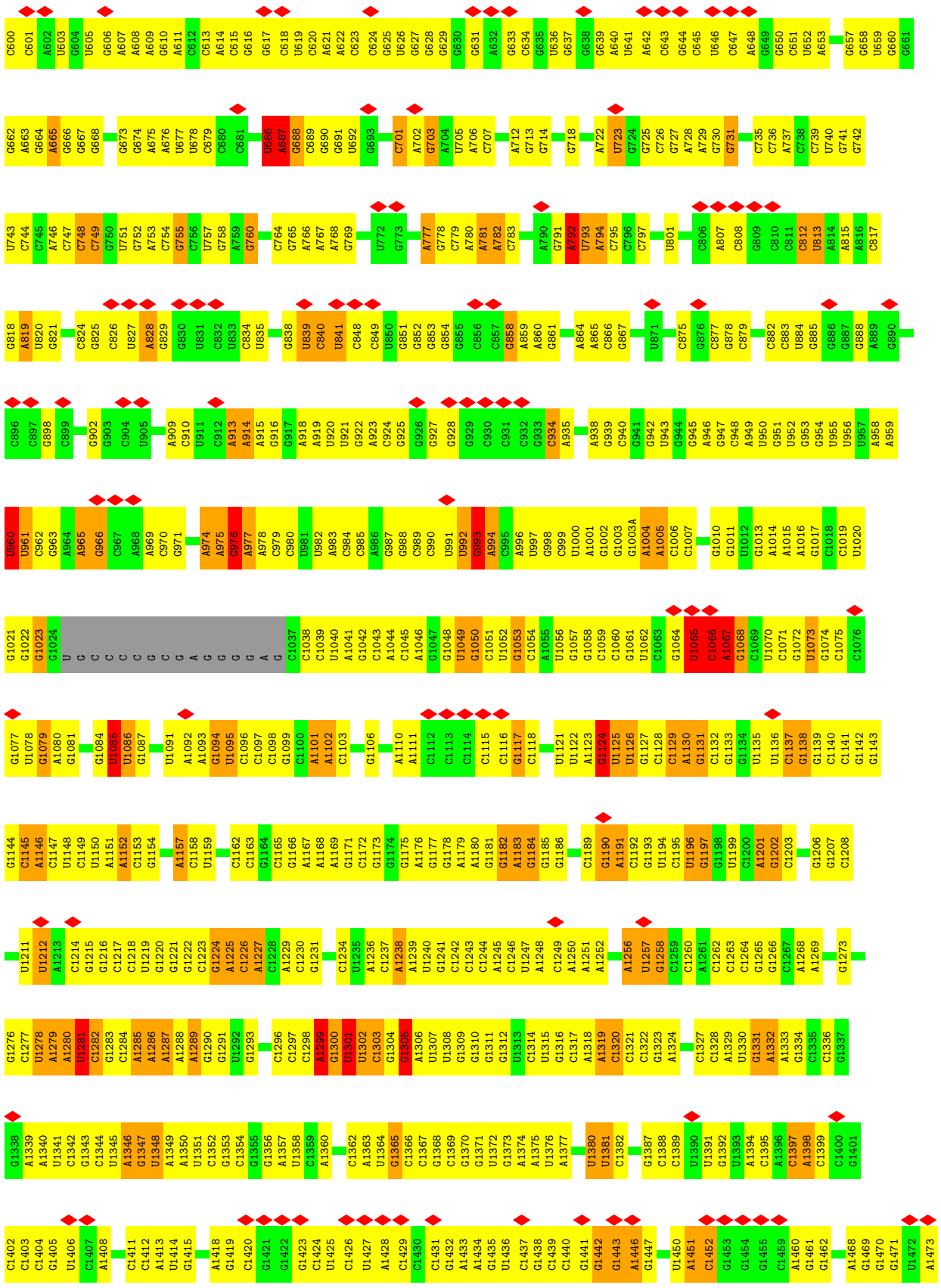
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: 18S ribosomal RNA

Chain AA: 

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G662 A663 G664 A665 G666 G667 G668 G673 G674 A675 A676 U677 U678 C679 C680 C681 U686 A687 G688 C689 G690 G691 U692 G693 C701 A702 G703 A704 U705 A706 C707 A712 G713 G714 G718 A722 U723 G724 G725 C726 G727 A728 A729 G730 G731 C735 C736 A737 C738 C739 U740 G741 G742
U743 C744 C745 A746 C747 C748 C749 G750 U751 G752 A753 C754 G755 C756 U757 G758 A759 G760 C764 G765 A766 A767 A768 G769 U772 G773 A777 G778 C779 A780 A781 A782 C783 A790 G791 A792 U793 A794 C795 C796 C797 U801 C806 A807 C808 G809 C810 C811 C812 U813 A814 A815 A816 C817
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U1211 U1212 A1213 C1214 G1215 G1216 C1217 C1218 U1219 G1220 G1221 G1222 G1223 G1224 A1225 C1226 A1227 C1228 A1229 C1230 G1231 C1234 U1235 A1236 C1237 A1238 A1239 U1240 G1241 C1242 C1243 C1244 A1245 C1246 U1247 A1248 C1249 A1250 A1251 A1252 A1256 U1257 G1258 C1259 C1260 A1261 C1262 C1263 C1264 G1265 G1266 C1267 A1268 A1269 G1273
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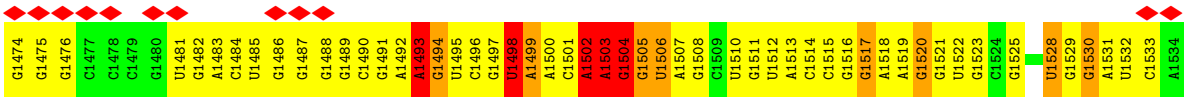
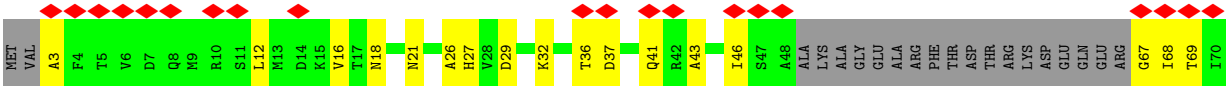
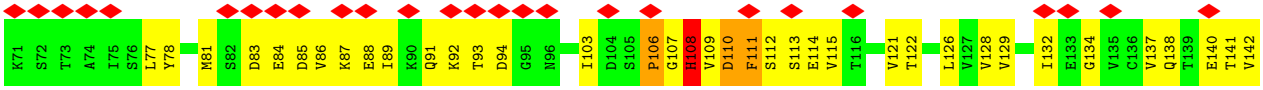
G1338 A1339 A1340 U1341 C1342 G1343 C1344 U1345 A1346 G1347 U1348 A1349 A1350 U1351 C1352 G1353 C1354 G1355 G1356 A1357 U1358 C1359 A1360 C1362 A1363 U1364 G1365 C1366 C1367 G1368 G1369 G1370 G1371 U1372 G1373 A1374 A1375 U1376 A1377 U1380 U1381 C1382 G1387 C1388 C1389 U1390 U1391 G1392 U1393 A1394 C1395 A1396 C1397 A1398 C1399 C1400 G1401
C1402 C1403 C1404 G1405 U1406 C1407 A1408 C1411 C1412 A1413 U1414 G1415 A1418 G1419 C1420 G1421 G1422 G1423 C1424 U1425 C1426 U1427 A1428 C1429 C1430 C1431 G1432 A1433 A1434 G1435 U1436 C1437 G1438 C1439 C1440 G1441 G1442 G1443 A1446 G1447 U1450 A1451 C1452 G1453 G1454 G1455 C1459 A1460 G1461 G1462 A1468 G1469 G1470 G1471 U1472 A1473

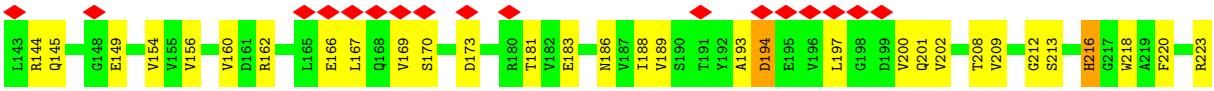


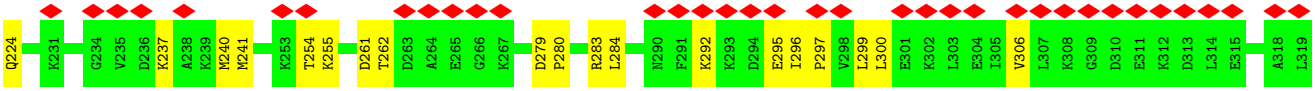
- Molecule 2: Elongation factor 2

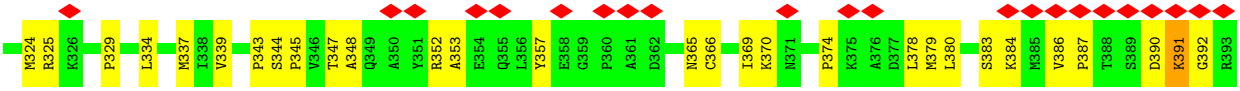
Chain AT:

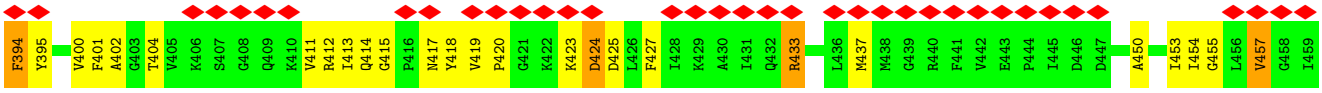


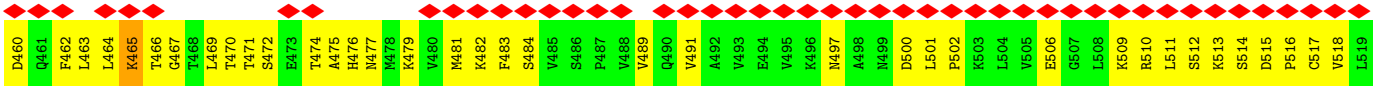


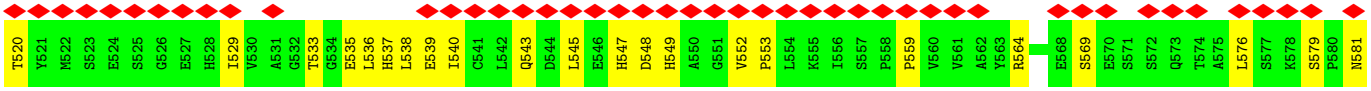


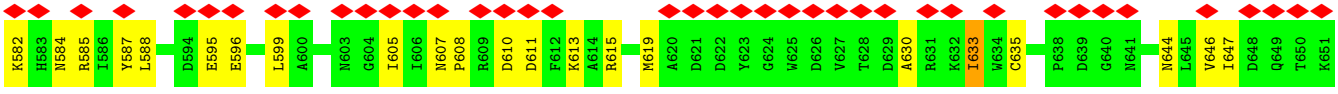


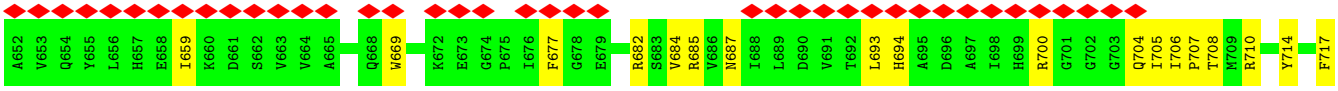


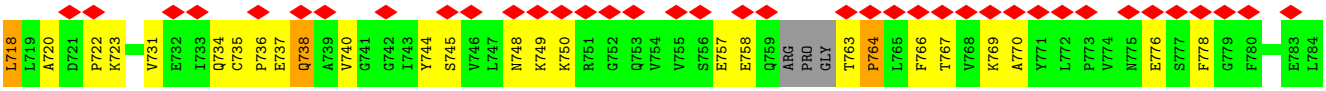


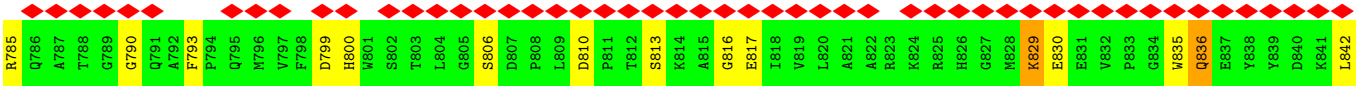






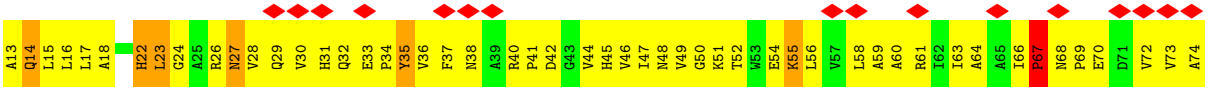


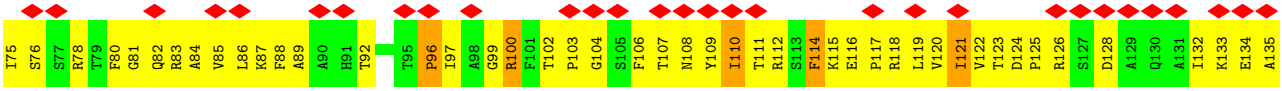


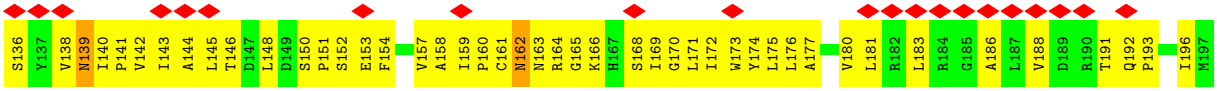


- Molecule 3: 40S ribosomal protein S0-A

Chain AB:

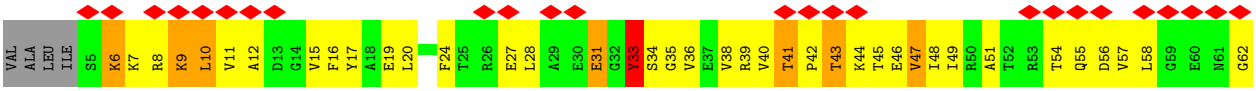


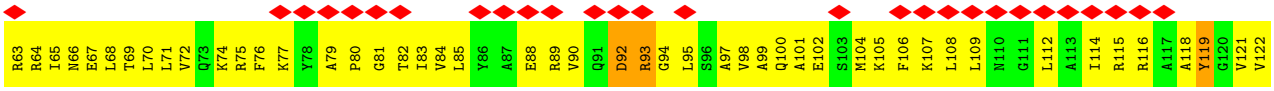


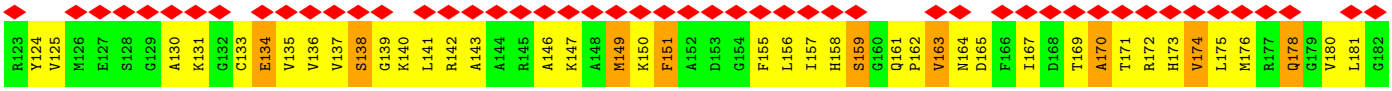


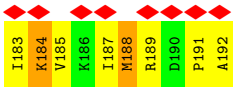
- Molecule 4: 40S ribosomal protein S3

Chain AC:



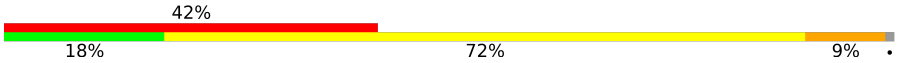


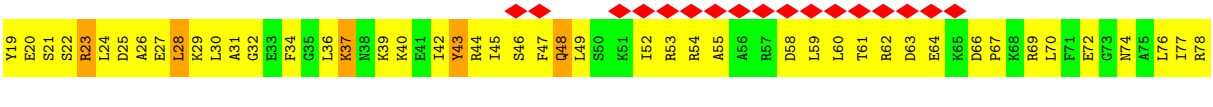


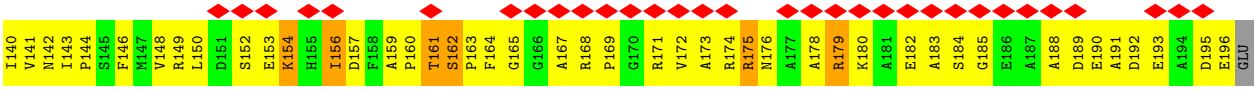


- Molecule 5: 40S ribosomal protein S9-A

Chain AD:

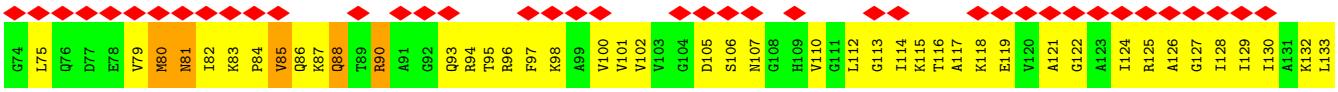


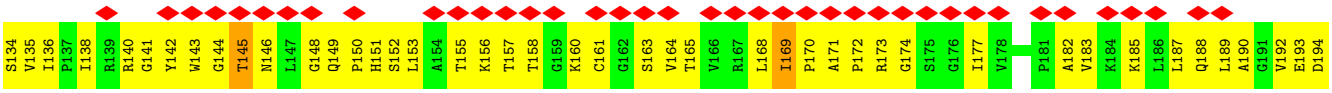




- Molecule 6: 40S ribosomal protein S2

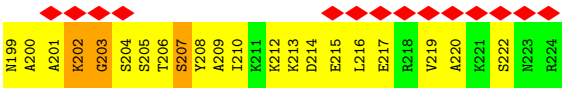
Chain AE:





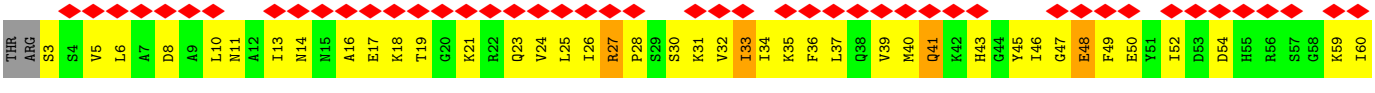
- Molecule 7: 40S ribosomal protein S5

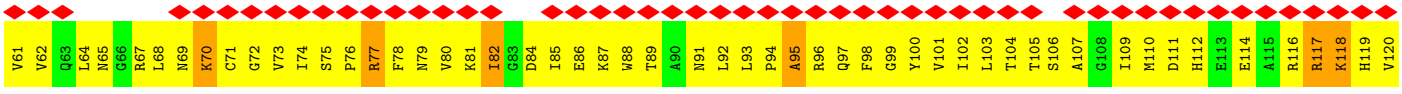
Chain AG:



- Molecule 8: 40S ribosomal protein S22

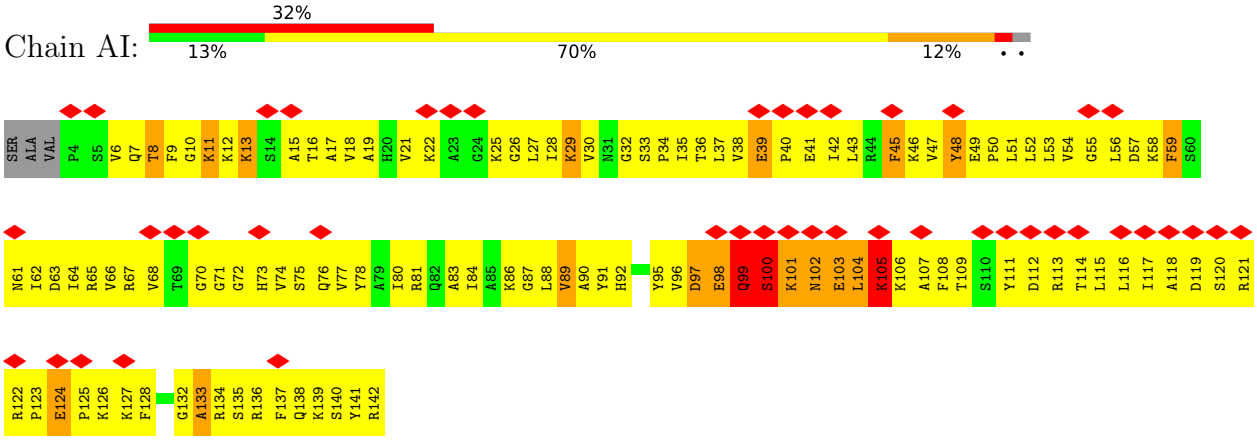
Chain AH:





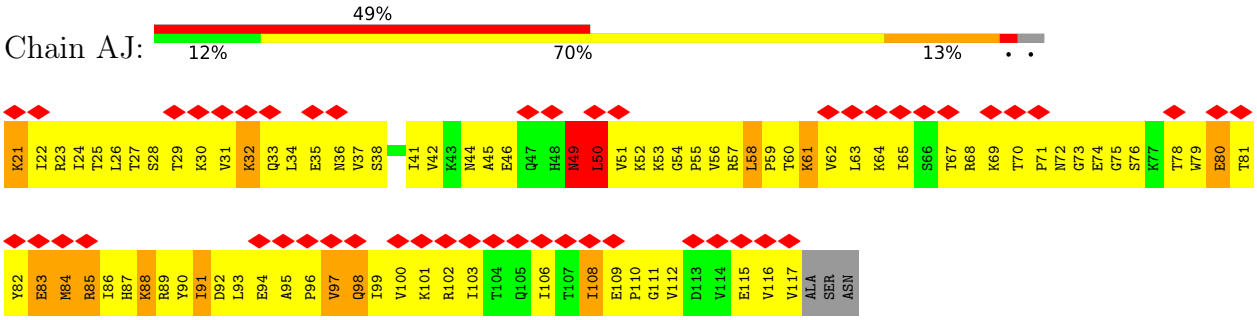
- Molecule 9: 40S ribosomal protein S16

Chain AI:



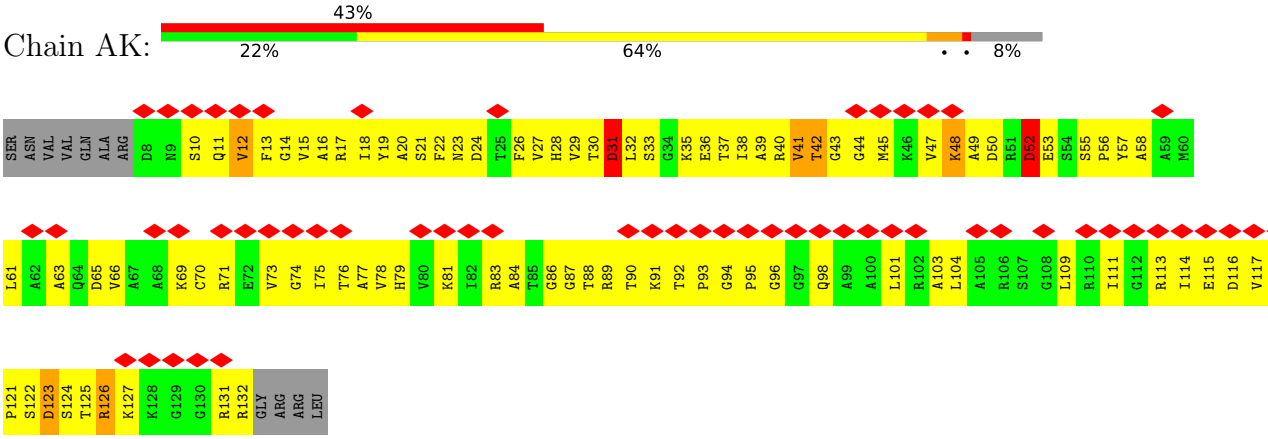
- Molecule 10: 40S ribosomal protein S20

Chain AJ:



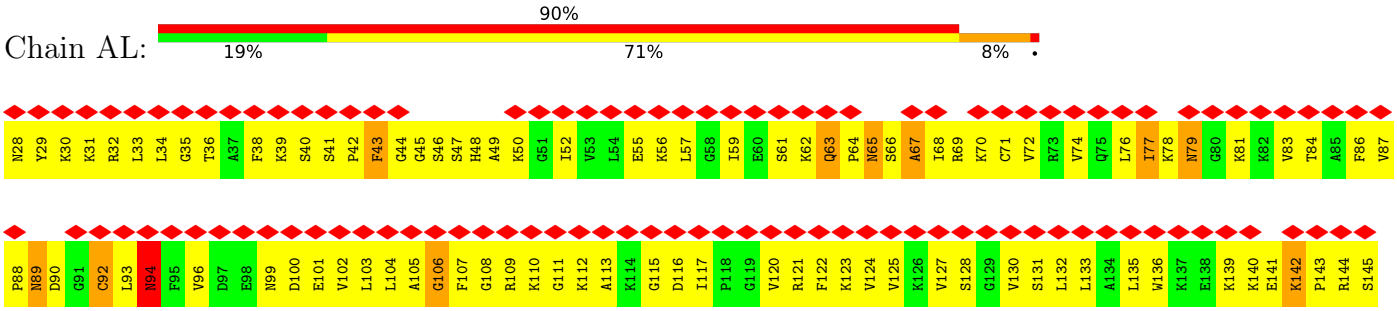
- Molecule 11: 40S ribosomal protein S14-A

Chain AK:



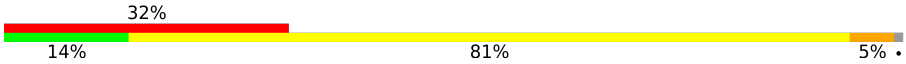
- Molecule 12: 40S ribosomal protein S23

Chain AL:



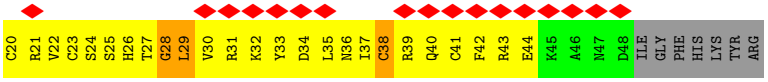
- Molecule 13: 40S ribosomal protein S18

Chain AM:



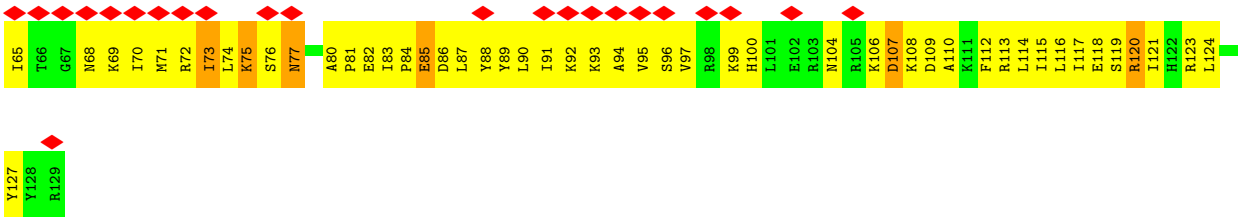
- Molecule 14: 40S ribosomal protein S29-B

Chain AN:



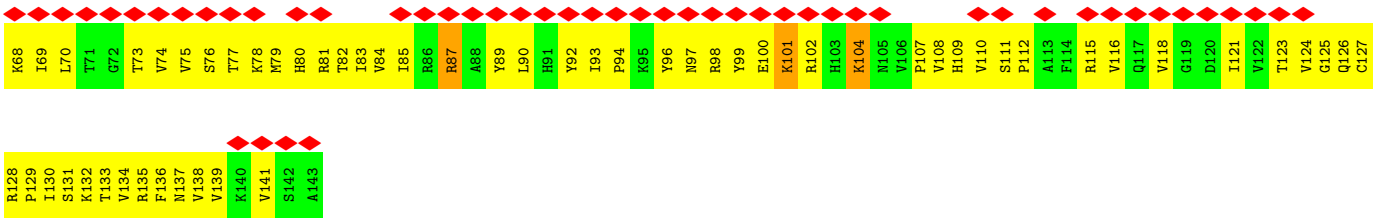
- Molecule 15: 40S ribosomal protein S13

Chain AO:



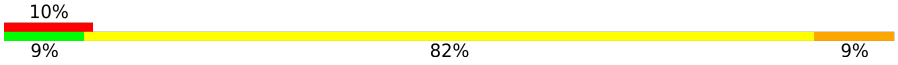
- Molecule 16: 40S ribosomal protein S11

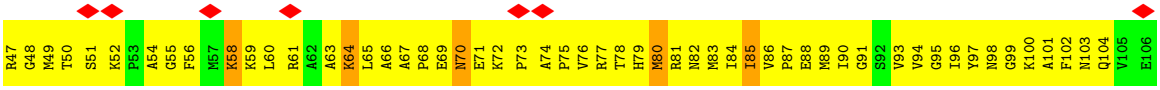
Chain AQ:



- Molecule 17: 40S ribosomal protein S15

Chain AS:





• Molecule 18: 5.8S/25S ribosomal RNA

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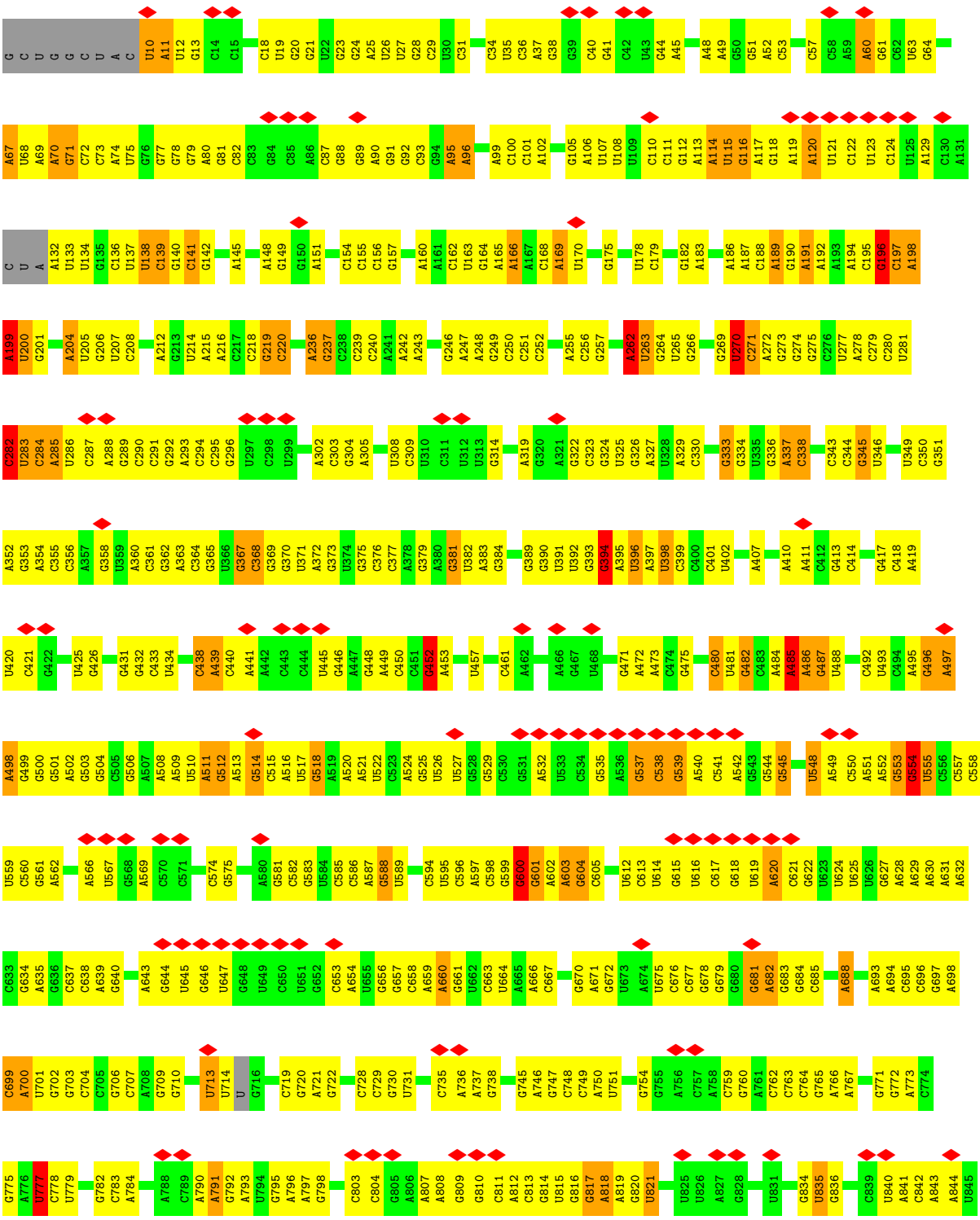

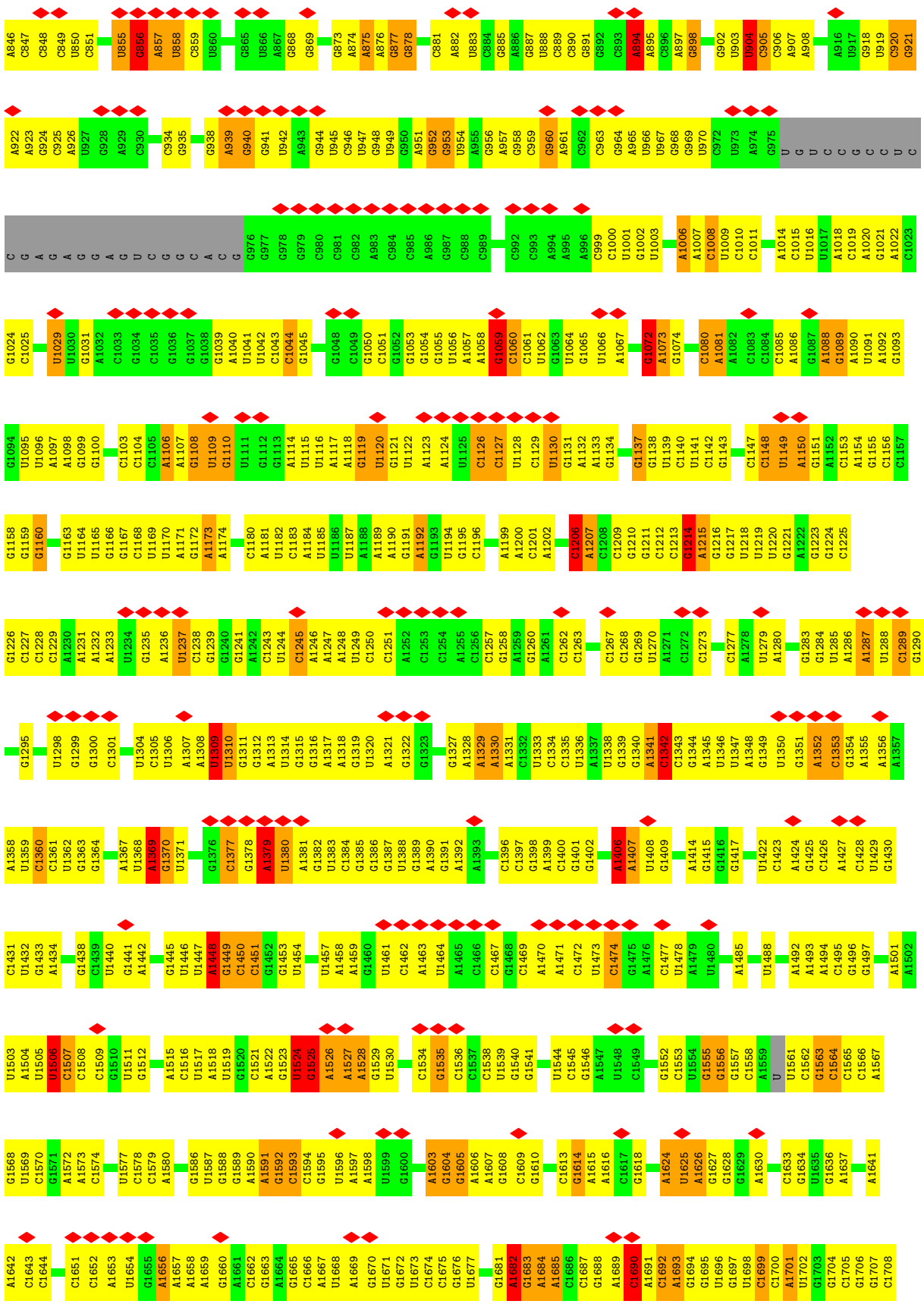
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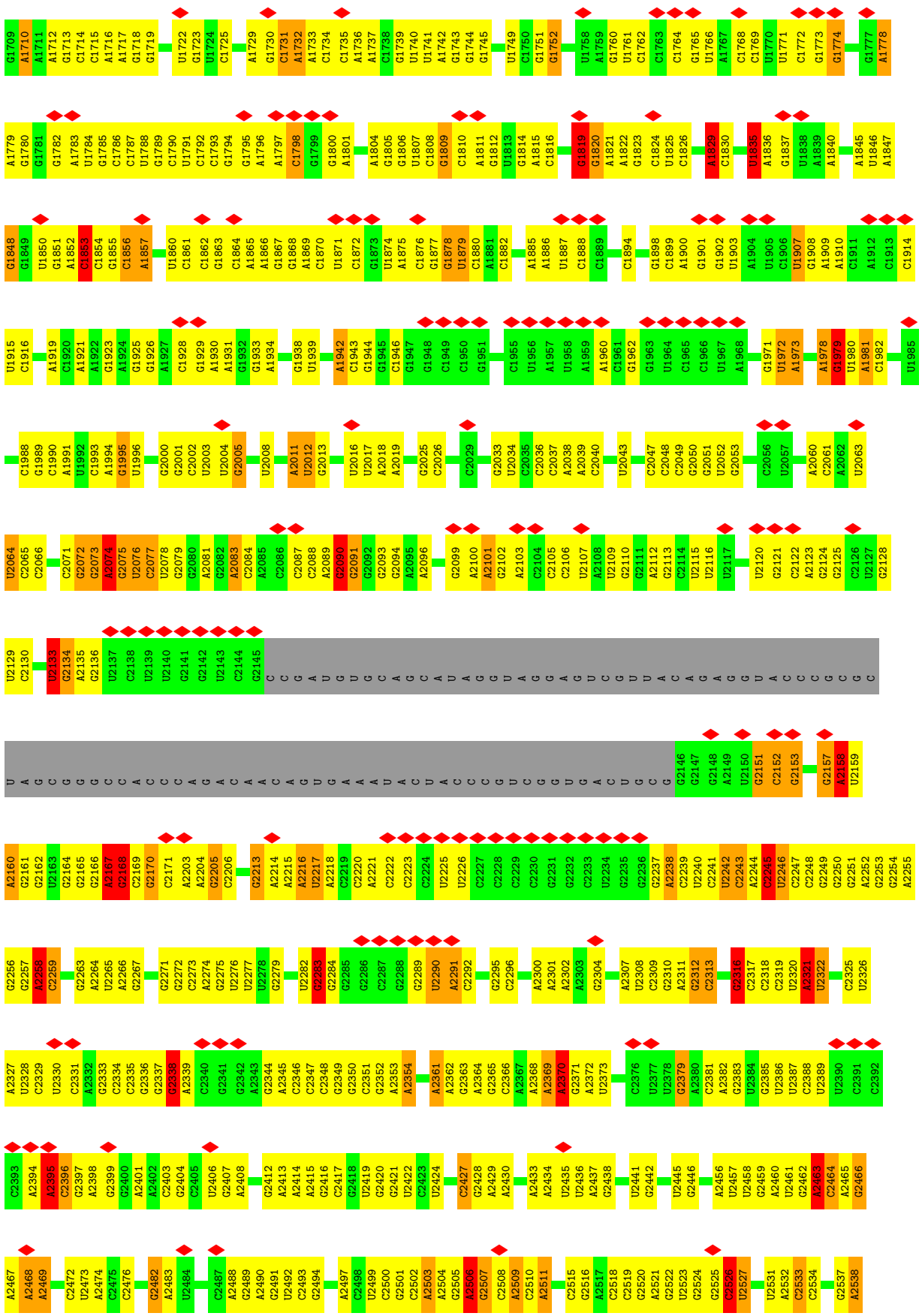
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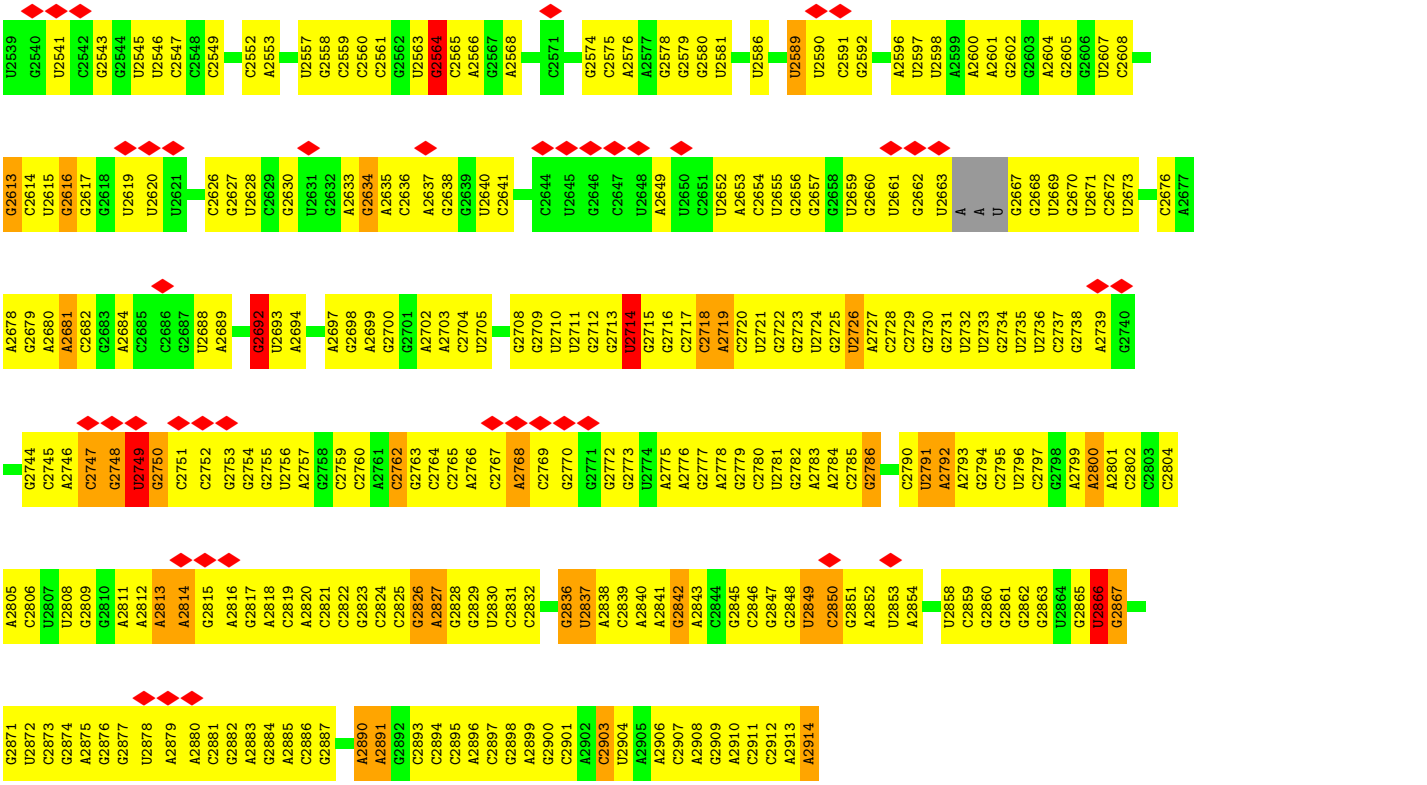

- Molecule 19: 5S RIBOSOMAL RNA

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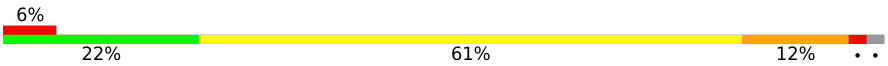
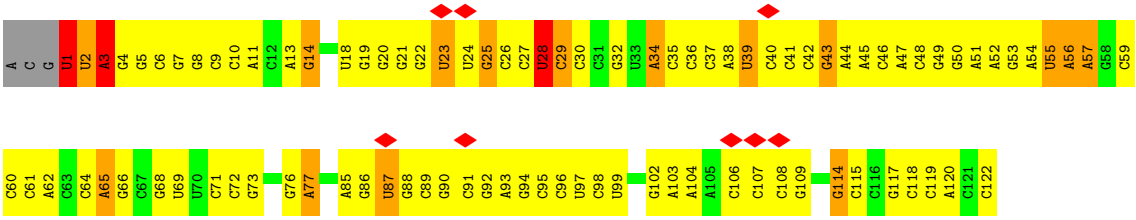
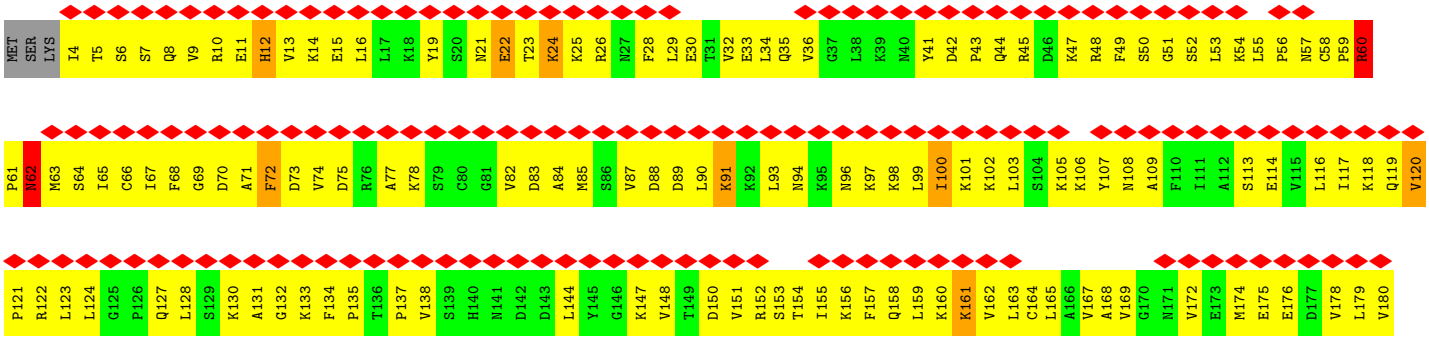




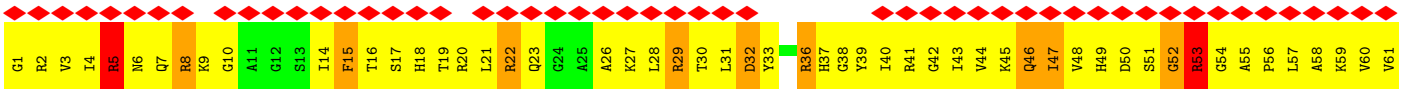
- Molecule 20: 60S ribosomal protein L1

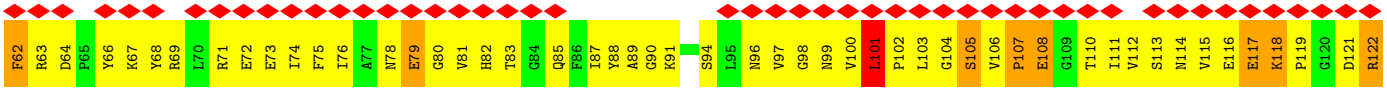
Chain BA:

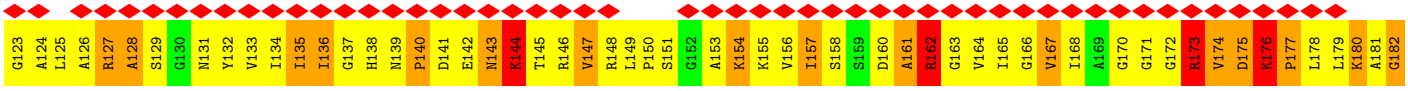


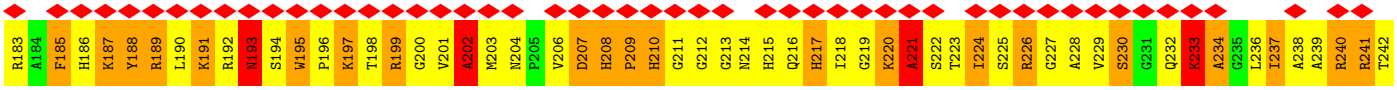
• Molecule 21: 60S ribosomal protein L2

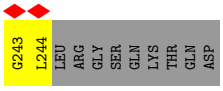
Chain BB:





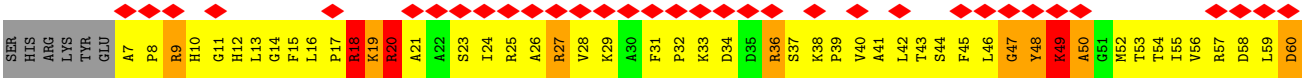


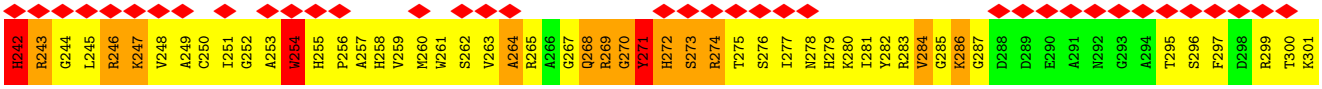


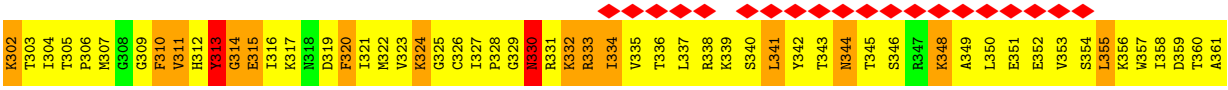


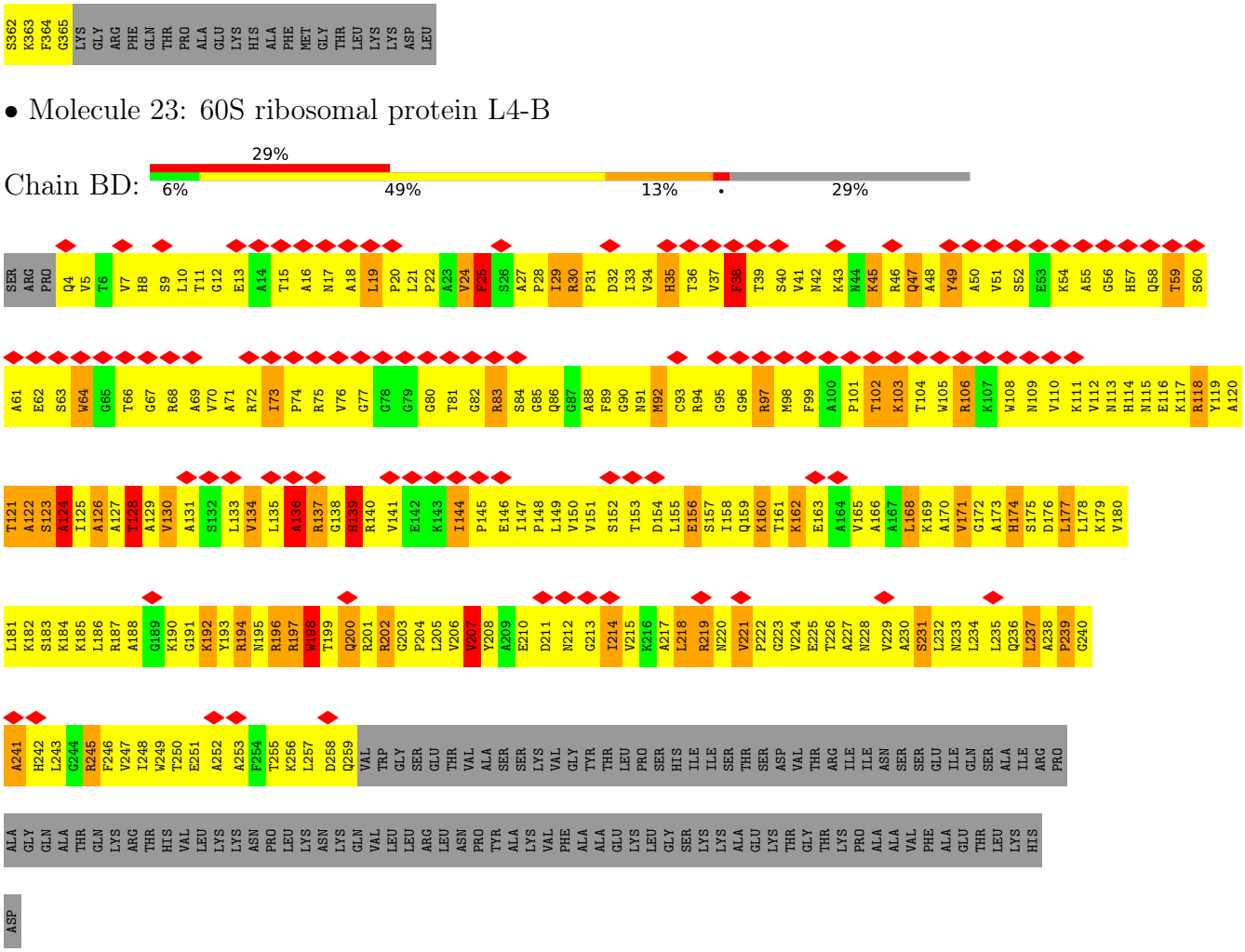
• Molecule 22: 60S ribosomal protein L3

Chain BC:





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• Molecule 23: 60S ribosomal protein L4-B
Chain BD:
29%
6%
49%
13%
29%
SER ARG PRO Q4 V5 T6 V7 H8 S9 L10 T11 G12 E13 A14 T15 A16 N17 A18 L19 P20 L21 P22 A23 V24 F25 S26 A27 P28 I29 R30 P31 D32 I33 V34 H35 T36 V37 F38 T39 S40 V41 N42 K43 N44 K45 R46 Q47 A48 Y49 A50 V51 S52 E53 K54 A55 G56 H57 Q58 T59 S60
A61 E62 S63 W64 G65 T66 G67 R68 A69 V70 A71 R72 I73 P74 R75 V76 G77 G78 G79 G80 T81 G82 R83 S84 G85 Q86 G87 A88 F89 G90 N91 M92 C93 R94 G95 G96 R97 M98 F99 A100 P101 T102 K103 T104 W105 R106 K107 W108 N109 V110 K111 V112 N113 H114 N115 E116 K117 R118 Y119 A120
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L181 K182 S183 K184 K185 L186 R187 A188 G189 K190 G191 K192 Y193 R194 N195 R196 R197 W198 T199 Q200 R201 R202 G203 P204 L205 V206 V207 Y208 A209 E210 D211 N212 G213 I214 V215 K216 A217 L218 R219 N220 V221 P222 G223 V224 E225 T226 A227 N228 V229 A230 S231 L232 N233 L234 L235 Q236 L237 A238 P239 G240
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ASP
• Molecule 24: 60S ribosomal protein L5
Chain BE:
15%
5%
71%
19%
5%
A11 Y12 S13 S14 R15 F16 Q17 T18 P19 F20 R21 R22 R23 R24 E25 G26 K27 T28 D29 Y30 Y31 Q32 R33 K34 R35 L36 V37 T38 Q39 H40 K41 A42 K43 Y44 N45 T46 P47 K48 Y49 R50 L51 V52 V53 R54 F55 T56 N57 K58 D59 I60 I61 C62 Q63 I64 I65 S66 S67 T68 I69 T70
G71 D72 V73 V74 L75 A76 A77 A78 Y79 S80 H81 E82 L83 P84 R85 Y86 G87 I88 T89 H90 G91 L92 T93 N94 W95 A96 A97 A98 Y99 A100 T101 G102 L103 L104 I105 A106 R107 R108 T109 L110 Q111 R112 L113 G114 L115 D116 E117 T118 Y119 K120 G121 V122 E123 E124 V125 E126 G127 E128 Y129 E130
L131 T132 E133 A134 V135 E136 D137 G138 P139 R140 P141 F142 K143 V144 F145 L146 D147 I148 G149 L150 Q151 R152 T153 T154 T155 G156 A157 R158 V159 F160 G161 A162 L163 K164 G165 A166 S167 D168 G169 G170 L171 Y172 V173 P174 H175 S176 E177 N178 R179 F180 P181 G182 W183 D184 F185 E186 T187 E188 E189 I190
D191 P192 E193 L194 L195 R196 S197 Y198 I199 F200 G201 G202 H203 V204 S205 Q206 Y207 M208 E209 E210 L211 A212 D213 D214 D215 E216 E217 R218 F219 S220 E221 L222 F223 K224 G225 Y226 L227 A228 D229 D230 I231 D232
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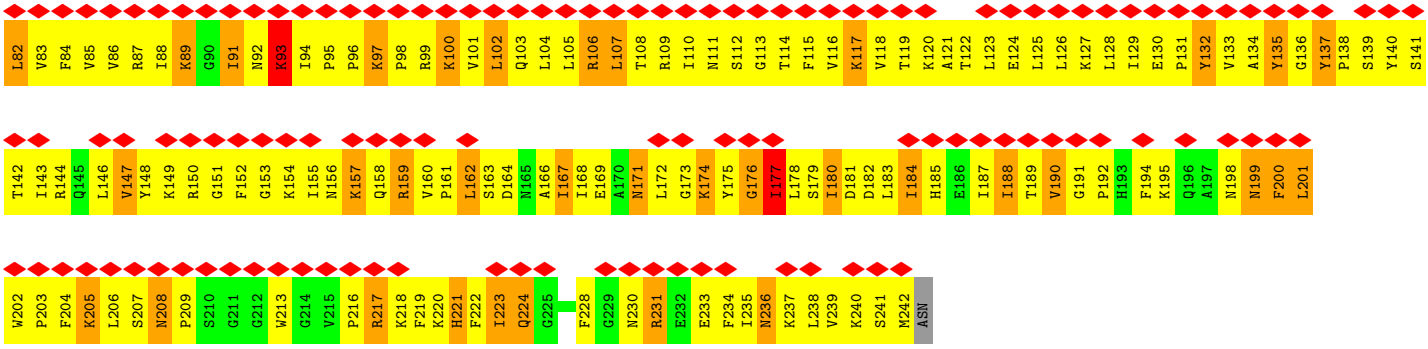
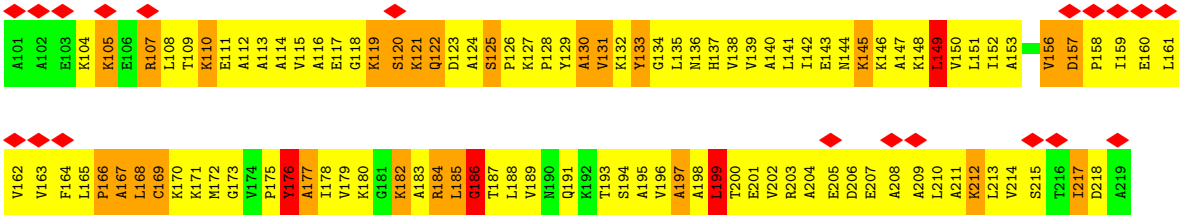
Chain BF:
77%
11%
65%
22%



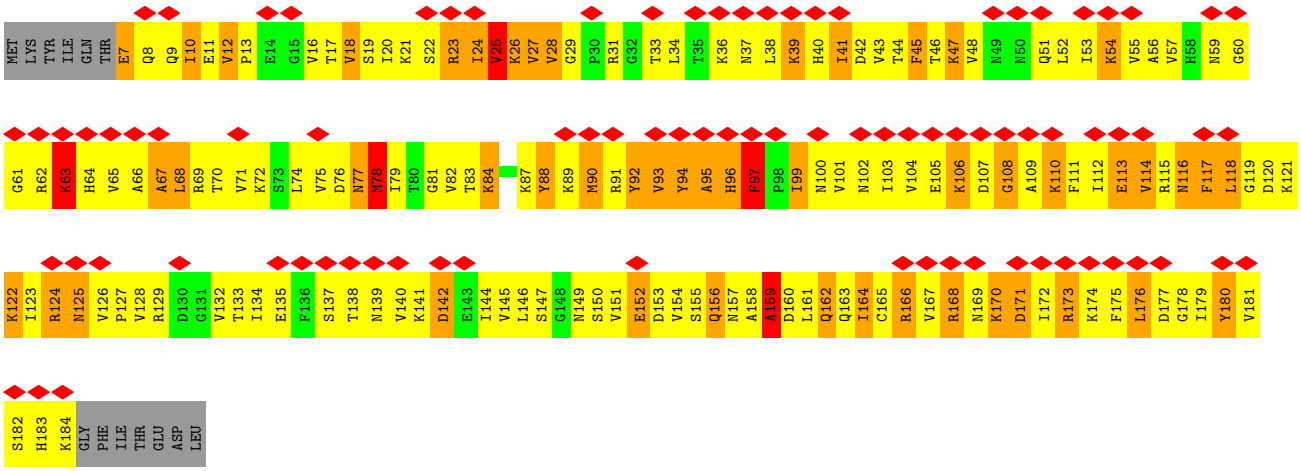
- Molecule 26: 60S ribosomal protein L8-A

Chain BG:



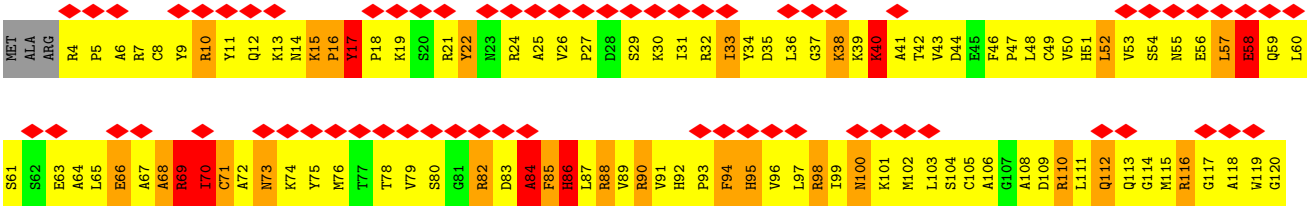
- Molecule 27: 60S ribosomal protein L9-A

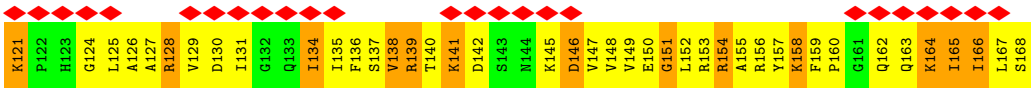
Chain BH:



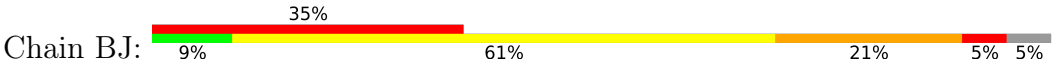
- Molecule 28: 60S ribosomal protein L10

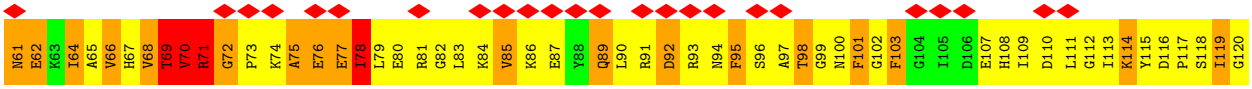
Chain BI:



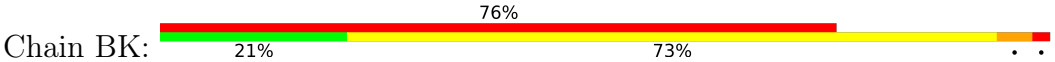


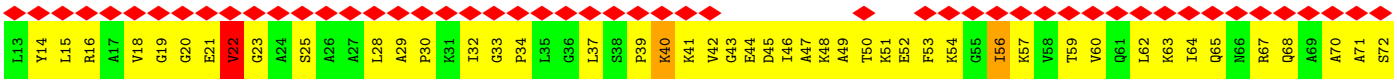
• Molecule 29: 60S ribosomal protein L11



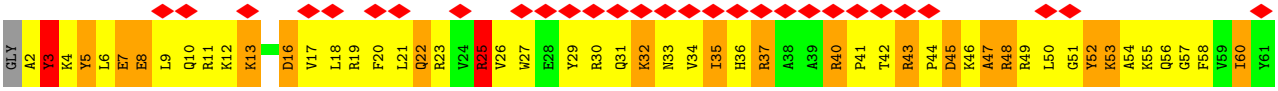


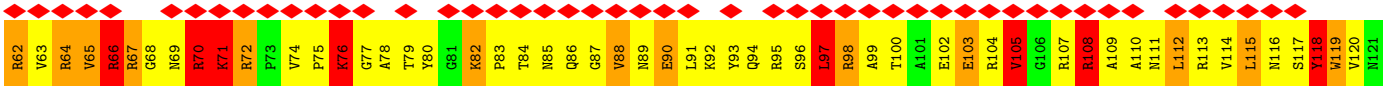
• Molecule 30: 60S ribosomal protein L12





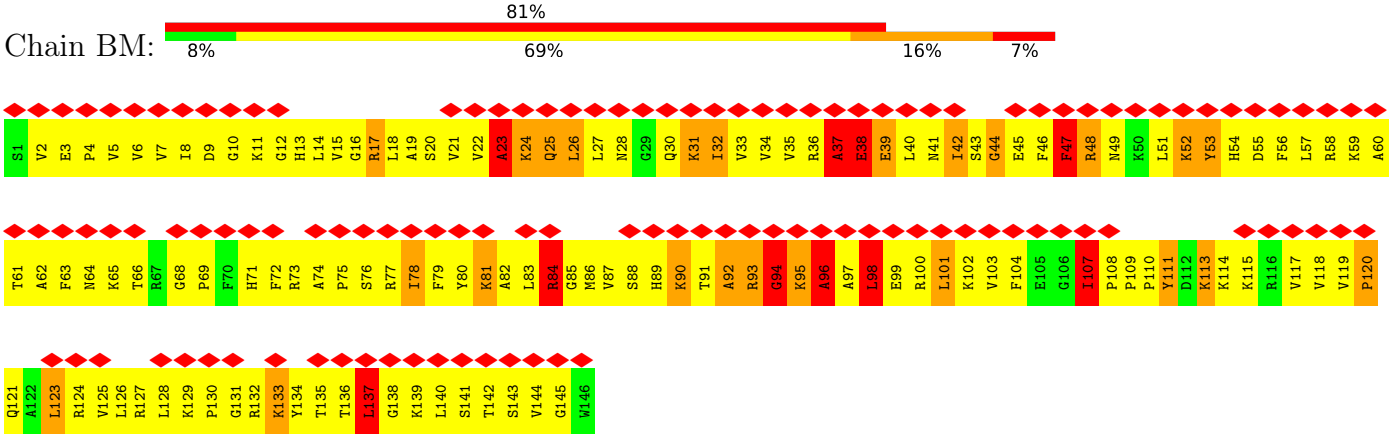
• Molecule 31: 60S ribosomal protein L15-A





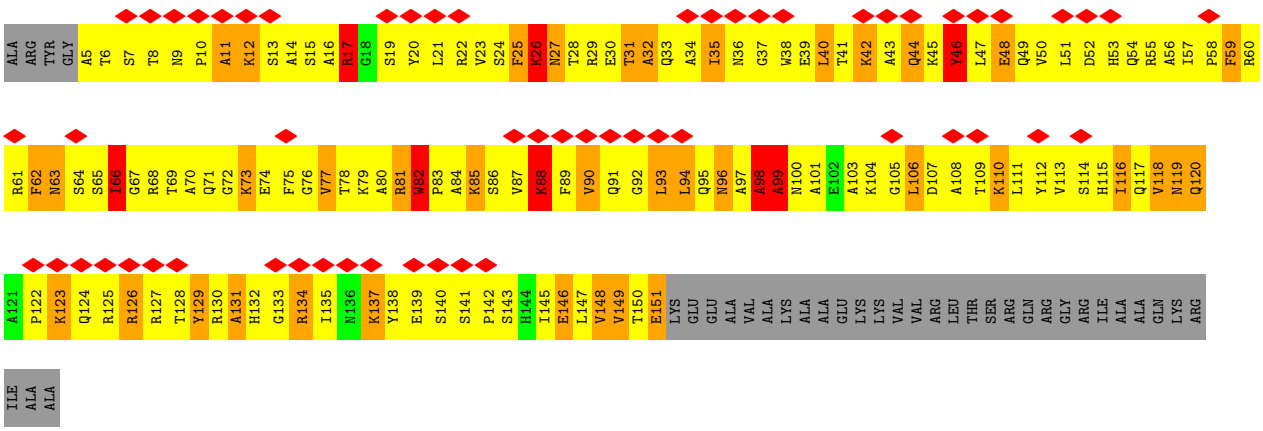
• Molecule 32: 60S ribosomal protein L16-A

Chain BM: 81%



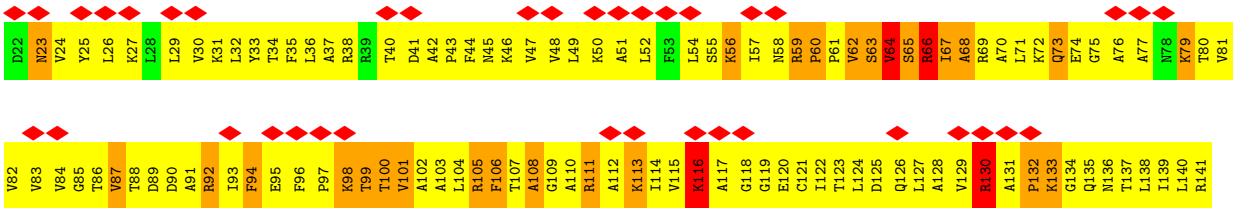
• Molecule 33: 60S ribosomal protein L17-A

Chain BN: 32%



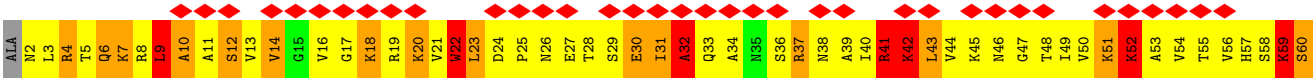
• Molecule 34: 60S ribosomal protein L18

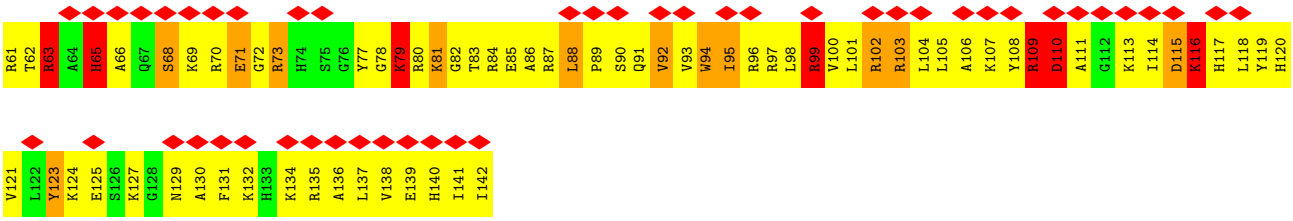
Chain BO: 32%



• Molecule 35: 60S ribosomal protein L19

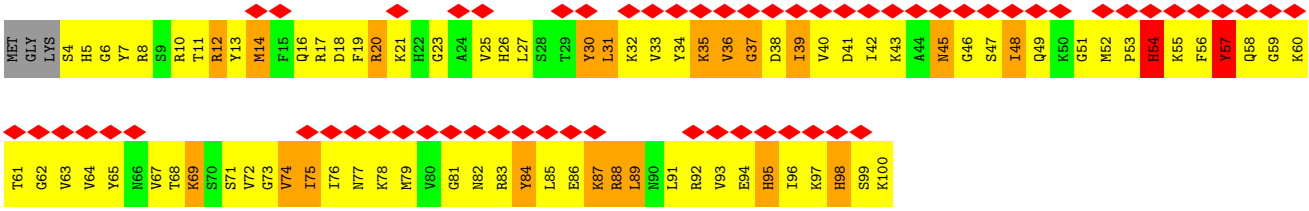
Chain BP: 58%





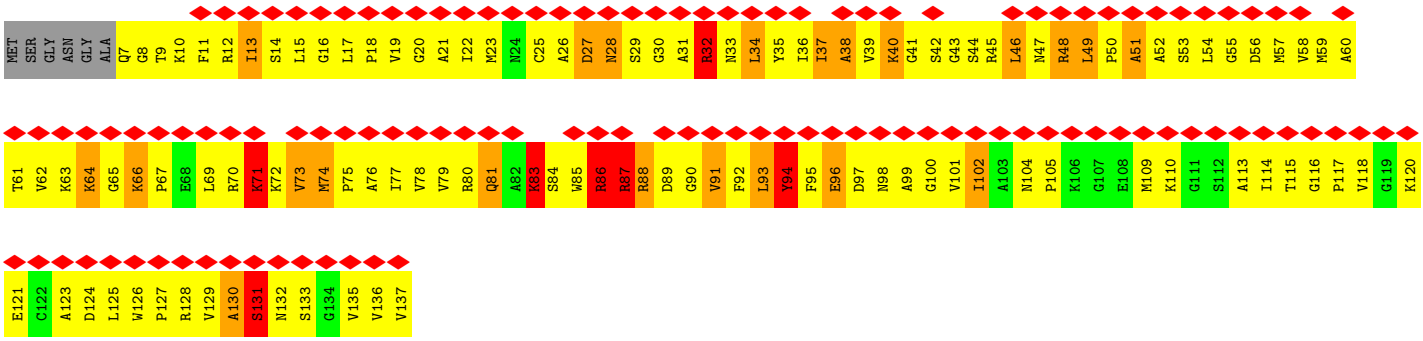
- Molecule 36: 60S ribosomal protein L21-A

Chain BQ:



- Molecule 37: 60S ribosomal protein L23

Chain BR:

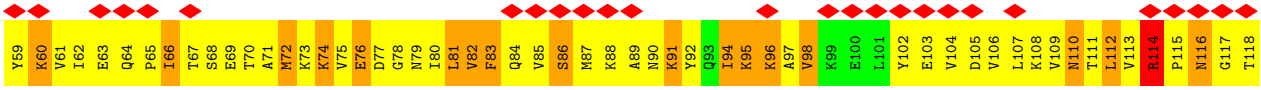


- Molecule 38: 60S ribosomal protein L24-A

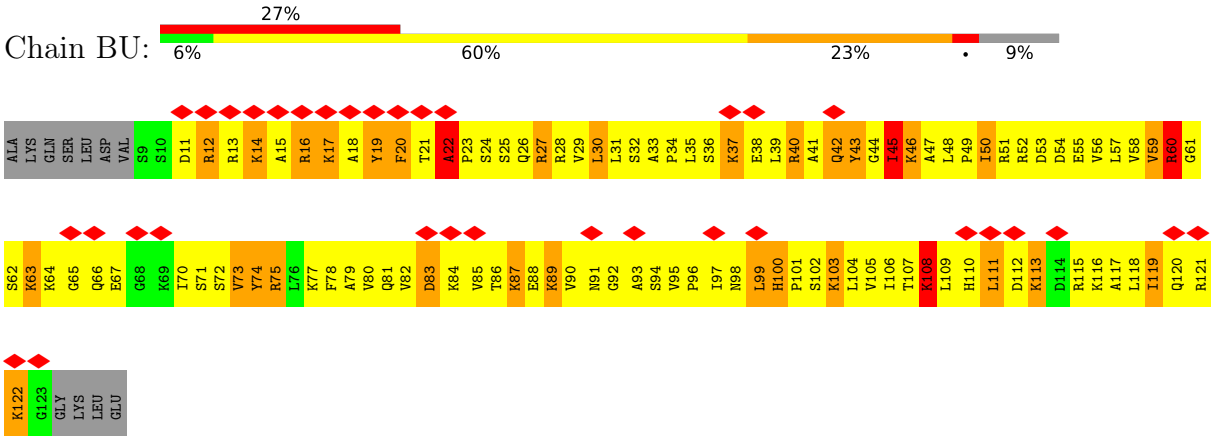
Chain BS:

- Molecule 39: 60S ribosomal protein L25

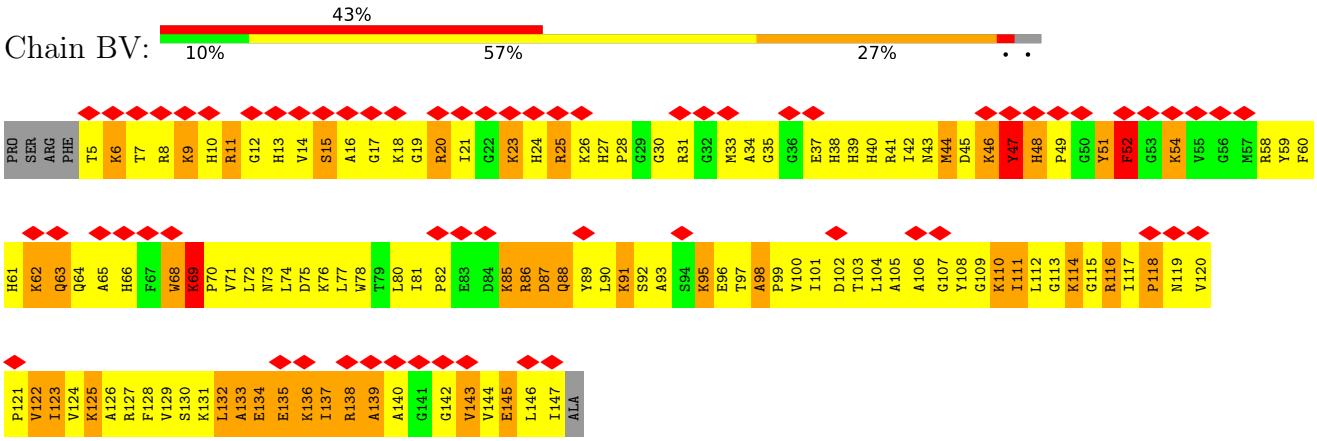
Chain BT:



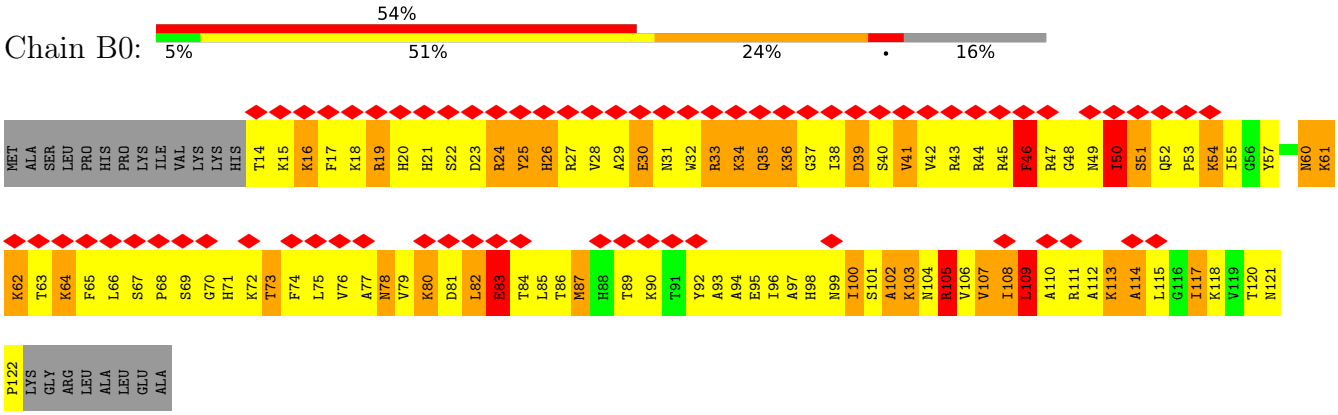
• Molecule 40: 60S ribosomal protein L26-A



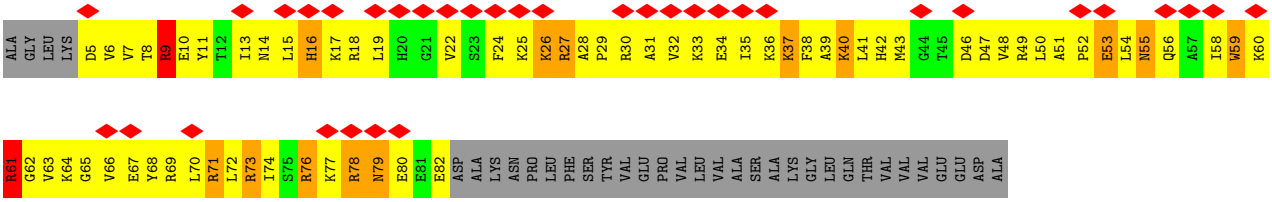
• Molecule 41: 60S ribosomal protein L28



• Molecule 42: 60S ribosomal protein L32

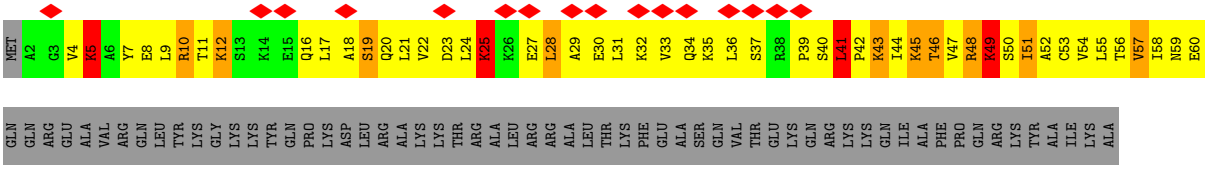


• Molecule 43: 60S ribosomal protein L31



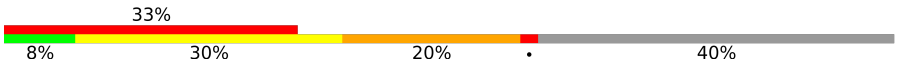
- Molecule 44: 60S ribosomal protein L35

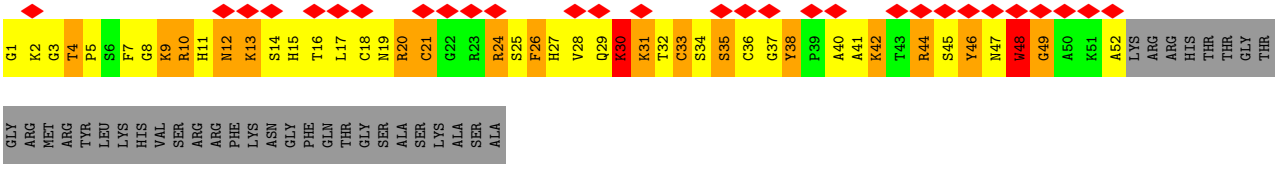
Chain BX:



- Molecule 45: 60S ribosomal protein L37-A

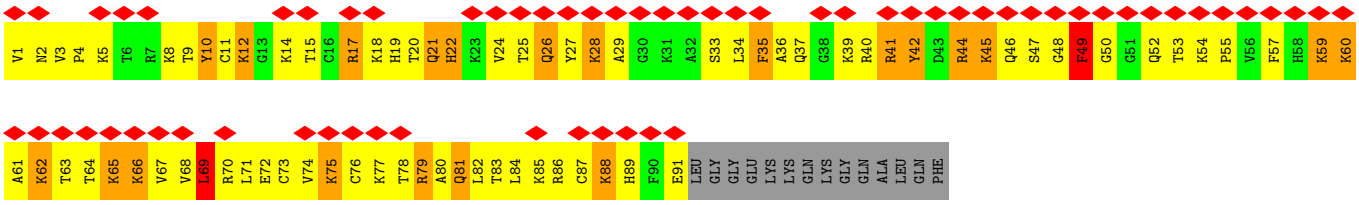
Chain BY:





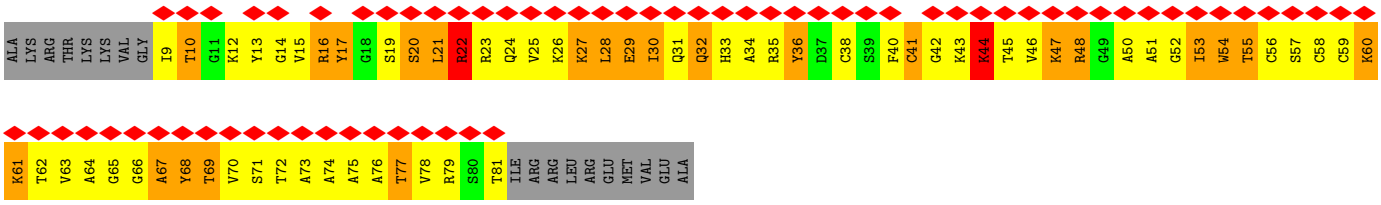
- Molecule 46: 60S ribosomal protein L42

Chain BZ:



- Molecule 47: 60S ribosomal protein L43

Chain B9:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	Not provided	
Resolution determination method	Not provided	
CTF correction method	CTF correction of 3D-maps by Wiener filtration	Depositor
Microscope	FEI TECNAI 20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	15	Depositor
Minimum defocus (nm)	4900	Depositor
Maximum defocus (nm)	1400	Depositor
Magnification	52000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.002	Depositor
Minimum map value	-0.001	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.000	Depositor
Recommended contour level	0.000477	Depositor
Map size (Å)	366.25, 366.25, 366.25	wwPDB
Map dimensions	125, 125, 125	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	2.93, 2.93, 2.93	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AA	0.49	1/35241 (0.0%)	0.77	43/54932 (0.1%)
2	AT	0.31	0/6496	0.59	1/8794 (0.0%)
3	AB	1.00	0/1471	1.13	2/2007 (0.1%)
4	AC	1.04	0/1488	1.19	4/1996 (0.2%)
5	AD	1.06	0/1443	1.21	2/1932 (0.1%)
6	AE	1.03	0/1112	1.17	0/1500
7	AG	1.06	0/1169	1.14	2/1570 (0.1%)
8	AH	0.99	0/1021	1.15	0/1371
9	AI	1.18	5/1114 (0.4%)	1.65	21/1492 (1.4%)
10	AJ	0.99	0/787	1.17	0/1063
11	AK	1.10	0/936	1.28	3/1260 (0.2%)
12	AL	0.99	0/920	1.19	1/1226 (0.1%)
13	AM	1.06	0/1100	1.54	4/1476 (0.3%)
14	AN	1.13	0/237	1.37	0/315
15	AO	1.09	0/560	1.06	1/745 (0.1%)
16	AQ	1.08	0/631	1.15	0/852
17	AS	1.03	0/636	1.27	3/855 (0.4%)
18	B3	0.58	5/67026 (0.0%)	0.79	89/104457 (0.1%)
19	B4	0.36	0/2905	0.75	4/4528 (0.1%)
20	BA	0.91	0/1706	1.12	1/2289 (0.0%)
21	BB	1.27	2/1889 (0.1%)	4.30	39/2539 (1.5%)
22	BC	1.19	3/2921 (0.1%)	3.76	53/3933 (1.3%)
23	BD	1.46	5/1979 (0.3%)	3.13	28/2680 (1.0%)
24	BE	1.23	1/1840 (0.1%)	1.67	35/2487 (1.4%)
25	BF	1.05	0/1330	1.33	4/1794 (0.2%)
26	BG	1.05	0/895	1.51	15/1208 (1.2%)
27	BH	1.13	0/1429	1.77	18/1925 (0.9%)
28	BI	1.16	0/1352	2.99	29/1815 (1.6%)
29	BJ	1.20	1/1340 (0.1%)	1.89	20/1797 (1.1%)
30	BK	1.08	1/986 (0.1%)	2.52	7/1320 (0.5%)
31	BL	1.33	1/1671 (0.1%)	3.44	43/2239 (1.9%)
32	BM	1.23	1/1190 (0.1%)	3.77	22/1597 (1.4%)
33	BN	1.19	2/1185 (0.2%)	4.05	30/1597 (1.9%)
34	BO	1.20	2/937 (0.2%)	5.64	22/1266 (1.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
35	BP	1.24	1/1162 (0.1%)	2.86	20/1550 (1.3%)
36	BQ	1.10	0/811	1.45	7/1081 (0.6%)
37	BR	1.17	0/992	1.52	10/1333 (0.8%)
38	BS	1.23	0/449	1.66	7/597 (1.2%)
39	BT	1.19	0/621	1.52	5/837 (0.6%)
40	BU	1.15	0/922	1.78	6/1232 (0.5%)
41	BV	1.08	0/1162	1.32	6/1556 (0.4%)
42	B0	1.18	1/897 (0.1%)	4.22	12/1201 (1.0%)
43	BW	1.17	0/664	1.46	3/885 (0.3%)
44	BX	1.10	0/463	1.44	3/619 (0.5%)
45	BY	1.35	1/412 (0.2%)	6.06	13/548 (2.4%)
46	BZ	1.15	2/752 (0.3%)	7.19	34/995 (3.4%)
47	B9	1.27	0/553	1.66	6/740 (0.8%)
All	All	0.77	35/158803 (0.0%)	1.54	678/236031 (0.3%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	4	37
18	B3	19	47
19	B4	2	0
21	BB	0	2
22	BC	0	1
28	BI	0	2
29	BJ	0	1
30	BK	0	1
31	BL	0	1
32	BM	0	2
33	BN	0	1
34	BO	0	2
35	BP	0	1
38	BS	0	1
40	BU	0	1
41	BV	0	1
47	B9	0	1
All	All	25	102

All (35) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	B3	1206	C	O3'-P	-58.99	0.90	1.61
18	B3	2133	U	O3'-P	-56.48	0.93	1.61
18	B3	2168	G	O3'-P	-32.11	1.22	1.61
23	BD	64	TRP	CD2-CE2	-26.50	1.09	1.41
23	BD	64	TRP	NE1-CE2	20.96	1.64	1.37
18	B3	2245	C	O3'-P	17.55	1.82	1.61
30	BK	75	PRO	C-N	12.88	1.63	1.34
23	BD	64	TRP	CG-CD2	12.65	1.65	1.43
18	B3	2205	G	O3'-P	-11.84	1.47	1.61
23	BD	64	TRP	CD1-NE1	-10.71	1.19	1.38
23	BD	64	TRP	CG-CD1	-10.65	1.21	1.36
1	AA	1066	C	O3'-P	-10.56	1.48	1.61
24	BE	99	TYR	CB-CG	-7.99	1.39	1.51
46	BZ	35	PHE	CB-CG	7.70	1.64	1.51
22	BC	117	PHE	CB-CG	7.67	1.64	1.51
45	BY	26	PHE	CB-CG	7.60	1.64	1.51
21	BB	185	PHE	CB-CG	7.52	1.64	1.51
32	BM	47	PHE	CB-CG	7.51	1.64	1.51
34	BO	94	PHE	CB-CG	7.50	1.64	1.51
46	BZ	57	PHE	CB-CG	7.50	1.64	1.51
31	BL	179	PHE	CB-CG	7.46	1.64	1.51
42	B0	46	PHE	CB-CG	7.44	1.64	1.51
22	BC	297	PHE	CB-CG	7.37	1.63	1.51
21	BB	15	PHE	CB-CG	7.25	1.63	1.51
34	BO	106	PHE	CB-CG	6.91	1.63	1.51
9	AI	97	ASP	C-N	6.86	1.49	1.34
33	BN	59	PHE	CB-CG	6.60	1.62	1.51
35	BP	123	TYR	CB-CG	-6.37	1.42	1.51
9	AI	103	GLU	CA-C	5.90	1.68	1.52
33	BN	46	TYR	CB-CG	-5.47	1.43	1.51
9	AI	98	GLU	N-CA	5.40	1.57	1.46
9	AI	103	GLU	N-CA	5.36	1.57	1.46
29	BJ	70	VAL	CA-CB	-5.18	1.43	1.54
9	AI	105	LYS	N-CA	5.16	1.56	1.46
22	BC	313	TYR	CB-CG	-5.08	1.44	1.51

All (678) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	BC	297	PHE	CZ-CE2-CD2	-87.49	15.11	120.10
42	B0	46	PHE	CZ-CE2-CD2	-87.16	15.51	120.10
45	BY	26	PHE	CZ-CE2-CD2	-87.13	15.54	120.10
21	BB	15	PHE	CZ-CE2-CD2	-87.10	15.57	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BO	94	PHE	CD1-CE1-CZ	-87.08	15.60	120.10
34	BO	106	PHE	CD1-CE1-CZ	-87.07	15.61	120.10
32	BM	47	PHE	CZ-CE2-CD2	-87.06	15.62	120.10
31	BL	179	PHE	CZ-CE2-CD2	-87.05	15.64	120.10
46	BZ	57	PHE	CD1-CE1-CZ	-87.05	15.65	120.10
46	BZ	35	PHE	CZ-CE2-CD2	-87.04	15.65	120.10
21	BB	185	PHE	CZ-CE2-CD2	-86.98	15.72	120.10
22	BC	117	PHE	CD1-CE1-CZ	-86.59	16.19	120.10
33	BN	59	PHE	CZ-CE2-CD2	-86.52	16.27	120.10
23	BD	64	TRP	CE2-CD2-CG	-75.54	46.87	107.30
30	BK	75	PRO	O-C-N	-70.91	9.24	122.70
33	BN	59	PHE	CG-CD2-CE2	-67.36	46.70	120.80
34	BO	106	PHE	CG-CD1-CE1	-66.56	47.59	120.80
21	BB	15	PHE	CG-CD2-CE2	-66.15	48.03	120.80
32	BM	47	PHE	CG-CD2-CE2	-66.05	48.15	120.80
46	BZ	57	PHE	CG-CD1-CE1	-65.97	48.23	120.80
42	B0	46	PHE	CG-CD2-CE2	-65.92	48.29	120.80
31	BL	179	PHE	CG-CD2-CE2	-65.73	48.49	120.80
21	BB	185	PHE	CG-CD2-CE2	-65.70	48.53	120.80
22	BC	117	PHE	CG-CD1-CE1	-65.67	48.56	120.80
22	BC	297	PHE	CG-CD2-CE2	-65.66	48.58	120.80
34	BO	94	PHE	CG-CD1-CE1	-65.60	48.64	120.80
45	BY	26	PHE	CG-CD2-CE2	-65.04	49.25	120.80
46	BZ	35	PHE	CG-CD2-CE2	-64.20	50.19	120.80
18	B3	2133	U	P-O3'-C3'	-62.95	44.16	119.70
23	BD	64	TRP	NE1-CE2-CD2	-60.83	46.47	107.30
46	BZ	22	HIS	CG-ND1-CE1	-52.60	34.56	108.20
35	BP	65	HIS	CG-ND1-CE1	-52.48	34.73	108.20
18	B3	2245	C	O3'-P-O5'	-52.45	4.35	104.00
22	BC	242	HIS	CG-ND1-CE1	-52.41	34.83	108.20
28	BI	86	HIS	CG-ND1-CE1	-52.40	34.84	108.20
46	BZ	22	HIS	ND1-CG-CD2	-52.12	33.03	106.00
23	BD	64	TRP	CG-CD1-NE1	-52.09	58.01	110.10
22	BC	242	HIS	ND1-CG-CD2	-52.08	33.08	106.00
35	BP	65	HIS	ND1-CG-CD2	-52.06	33.12	106.00
28	BI	86	HIS	ND1-CG-CD2	-52.01	33.19	106.00
22	BC	117	PHE	CB-CG-CD1	46.58	153.40	120.80
21	BB	15	PHE	CB-CG-CD2	46.29	153.20	120.80
34	BO	94	PHE	CB-CG-CD1	46.19	153.13	120.80
42	B0	46	PHE	CB-CG-CD2	46.09	153.06	120.80
31	BL	179	PHE	CB-CG-CD2	46.07	153.05	120.80
34	BO	106	PHE	CB-CG-CD1	46.05	153.04	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	BM	47	PHE	CB-CG-CD2	45.98	152.99	120.80
21	BB	185	PHE	CB-CG-CD2	45.94	152.96	120.80
46	BZ	57	PHE	CB-CG-CD1	45.80	152.86	120.80
22	BC	297	PHE	CB-CG-CD2	45.67	152.77	120.80
33	BN	59	PHE	CB-CG-CD2	45.23	152.47	120.80
46	BZ	35	PHE	CB-CG-CD2	45.23	152.46	120.80
45	BY	26	PHE	CB-CG-CD2	44.94	152.26	120.80
23	BD	64	TRP	CE3-CZ3-CH2	-41.98	75.02	121.20
23	BD	64	TRP	CZ3-CH2-CZ2	-39.17	74.59	121.60
21	BB	193	ASN	CB-CG-OD1	-39.10	43.41	121.60
28	BI	112	GLN	CG-CD-OE1	-38.89	43.82	121.60
31	BL	137	GLN	CG-CD-OE1	-38.84	43.93	121.60
23	BD	64	TRP	CH2-CZ2-CE2	38.81	156.21	117.40
46	BZ	81	GLN	CG-CD-OE1	-38.74	44.13	121.60
22	BC	242	HIS	CG-CD2-NE2	-38.69	35.69	109.20
21	BB	143	ASN	CB-CG-OD1	-38.68	44.24	121.60
40	BU	42	GLN	CG-CD-OE1	-38.68	44.25	121.60
29	BJ	46	GLN	CG-CD-OE1	-38.67	44.26	121.60
35	BP	65	HIS	CG-CD2-NE2	-38.65	35.77	109.20
46	BZ	26	GLN	CG-CD-OE1	-38.63	44.34	121.60
46	BZ	22	HIS	CG-CD2-NE2	-38.61	35.85	109.20
30	BK	97	ASN	CB-CG-OD1	-38.59	44.43	121.60
28	BI	100	ASN	CB-CG-OD1	-38.55	44.51	121.60
27	BH	162	GLN	CG-CD-OE1	-38.54	44.52	121.60
33	BN	120	GLN	CG-CD-OE1	-38.54	44.52	121.60
33	BN	27	ASN	CB-CG-OD1	-38.48	44.64	121.60
28	BI	86	HIS	CG-CD2-NE2	-38.46	36.12	109.20
13	AM	136	GLN	CG-CD-OE1	-38.23	45.14	121.60
46	BZ	35	PHE	CE1-CZ-CE2	-37.54	52.42	120.00
21	BB	185	PHE	CE1-CZ-CE2	-37.43	52.63	120.00
42	B0	46	PHE	CE1-CZ-CE2	-37.34	52.79	120.00
22	BC	117	PHE	CE1-CZ-CE2	-37.28	52.90	120.00
21	BB	15	PHE	CE1-CZ-CE2	-37.27	52.92	120.00
31	BL	179	PHE	CE1-CZ-CE2	-37.27	52.92	120.00
34	BO	94	PHE	CE1-CZ-CE2	-37.25	52.94	120.00
46	BZ	57	PHE	CE1-CZ-CE2	-37.25	52.96	120.00
32	BM	47	PHE	CE1-CZ-CE2	-37.17	53.09	120.00
45	BY	26	PHE	CE1-CZ-CE2	-37.15	53.12	120.00
34	BO	106	PHE	CE1-CZ-CE2	-37.12	53.19	120.00
33	BN	59	PHE	CE1-CZ-CE2	-37.06	53.30	120.00
22	BC	297	PHE	CE1-CZ-CE2	-37.04	53.33	120.00
46	BZ	35	PHE	CD1-CE1-CZ	-35.58	77.41	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	BY	26	PHE	CD1-CE1-CZ	-35.53	77.46	120.10
22	BC	297	PHE	CD1-CE1-CZ	-34.93	78.19	120.10
45	BY	26	PHE	CD1-CG-CD2	-34.75	73.12	118.30
31	BL	179	PHE	CD1-CE1-CZ	-34.75	78.40	120.10
22	BC	117	PHE	CZ-CE2-CD2	-34.74	78.41	120.10
34	BO	94	PHE	CZ-CE2-CD2	-34.69	78.48	120.10
46	BZ	57	PHE	CZ-CE2-CD2	-34.64	78.53	120.10
32	BM	47	PHE	CD1-CE1-CZ	-34.61	78.57	120.10
46	BZ	35	PHE	CD1-CG-CD2	-34.57	73.35	118.30
21	BB	185	PHE	CD1-CE1-CZ	-34.54	78.65	120.10
21	BB	15	PHE	CD1-CE1-CZ	-34.43	78.78	120.10
42	B0	46	PHE	CD1-CE1-CZ	-34.41	78.81	120.10
22	BC	117	PHE	CD1-CG-CD2	-34.38	73.61	118.30
22	BC	297	PHE	CD1-CG-CD2	-34.31	73.70	118.30
34	BO	106	PHE	CZ-CE2-CD2	-34.29	78.95	120.10
34	BO	94	PHE	CD1-CG-CD2	-34.28	73.73	118.30
21	BB	185	PHE	CD1-CG-CD2	-34.23	73.80	118.30
31	BL	179	PHE	CD1-CG-CD2	-34.21	73.83	118.30
32	BM	47	PHE	CD1-CG-CD2	-34.14	73.91	118.30
46	BZ	57	PHE	CD1-CG-CD2	-34.13	73.93	118.30
23	BD	64	TRP	CD2-CE2-CZ2	-34.09	81.39	122.30
21	BB	15	PHE	CD1-CG-CD2	-34.02	74.08	118.30
34	BO	106	PHE	CD1-CG-CD2	-34.01	74.09	118.30
42	B0	46	PHE	CD1-CG-CD2	-34.01	74.09	118.30
33	BN	59	PHE	CD1-CG-CD2	-33.88	74.26	118.30
18	B3	2133	U	O3'-P-O5'	-33.66	40.04	104.00
33	BN	59	PHE	CD1-CE1-CZ	-33.40	80.02	120.10
18	B3	1206	C	OP1-P-O3'	-32.04	34.71	105.20
28	BI	86	HIS	ND1-CE1-NE2	-31.57	40.44	109.90
35	BP	65	HIS	ND1-CE1-NE2	-31.42	40.77	109.90
22	BC	242	HIS	ND1-CE1-NE2	-31.40	40.81	109.90
46	BZ	22	HIS	ND1-CE1-NE2	-31.40	40.82	109.90
23	BD	64	TRP	CE2-CD2-CE3	-31.06	81.42	118.70
18	B3	2245	C	P-O3'-C3'	-30.23	83.42	119.70
23	BD	64	TRP	CD2-CE3-CZ3	28.78	156.22	118.80
33	BN	59	PHE	CG-CD1-CE1	-28.50	89.45	120.80
28	BI	86	HIS	CE1-NE2-CD2	-28.48	35.41	106.60
22	BC	242	HIS	CE1-NE2-CD2	-28.40	35.59	106.60
35	BP	65	HIS	CE1-NE2-CD2	-28.39	35.62	106.60
46	BZ	22	HIS	CE1-NE2-CD2	-28.34	35.74	106.60
22	BC	117	PHE	CG-CD2-CE2	-27.69	90.34	120.80
42	B0	46	PHE	CG-CD1-CE1	-27.53	90.51	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	BO	106	PHE	CG-CD2-CE2	-27.48	90.57	120.80
34	BO	94	PHE	CG-CD2-CE2	-27.45	90.60	120.80
21	BB	15	PHE	CG-CD1-CE1	-27.44	90.61	120.80
32	BM	47	PHE	CG-CD1-CE1	-27.40	90.66	120.80
21	BB	185	PHE	CG-CD1-CE1	-27.40	90.66	120.80
46	BZ	57	PHE	CG-CD2-CE2	-27.36	90.71	120.80
31	BL	179	PHE	CG-CD1-CE1	-27.35	90.71	120.80
46	BZ	35	PHE	CG-CD1-CE1	-27.11	90.98	120.80
22	BC	297	PHE	CG-CD1-CE1	-27.00	91.10	120.80
45	BY	26	PHE	CG-CD1-CE1	-26.64	91.50	120.80
1	AA	1066	C	O3'-P-O5'	23.86	149.33	104.00
45	BY	26	PHE	CB-CG-CD1	19.74	134.62	120.80
46	BZ	35	PHE	CB-CG-CD1	19.10	134.17	120.80
1	AA	1066	C	OP2-P-O3'	-18.98	63.44	105.20
22	BC	297	PHE	CB-CG-CD1	18.18	133.53	120.80
33	BN	59	PHE	CB-CG-CD1	17.82	133.28	120.80
21	BB	185	PHE	CB-CG-CD1	17.77	133.24	120.80
46	BZ	57	PHE	CB-CG-CD2	17.72	133.20	120.80
34	BO	94	PHE	CB-CG-CD2	17.62	133.13	120.80
31	BL	179	PHE	CB-CG-CD1	17.60	133.12	120.80
32	BM	47	PHE	CB-CG-CD1	17.57	133.10	120.80
22	BC	117	PHE	CB-CG-CD2	17.41	132.99	120.80
34	BO	106	PHE	CB-CG-CD2	17.24	132.87	120.80
42	B0	46	PHE	CB-CG-CD1	17.20	132.84	120.80
9	AI	104	LEU	C-N-CA	17.16	164.60	121.70
21	BB	15	PHE	CB-CG-CD1	17.01	132.71	120.80
18	B3	1206	C	O3'-P-O5'	-14.80	75.89	104.00
9	AI	97	ASP	C-N-CA	14.73	158.53	121.70
33	BN	46	TYR	CA-CB-CG	-14.53	85.79	113.40
9	AI	97	ASP	CB-CA-C	14.08	138.57	110.40
24	BE	99	TYR	CA-CB-CG	-13.97	86.86	113.40
33	BN	46	TYR	CB-CG-CD1	-13.87	112.68	121.00
35	BP	123	TYR	CB-CG-CD1	-12.54	113.47	121.00
47	B9	17	TYR	CA-CB-CG	-12.39	89.86	113.40
9	AI	98	GLU	C-N-CA	12.22	152.25	121.70
35	BP	123	TYR	CA-CB-CG	-11.90	90.80	113.40
24	BE	99	TYR	CB-CG-CD1	-11.62	114.03	121.00
22	BC	48	TYR	CB-CG-CD1	-11.47	114.12	121.00
24	BE	30	TYR	CA-CB-CG	-11.17	92.18	113.40
18	B3	2205	G	P-O3'-C3'	-11.10	106.38	119.70
18	B3	2749	U	C2'-C3'-O3'	11.08	133.88	109.50
27	BH	96	HIS	CA-CB-CG	-10.88	95.10	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	AI	105	LYS	CB-CA-C	-10.79	88.82	110.40
18	B3	904	U	C2'-C3'-O3'	10.40	132.39	109.50
24	BE	219	PHE	CA-CB-CG	-10.32	89.14	113.90
18	B3	1981	A	C2'-C3'-O3'	10.23	132.00	109.50
22	BC	310	PHE	CA-CB-CG	-10.08	89.70	113.90
18	B3	2692	G	N9-C1'-C2'	10.06	127.08	114.00
33	BN	25	PHE	CA-CB-CG	-10.02	89.85	113.90
1	AA	1498	U	C2'-C3'-O3'	10.02	131.54	109.50
22	BC	313	TYR	CA-CB-CG	-9.99	94.42	113.40
43	BW	59	TRP	CA-CB-CG	-9.97	94.75	113.70
13	AM	136	GLN	CG-CD-NE2	-9.89	92.96	116.70
33	BN	27	ASN	CB-CG-ND2	-9.83	93.10	116.70
28	BI	100	ASN	CB-CG-ND2	-9.79	93.20	116.70
27	BH	162	GLN	CG-CD-NE2	-9.73	93.35	116.70
21	BB	143	ASN	CB-CG-ND2	-9.69	93.45	116.70
33	BN	120	GLN	CG-CD-NE2	-9.67	93.49	116.70
29	BJ	46	GLN	CG-CD-NE2	-9.66	93.52	116.70
40	BU	42	GLN	CG-CD-NE2	-9.64	93.56	116.70
46	BZ	26	GLN	CG-CD-NE2	-9.63	93.60	116.70
30	BK	97	ASN	CB-CG-ND2	-9.62	93.61	116.70
1	AA	1504	G	C2'-C3'-O3'	9.61	130.64	109.50
46	BZ	81	GLN	CG-CD-NE2	-9.61	93.64	116.70
19	B4	3	A	C2'-C3'-O3'	9.57	130.55	109.50
1	AA	243	A	C2'-C3'-O3'	9.56	130.54	109.50
31	BL	137	GLN	CG-CD-NE2	-9.53	93.83	116.70
24	BE	160	PHE	CA-CB-CG	-9.43	91.27	113.90
28	BI	112	GLN	CG-CD-NE2	-9.42	94.10	116.70
18	B3	894	A	C2'-C3'-O3'	9.34	130.06	109.50
29	BJ	75	ALA	C-N-CA	9.34	145.05	121.70
24	BE	219	PHE	CB-CG-CD1	-9.31	114.28	120.80
18	B3	2168	G	OP2-P-O3'	-9.27	84.81	105.20
29	BJ	76	GLU	N-CA-C	-9.25	86.02	111.00
9	AI	101	LYS	C-N-CA	9.24	144.80	121.70
1	AA	181	G	C2'-C3'-O3'	9.22	129.78	109.50
1	AA	559	A	C2'-C3'-O3'	9.14	129.62	109.50
29	BJ	70	VAL	CA-CB-CG2	-9.07	97.30	110.90
32	BM	111	TYR	CA-CB-CG	-9.07	96.17	113.40
32	BM	31	LYS	C-N-CA	-8.88	99.50	121.70
18	B3	1059	G	C2'-C3'-O3'	8.86	129.00	109.50
21	BB	193	ASN	CB-CG-ND2	-8.86	95.45	116.70
9	AI	97	ASP	CA-C-O	-8.82	101.58	120.10
23	BD	25	PHE	CA-CB-CG	-8.81	92.75	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	BI	69	ARG	N-CA-C	-8.71	87.49	111.00
18	B3	713	U	C2'-C3'-O3'	8.70	128.63	109.50
24	BE	99	TYR	CB-CA-C	-8.69	93.01	110.40
11	AK	42	THR	CA-CB-CG2	-8.69	100.23	112.40
18	B3	1309	U	C2'-C3'-O3'	8.65	128.53	109.50
18	B3	191	A	C2'-C3'-O3'	8.65	128.53	109.50
22	BC	91	TYR	CA-CB-CG	-8.61	97.04	113.40
9	AI	101	LYS	N-CA-C	8.61	134.25	111.00
23	BD	25	PHE	CB-CG-CD1	-8.60	114.78	120.80
32	BM	38	GLU	N-CA-C	-8.59	87.80	111.00
29	BJ	101	PHE	CB-CA-C	-8.58	93.24	110.40
31	BL	118	TYR	CA-CB-CG	-8.55	97.15	113.40
18	B3	2168	G	P-O3'-C3'	8.55	129.96	119.70
22	BC	48	TYR	C-N-CA	8.51	142.97	121.70
26	BG	133	TYR	CB-CA-C	-8.51	93.39	110.40
24	BE	219	PHE	CB-CG-CD2	8.50	126.75	120.80
18	B3	480	C	C2'-C3'-O3'	8.33	127.83	109.50
37	BR	94	TYR	C-N-CA	-8.33	100.88	121.70
1	AA	1299	A	N9-C1'-C2'	8.32	124.82	114.00
9	AI	105	LYS	N-CA-C	8.31	133.44	111.00
18	B3	394	G	C2'-C3'-O3'	8.31	127.78	109.50
18	B3	2616	G	C2'-C3'-O3'	8.31	127.78	109.50
9	AI	102	ASN	C-N-CA	8.30	142.45	121.70
22	BC	320	PHE	CB-CA-C	-8.29	93.81	110.40
9	AI	103	GLU	C-N-CA	8.26	142.34	121.70
18	B3	2482	G	C2'-C3'-O3'	8.24	127.63	109.50
27	BH	88	TYR	CA-CB-CG	-8.19	97.85	113.40
18	B3	1206	C	P-O3'-C3'	8.17	129.50	119.70
18	B3	1406	A	C2'-C3'-O3'	8.14	127.41	109.50
18	B3	282	C	C2'-C3'-O3'	8.13	127.38	109.50
18	B3	1835	U	C2'-C3'-O3'	8.11	127.34	109.50
23	BD	123	SER	N-CA-C	-8.06	89.23	111.00
36	BQ	57	TYR	CA-CB-CG	-8.05	98.11	113.40
18	B3	1907	U	C2'-C3'-O3'	8.03	127.17	109.50
18	B3	600	G	C2'-C3'-O3'	7.98	127.06	109.50
18	B3	1853	C	C2'-C3'-O3'	7.98	127.06	109.50
18	B3	2714	U	C2'-C3'-O3'	7.95	126.99	109.50
1	AA	1528	U	C2'-C3'-O3'	7.95	126.98	109.50
18	B3	2321	A	C2'-C3'-O3'	7.92	126.92	109.50
1	AA	366	C	C2'-C3'-O3'	7.89	126.86	109.50
22	BC	48	TYR	CA-CB-CG	-7.86	98.47	113.40
41	BV	52	PHE	C-N-CA	-7.83	105.87	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	BL	118	TYR	CB-CG-CD2	-7.79	116.33	121.00
1	AA	575	G	C2'-C3'-O3'	7.78	126.62	109.50
18	B3	2427	C	C2'-C3'-O3'	7.72	126.49	109.50
47	B9	36	TYR	CA-CB-CG	-7.72	98.72	113.40
31	BL	3	TYR	CB-CG-CD1	-7.72	116.37	121.00
1	AA	197	A	N9-C1'-C2'	7.69	124.00	114.00
18	B3	1699	C	C2'-C3'-O3'	7.69	126.41	109.50
27	BH	159	ALA	N-CA-C	-7.67	90.30	111.00
18	B3	2370	A	C2'-C3'-O3'	7.60	126.22	109.50
1	AA	1493	A	C2'-C3'-O3'	7.58	126.18	109.50
9	AI	99	GLN	C-N-CA	7.58	140.65	121.70
1	AA	60	A	C2'-C3'-O3'	7.54	126.08	109.50
18	B3	1506	U	C2'-C3'-O3'	7.49	125.98	109.50
7	AG	203	GLY	N-CA-C	-7.49	94.38	113.10
23	BD	124	ALA	N-CA-CB	7.49	120.58	110.10
33	BN	98	ALA	N-CA-C	-7.46	90.86	111.00
18	B3	554	G	C2'-C3'-O3'	7.45	125.89	109.50
35	BP	10	ALA	N-CA-CB	7.42	120.49	110.10
22	BC	310	PHE	CB-CG-CD1	-7.42	115.61	120.80
22	BC	74	ALA	C-N-CA	-7.42	103.15	121.70
22	BC	271	TYR	C-N-CA	-7.40	103.21	121.70
29	BJ	76	GLU	CB-CA-C	-7.36	95.68	110.40
1	AA	266	G	C2'-C3'-O3'	7.35	125.66	109.50
21	BB	193	ASN	OD1-CG-ND2	7.34	138.79	121.90
18	B3	2168	G	O3'-P-O5'	7.33	117.92	104.00
24	BE	203	HIS	CB-CA-C	-7.32	95.76	110.40
23	BD	124	ALA	N-CA-C	-7.31	91.26	111.00
19	B4	28	U	C2'-C3'-O3'	7.30	125.57	109.50
23	BD	128	THR	N-CA-C	-7.30	91.28	111.00
37	BR	71	LYS	C-N-CA	-7.29	103.48	121.70
30	BK	73	VAL	C-N-CA	7.27	139.88	121.70
21	BB	209	PRO	N-CA-C	-7.25	93.26	112.10
18	B3	2813	A	C2'-C3'-O3'	7.24	125.43	109.50
1	AA	687	A	C2'-C3'-O3'	7.22	125.38	109.50
18	B3	2133	U	OP1-P-O3'	-7.21	89.35	105.20
13	AM	105	VAL	CA-CB-CG2	-7.20	100.10	110.90
18	B3	199	A	C2'-C3'-O3'	7.18	125.29	109.50
18	B3	2283	G	C2'-C3'-O3'	7.17	125.27	109.50
1	AA	792	A	C2'-C3'-O3'	7.17	125.27	109.50
9	AI	97	ASP	CA-C-N	7.17	132.96	117.20
28	BI	22	TYR	CA-CB-CG	-7.16	99.81	113.40
29	BJ	127	TYR	CB-CG-CD2	-7.15	116.71	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	BC	104	VAL	CA-CB-CG2	-7.14	100.19	110.90
22	BC	271	TYR	CA-CB-CG	-7.11	99.89	113.40
22	BC	47	GLY	C-N-CA	-7.10	103.94	121.70
33	BN	26	LYS	N-CA-C	-7.10	91.82	111.00
24	BE	99	TYR	CD1-CG-CD2	7.08	125.69	117.90
13	AM	136	GLN	OE1-CD-NE2	7.04	138.10	121.90
36	BQ	95	HIS	CA-CB-CG	-7.04	101.63	113.60
1	AA	115	G	N9-C1'-C2'	7.03	123.14	114.00
30	BK	97	ASN	OD1-CG-ND2	7.02	138.04	121.90
33	BN	120	GLN	OE1-CD-NE2	7.00	138.01	121.90
24	BE	208	MET	C-N-CA	-6.99	104.22	121.70
27	BH	117	PHE	CA-CB-CG	-6.98	97.14	113.90
46	BZ	26	GLN	OE1-CD-NE2	6.97	137.94	121.90
32	BM	32	ILE	C-N-CA	6.97	139.13	121.70
46	BZ	42	TYR	CB-CG-CD2	-6.97	116.82	121.00
27	BH	90	MET	N-CA-CB	6.97	123.14	110.60
18	B3	452	G	N9-C1'-C2'	6.97	123.06	114.00
28	BI	112	GLN	OE1-CD-NE2	6.96	137.91	121.90
35	BP	123	TYR	CD1-CG-CD2	6.95	125.55	117.90
18	B3	1214	G	C2'-C3'-O3'	6.94	124.81	113.70
27	BH	162	GLN	OE1-CD-NE2	6.94	137.87	121.90
24	BE	99	TYR	CG-CD1-CE1	-6.94	115.75	121.30
18	B3	1379	A	C2'-C3'-O3'	6.93	124.79	113.70
31	BL	162	GLY	N-CA-C	-6.93	95.78	113.10
38	BS	21	PHE	CA-CB-CG	-6.93	97.28	113.90
40	BU	42	GLN	OE1-CD-NE2	6.92	137.81	121.90
33	BN	129	TYR	CA-CB-CG	-6.91	100.27	113.40
29	BJ	46	GLN	OE1-CD-NE2	6.90	137.78	121.90
46	BZ	81	GLN	OE1-CD-NE2	6.90	137.76	121.90
31	BL	137	GLN	OE1-CD-NE2	6.89	137.75	121.90
33	BN	27	ASN	OD1-CG-ND2	6.89	137.74	121.90
28	BI	100	ASN	OD1-CG-ND2	6.87	137.71	121.90
21	BB	143	ASN	OD1-CG-ND2	6.87	137.69	121.90
18	B3	196	G	C2'-C3'-O3'	6.85	124.67	113.70
28	BI	158	LYS	CA-CB-CG	-6.85	98.33	113.40
18	B3	2158	A	N9-C1'-C2'	6.85	122.90	114.00
36	BQ	14	MET	CG-SD-CE	-6.82	89.29	100.20
22	BC	153	TYR	CB-CA-C	-6.82	96.76	110.40
18	B3	1690	C	C2'-C3'-O3'	6.82	124.61	113.70
18	B3	856	G	N9-C1'-C2'	6.77	122.80	114.00
21	BB	174	VAL	N-CA-C	-6.76	92.76	111.00
33	BN	46	TYR	CG-CD2-CE2	-6.74	115.91	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	B3	1979	G	C2'-C3'-O3'	6.74	124.49	113.70
33	BN	59	PHE	CA-CB-CG	-6.74	97.73	113.90
35	BP	123	TYR	CG-CD2-CE2	-6.68	115.95	121.30
29	BJ	101	PHE	N-CA-CB	6.64	122.56	110.60
27	BH	180	TYR	CA-CB-CG	-6.64	100.79	113.40
21	BB	195	TRP	CB-CG-CD2	-6.63	117.98	126.60
21	BB	175	ASP	CA-CB-CG	-6.63	98.82	113.40
21	BB	136	ILE	C-N-CA	-6.61	108.42	122.30
32	BM	53	TYR	CA-CB-CG	-6.58	100.90	113.40
23	BD	38	PHE	CB-CG-CD2	-6.58	116.20	120.80
1	AA	760	G	N9-C1'-C2'	-6.58	104.77	112.00
31	BL	25	ARG	CB-CG-CD	6.57	128.69	111.60
18	B3	548	U	C2'-C3'-O3'	6.57	124.21	113.70
22	BC	271	TYR	CB-CG-CD1	-6.56	117.06	121.00
1	AA	1067	A	C2'-C3'-O3'	6.53	124.15	113.70
1	AA	1502	A	N9-C1'-C2'	6.53	122.49	114.00
33	BN	46	TYR	N-CA-C	-6.52	93.40	111.00
23	BD	124	ALA	CB-CA-C	-6.52	100.32	110.10
18	B3	2338	G	P-O3'-C3'	6.50	127.51	119.70
39	BT	83	PHE	CB-CA-C	-6.50	97.40	110.40
35	BP	22	TRP	CB-CA-C	-6.49	97.42	110.40
27	BH	77	ASN	CA-CB-CG	-6.47	99.16	113.40
18	B3	1995	G	N9-C1'-C2'	6.47	122.41	114.00
18	B3	2133	U	OP2-P-O3'	-6.46	91.00	105.20
18	B3	1206	C	OP2-P-O3'	6.45	119.40	105.20
22	BC	231	ARG	N-CA-C	-6.44	93.61	111.00
30	BK	22	VAL	C-N-CA	6.43	135.80	122.30
32	BM	37	ALA	N-CA-C	-6.42	93.67	111.00
24	BE	33	ARG	N-CA-CB	6.41	122.14	110.60
32	BM	111	TYR	CB-CG-CD2	-6.41	117.15	121.00
24	BE	32	GLN	N-CA-C	-6.40	93.71	111.00
1	AA	115	G	C2'-C3'-O3'	6.40	123.93	113.70
46	BZ	42	TYR	CB-CG-CD1	6.40	124.84	121.00
26	BG	186	GLY	N-CA-C	-6.39	97.13	113.10
18	B3	1072	G	N9-C1'-C2'	6.38	122.30	114.00
22	BC	20	ARG	NE-CZ-NH1	6.36	123.48	120.30
28	BI	71	CYS	N-CA-C	-6.29	94.00	111.00
28	BI	58	GLU	C-N-CA	6.29	137.42	121.70
18	B3	2090	G	C2'-C3'-O3'	6.29	123.76	113.70
22	BC	74	ALA	N-CA-C	-6.28	94.03	111.00
24	BE	24	ARG	N-CA-C	-6.28	94.04	111.00
41	BV	139	ALA	N-CA-C	-6.28	94.06	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	B3	2692	G	O4'-C1'-N9	6.27	113.22	108.20
1	AA	509	A	C2'-C3'-O3'	6.26	123.72	113.70
1	AA	372	C	C2'-C3'-O3'	6.25	123.69	113.70
29	BJ	70	VAL	CB-CA-C	-6.24	99.54	111.40
23	BD	64	TRP	CG-CD2-CE3	-6.23	128.30	133.90
31	BL	62	ARG	NE-CZ-NH1	-6.22	117.19	120.30
35	BP	32	ALA	N-CA-C	-6.22	94.22	111.00
22	BC	270	GLY	C-N-CA	6.21	137.23	121.70
39	BT	94	ILE	CB-CA-C	-6.21	99.19	111.60
24	BE	165	GLY	N-CA-C	-6.20	97.61	113.10
26	BG	176	TYR	CB-CG-CD2	-6.20	117.28	121.00
1	AA	460	A	N9-C1'-C2'	6.18	122.03	114.00
22	BC	50	ALA	N-CA-C	-6.18	94.32	111.00
25	BF	137	TYR	CB-CA-C	-6.18	98.04	110.40
38	BS	11	ALA	N-CA-CB	6.17	118.74	110.10
27	BH	94	TYR	CA-CB-CG	-6.17	101.68	113.40
29	BJ	76	GLU	N-CA-CB	6.17	121.70	110.60
24	BE	102	GLY	N-CA-C	-6.16	97.70	113.10
18	B3	1126	C	C2'-C3'-O3'	6.14	123.53	113.70
18	B3	2083	A	C2'-C3'-O3'	6.14	123.52	113.70
18	B3	1682	A	N9-C1'-C2'	6.14	121.98	114.00
7	AG	188	THR	C-N-CA	6.13	137.02	121.70
18	B3	1214	G	C4'-C3'-O3'	6.13	125.26	113.00
18	B3	2395	A	C2'-C3'-O3'	6.12	123.49	113.70
28	BI	158	LYS	N-CA-CB	6.11	121.61	110.60
29	BJ	136	ARG	N-CA-C	-6.11	94.50	111.00
21	BB	198	THR	C-N-CA	-6.11	106.42	121.70
47	B9	68	TYR	CA-CB-CG	-6.11	101.80	113.40
4	AC	119	TYR	CB-CA-C	-6.10	98.19	110.40
31	BL	97	LEU	N-CA-C	-6.09	94.55	111.00
5	AD	37	LYS	C-N-CA	-6.08	106.49	121.70
1	AA	1528	U	C4'-C3'-O3'	6.08	125.16	113.00
24	BE	187	THR	CB-CA-C	-6.05	95.25	111.60
15	AO	77	ASN	C-N-CA	-6.05	109.59	122.30
24	BE	208	MET	N-CA-C	-6.05	94.66	111.00
21	BB	161	ALA	C-N-CA	6.04	136.80	121.70
28	BI	70	ILE	C-N-CA	6.04	136.79	121.70
33	BN	88	LYS	N-CA-C	-6.04	94.70	111.00
30	BK	75	PRO	C-N-CA	6.02	136.76	121.70
39	BT	83	PHE	C-N-CA	-6.02	106.64	121.70
29	BJ	77	GLU	C-N-CA	6.00	136.69	121.70
31	BL	66	ARG	N-CA-C	-6.00	94.81	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BG	199	LEU	C-N-CA	5.99	136.69	121.70
42	B0	73	THR	C-N-CA	-5.98	106.75	121.70
28	BI	22	TYR	CB-CG-CD1	-5.97	117.42	121.00
41	BV	47	TYR	CB-CA-C	-5.97	98.46	110.40
31	BL	129	PHE	N-CA-C	-5.96	94.90	111.00
38	BS	29	PHE	CB-CG-CD1	-5.95	116.63	120.80
43	BW	59	TRP	CB-CG-CD2	-5.95	118.87	126.60
18	B3	2258	A	C2'-C3'-O3'	5.94	123.21	113.70
23	BD	24	VAL	C-N-CA	5.94	136.54	121.70
23	BD	122	ALA	C-N-CA	5.94	136.54	121.70
41	BV	52	PHE	N-CA-C	-5.94	94.97	111.00
18	B3	191	A	C4'-C3'-O3'	5.93	124.86	113.00
22	BC	313	TYR	CB-CG-CD2	-5.93	117.44	121.00
24	BE	187	THR	N-CA-CB	5.93	121.56	110.30
32	BM	94	GLY	N-CA-C	-5.92	98.29	113.10
44	BX	49	LYS	N-CA-CB	5.92	121.26	110.60
17	AS	80	MET	CG-SD-CE	-5.91	90.75	100.20
24	BE	104	LEU	CA-CB-CG	-5.91	101.72	115.30
23	BD	134	VAL	N-CA-C	-5.90	95.06	111.00
31	BL	5	TYR	C-N-CA	-5.90	106.95	121.70
18	B3	1120	U	C5'-C4'-C3'	-5.88	106.60	116.00
24	BE	86	TYR	CA-CB-CG	-5.87	102.26	113.40
26	BG	199	LEU	CB-CA-C	-5.86	99.06	110.20
21	BB	202	ALA	N-CA-C	-5.85	95.19	111.00
9	AI	100	SER	C-N-CA	5.84	136.31	121.70
31	BL	115	LEU	N-CA-C	-5.84	95.23	111.00
37	BR	27	ASP	CA-CB-CG	-5.83	100.58	113.40
24	BE	159	VAL	CG1-CB-CG2	5.82	120.22	110.90
37	BR	27	ASP	C-N-CA	5.82	136.26	121.70
37	BR	91	VAL	C-N-CA	-5.82	107.16	121.70
18	B3	1524	U	N1-C1'-C2'	-5.79	105.63	112.00
38	BS	51	TRP	CB-CG-CD2	-5.79	119.08	126.60
24	BE	168	ASP	CA-CB-CG	-5.78	100.67	113.40
9	AI	103	GLU	N-CA-C	5.78	126.59	111.00
24	BE	87	GLY	C-N-CA	-5.76	107.29	121.70
24	BE	79	TYR	N-CA-CB	5.76	120.97	110.60
24	BE	166	ALA	C-N-CA	5.75	136.06	121.70
31	BL	25	ARG	CA-CB-CG	5.75	126.04	113.40
37	BR	130	ALA	N-CA-C	-5.74	95.50	111.00
9	AI	105	LYS	N-CA-CB	5.73	120.91	110.60
46	BZ	49	PHE	CB-CG-CD1	5.73	124.81	120.80
23	BD	237	LEU	CB-CA-C	-5.71	99.34	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	BG	177	ALA	CB-CA-C	-5.71	101.54	110.10
35	BP	9	LEU	CA-CB-CG	-5.70	102.19	115.30
28	BI	11	TYR	CB-CG-CD1	-5.69	117.59	121.00
47	B9	21	LEU	N-CA-C	-5.68	95.65	111.00
29	BJ	95	PHE	N-CA-CB	5.68	120.83	110.60
28	BI	16	PRO	C-N-CA	5.68	135.89	121.70
18	B3	1448	A	C2'-C3'-O3'	5.67	122.78	113.70
1	AA	1380	U	C2'-C3'-O3'	5.66	122.75	113.70
38	BS	35	LYS	N-CA-C	-5.66	95.72	111.00
37	BR	28	ASN	N-CA-C	-5.65	95.74	111.00
36	BQ	30	TYR	CB-CG-CD2	-5.65	117.61	121.00
23	BD	136	ALA	N-CA-C	-5.65	95.75	111.00
21	BB	53	ARG	CD-NE-CZ	-5.65	115.70	123.60
1	AA	266	G	C5'-C4'-C3'	-5.64	106.97	116.00
9	AI	48	TYR	CA-CB-CG	-5.63	102.70	113.40
24	BE	183	TRP	N-CA-C	-5.63	95.80	111.00
22	BC	49	LYS	C-N-CA	5.62	135.76	121.70
5	AD	37	LYS	N-CA-C	-5.62	95.84	111.00
23	BD	99	PHE	N-CA-C	-5.62	95.84	111.00
26	BG	149	LEU	CB-CA-C	-5.62	99.53	110.20
26	BG	185	LEU	CA-CB-CG	-5.61	102.39	115.30
27	BH	92	TYR	CB-CA-C	-5.61	99.19	110.40
22	BC	198	PHE	CB-CG-CD1	-5.60	116.88	120.80
42	B0	83	GLU	N-CA-C	-5.60	95.88	111.00
18	B3	2506	A	N9-C1'-C2'	-5.59	105.85	112.00
19	B4	39	U	N1-C1'-C2'	5.59	121.27	114.00
33	BN	90	VAL	N-CA-C	-5.58	95.94	111.00
23	BD	49	TYR	CA-CB-CG	-5.57	102.82	113.40
22	BC	198	PHE	CA-CB-CG	-5.56	100.56	113.90
22	BC	270	GLY	N-CA-C	-5.55	99.23	113.10
21	BB	233	LYS	N-CA-C	-5.54	96.03	111.00
31	BL	105	VAL	N-CA-C	-5.54	96.04	111.00
22	BC	313	TYR	CD1-CG-CD2	5.54	123.99	117.90
31	BL	45	ASP	CA-CB-CG	-5.53	101.24	113.40
31	BL	25	ARG	C-N-CA	5.53	135.52	121.70
38	BS	25	ASP	CA-CB-CG	-5.53	101.24	113.40
18	B3	1819	G	C5'-C4'-C3'	5.53	124.84	116.00
35	BP	10	ALA	N-CA-C	-5.52	96.09	111.00
1	AA	1065	U	C1'-O4'-C4'	-5.52	105.48	109.90
28	BI	57	LEU	C-N-CA	-5.51	107.92	121.70
26	BG	185	LEU	N-CA-CB	5.51	121.42	110.40
1	AA	1124	G	N9-C1'-C2'	5.51	121.16	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	BE	203	HIS	N-CA-C	-5.50	96.15	111.00
4	AC	33	TYR	CB-CG-CD2	-5.50	117.70	121.00
28	BI	67	ALA	N-CA-C	-5.49	96.19	111.00
31	BL	103	GLU	N-CA-C	-5.47	96.22	111.00
24	BE	30	TYR	CB-CG-CD1	-5.47	117.72	121.00
2	AT	110	ASP	N-CA-C	-5.47	96.24	111.00
28	BI	17	TYR	CB-CG-CD2	-5.47	117.72	121.00
27	BH	78	MET	N-CA-C	-5.47	96.24	111.00
44	BX	48	ARG	N-CA-C	-5.47	96.24	111.00
18	B3	1108	G	C2'-C3'-O3'	5.46	122.44	113.70
42	B0	82	LEU	N-CA-C	-5.46	96.25	111.00
31	BL	171	ARG	N-CA-C	-5.46	96.27	111.00
31	BL	62	ARG	CD-NE-CZ	-5.45	115.97	123.60
21	BB	173	ARG	C-N-CA	5.45	135.33	121.70
40	BU	20	PHE	CA-CB-CG	-5.44	100.85	113.90
18	B3	2205	G	OP2-P-O3'	5.43	117.16	105.20
21	BB	188	TYR	N-CA-C	-5.43	96.33	111.00
31	BL	5	TYR	CB-CG-CD2	-5.43	117.74	121.00
32	BM	96	ALA	N-CA-C	-5.43	96.33	111.00
32	BM	78	ILE	C-N-CA	-5.42	108.14	121.70
32	BM	137	LEU	CB-CA-C	-5.42	99.89	110.20
47	B9	17	TYR	CB-CG-CD1	-5.42	117.75	121.00
36	BQ	12	ARG	CD-NE-CZ	-5.42	116.01	123.60
21	BB	195	TRP	CB-CG-CD1	5.42	134.04	127.00
1	AA	353	A	C5'-C4'-O4'	-5.41	102.61	109.10
33	BN	82	TRP	CA-C-N	5.40	132.21	117.10
32	BM	44	GLY	C-N-CA	-5.39	108.21	121.70
17	AS	114	HIS	C-N-CA	5.39	135.18	121.70
34	BO	65	SER	N-CA-C	-5.39	96.44	111.00
1	AA	1504	G	C4'-C3'-C2'	5.39	107.99	102.60
28	BI	94	PHE	CA-CB-CG	-5.39	100.97	113.90
42	B0	114	ALA	N-CA-C	-5.38	96.47	111.00
18	B3	2914	A	C2'-C3'-O3'	5.38	122.31	113.70
21	BB	208	HIS	CB-CA-C	-5.37	99.67	110.40
34	BO	132	PRO	N-CA-C	-5.36	98.15	112.10
39	BT	79	ASN	C-N-CA	-5.36	108.30	121.70
31	BL	130	GLU	CB-CG-CD	-5.36	99.73	114.20
31	BL	130	GLU	N-CA-C	-5.36	96.53	111.00
18	B3	1214	G	C4'-C3'-C2'	5.35	107.95	102.60
11	AK	31	ASP	CB-CA-C	-5.34	99.72	110.40
34	BO	67	ILE	N-CA-C	-5.34	96.58	111.00
1	AA	993	G	N9-C1'-C2'	5.34	120.94	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	BH	97	PHE	CB-CG-CD1	-5.34	117.06	120.80
1	AA	203	U	N1-C1'-C2'	5.32	120.92	114.00
18	B3	600	G	C4'-C3'-O3'	5.32	123.64	113.00
29	BJ	95	PHE	CB-CG-CD2	-5.32	117.08	120.80
23	BD	127	ALA	C-N-CA	5.32	134.99	121.70
21	BB	221	ALA	N-CA-CB	5.31	117.54	110.10
31	BL	5	TYR	CA-CB-CG	-5.31	103.30	113.40
31	BL	108	ARG	N-CA-C	-5.31	96.65	111.00
11	AK	52	ASP	N-CA-CB	5.30	120.15	110.60
26	BG	166	PRO	N-CA-C	-5.30	98.32	112.10
46	BZ	49	PHE	CB-CG-CD2	-5.30	117.09	120.80
33	BN	31	THR	N-CA-C	-5.29	96.71	111.00
29	BJ	76	GLU	CB-CG-CD	-5.29	99.92	114.20
23	BD	136	ALA	C-N-CA	-5.29	108.48	121.70
1	AA	484	G	C2'-C3'-O3'	5.28	122.15	113.70
31	BL	3	TYR	CA-CB-CG	-5.28	103.36	113.40
36	BQ	65	TYR	CB-CG-CD2	-5.28	117.83	121.00
18	B3	777	U	O4'-C1'-N1	5.28	112.42	108.20
22	BC	309	GLY	C-N-CA	-5.27	108.53	121.70
43	BW	9	ARG	CD-NE-CZ	-5.27	116.23	123.60
31	BL	47	ALA	N-CA-C	-5.26	96.78	111.00
35	BP	23	LEU	N-CA-C	-5.26	96.79	111.00
18	B3	452	G	C2'-C3'-O3'	5.26	122.11	113.70
18	B3	1683	G	C2'-C3'-O3'	5.25	122.11	113.70
9	AI	13	LYS	C-N-CA	-5.24	108.59	121.70
40	BU	74	TYR	CB-CG-CD1	5.24	124.14	121.00
1	AA	389	A	C5'-C4'-C3'	5.24	124.38	116.00
31	BL	5	TYR	CD1-CG-CD2	5.24	123.66	117.90
18	B3	1907	U	C4'-C3'-O3'	5.24	123.47	113.00
1	AA	1503	A	C2'-C3'-O3'	5.24	122.08	113.70
3	AB	35	TYR	CA-CB-CG	-5.23	103.46	113.40
24	BE	108	ARG	N-CA-C	-5.23	96.88	111.00
35	BP	110	ASP	N-CA-C	-5.23	96.88	111.00
25	BF	102	LEU	N-CA-C	-5.22	96.90	111.00
47	B9	54	TRP	CB-CG-CD2	-5.22	119.81	126.60
21	BB	140	PRO	N-CA-C	-5.22	98.53	112.10
46	BZ	22	HIS	CB-CG-ND1	-5.22	110.16	123.20
27	BH	117	PHE	CB-CA-C	-5.21	99.97	110.40
34	BO	101	VAL	CG1-CB-CG2	5.21	119.24	110.90
39	BT	110	ASN	CA-CB-CG	-5.21	101.94	113.40
20	BA	12	HIS	CA-CB-CG	5.21	122.45	113.60
45	BY	30	LYS	N-CA-C	-5.21	96.95	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	B4	1	U	N1-C1'-C2'	5.20	120.76	114.00
28	BI	151	GLY	N-CA-C	-5.20	100.09	113.10
36	BQ	84	TYR	CB-CG-CD2	-5.20	117.88	121.00
4	AC	170	ALA	CB-CA-C	-5.20	102.30	110.10
29	BJ	78	ILE	N-CA-C	-5.20	96.96	111.00
45	BY	48	TRP	CB-CG-CD1	5.20	133.76	127.00
26	BG	185	LEU	CB-CA-C	-5.19	100.33	110.20
23	BD	99	PHE	C-N-CA	-5.19	108.73	121.70
31	BL	129	PHE	CB-CG-CD2	-5.18	117.17	120.80
18	B3	2316	G	N9-C1'-C2'	5.18	120.73	114.00
37	BR	83	LYS	N-CA-C	-5.18	97.02	111.00
22	BC	284	VAL	C-N-CA	-5.18	111.43	122.30
24	BE	116	ASP	N-CA-CB	5.18	119.92	110.60
26	BG	133	TYR	CA-CB-CG	5.18	123.23	113.40
22	BC	75	VAL	CG1-CB-CG2	5.17	119.18	110.90
35	BP	65	HIS	CB-CG-ND1	-5.17	110.26	123.20
9	AI	104	LEU	CB-CA-C	-5.17	100.37	110.20
28	BI	86	HIS	CB-CG-ND1	-5.17	110.27	123.20
31	BL	48	ARG	NE-CZ-NH2	-5.17	117.71	120.30
37	BR	131	SER	N-CA-C	-5.17	97.04	111.00
35	BP	71	GLU	C-N-CA	-5.17	111.44	122.30
24	BE	25	GLU	CA-CB-CG	-5.17	102.04	113.40
45	BY	30	LYS	CA-CB-CG	5.16	124.76	113.40
22	BC	314	GLY	C-N-CA	5.16	134.59	121.70
18	B3	535	G	N9-C1'-C2'	5.16	120.70	114.00
46	BZ	41	ARG	C-N-CA	-5.16	108.81	121.70
24	BE	209	GLU	CB-CG-CD	-5.15	100.30	114.20
41	BV	135	GLU	CB-CG-CD	-5.14	100.31	114.20
9	AI	100	SER	N-CA-C	5.14	124.88	111.00
38	BS	31	PHE	CB-CA-C	-5.14	100.11	110.40
37	BR	98	ASN	CA-CB-CG	-5.14	102.09	113.40
18	B3	1615	A	C5'-C4'-C3'	5.14	124.22	116.00
1	AA	181	G	C4'-C3'-O3'	5.13	123.26	113.00
18	B3	2074	A	N9-C1'-C2'	5.13	120.67	114.00
44	BX	19	SER	N-CA-C	-5.13	97.15	111.00
1	AA	63	C	C5'-C4'-C3'	-5.13	107.80	116.00
27	BH	99	ILE	CB-CA-C	-5.13	101.35	111.60
32	BM	107	ILE	N-CA-C	-5.13	97.16	111.00
22	BC	242	HIS	CB-CG-ND1	-5.12	110.39	123.20
41	BV	54	LYS	N-CA-C	-5.12	97.17	111.00
29	BJ	69	THR	N-CA-C	-5.12	97.18	111.00
1	AA	1085	U	N1-C1'-C2'	5.12	120.65	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	B3	1369	A	N9-C1'-C2'	5.12	120.65	114.00
24	BE	112	ARG	N-CA-CB	5.12	119.81	110.60
18	B3	2526	C	C2'-C3'-O3'	5.11	121.87	113.70
34	BO	100	THR	C-N-CA	-5.11	108.93	121.70
1	AA	686	U	C5'-C4'-C3'	-5.10	107.83	116.00
17	AS	119	PHE	CA-CB-CG	-5.10	101.65	113.90
31	BL	52	TYR	CA-CB-CG	-5.10	103.71	113.40
18	B3	1835	U	C4'-C3'-O3'	5.09	123.18	113.00
25	BF	132	TYR	CB-CA-C	-5.09	100.22	110.40
18	B3	2427	C	C4'-C3'-O3'	5.09	123.17	113.00
35	BP	109	ARG	N-CA-CB	5.09	119.75	110.60
34	BO	64	VAL	C-N-CA	5.08	134.40	121.70
27	BH	118	LEU	N-CA-C	-5.07	97.32	111.00
22	BC	20	ARG	N-CA-C	-5.07	97.32	111.00
31	BL	171	ARG	C-N-CA	-5.06	111.67	122.30
3	AB	67	PRO	CA-N-CD	-5.06	104.42	111.50
12	AL	106	GLY	N-CA-C	-5.06	100.45	113.10
18	B3	2506	A	O4'-C1'-N9	5.06	112.25	108.20
26	BG	110	LYS	N-CA-C	-5.06	97.35	111.00
26	BG	199	LEU	CA-C-N	-5.06	106.07	117.20
28	BI	84	ALA	N-CA-CB	5.06	117.18	110.10
46	BZ	10	TYR	CB-CG-CD2	-5.06	117.97	121.00
31	BL	186	ARG	N-CA-C	-5.05	97.35	111.00
45	BY	35	SER	N-CA-C	-5.05	97.36	111.00
33	BN	129	TYR	CB-CG-CD1	-5.05	117.97	121.00
18	B3	894	A	C4'-C3'-O3'	5.04	123.08	113.00
28	BI	73	ASN	CA-CB-CG	-5.04	102.32	113.40
33	BN	99	ALA	N-CA-CB	5.04	117.15	110.10
25	BF	135	TYR	CB-CG-CD1	-5.03	117.98	121.00
31	BL	132	ILE	N-CA-C	-5.03	97.41	111.00
26	BG	184	ARG	C-N-CA	-5.03	109.12	121.70
33	BN	46	TYR	CB-CG-CD2	5.03	124.02	121.00
29	BJ	72	GLY	CA-C-N	5.03	131.18	117.10
21	BB	85	GLN	N-CA-CB	5.03	119.65	110.60
40	BU	19	TYR	CB-CG-CD2	-5.03	117.98	121.00
35	BP	32	ALA	N-CA-CB	5.02	117.13	110.10
4	AC	149	MET	CG-SD-CE	-5.02	92.17	100.20
9	AI	104	LEU	N-CA-C	5.02	124.54	111.00
1	AA	960	U	C2'-C3'-O3'	5.01	121.72	113.70
32	BM	23	ALA	N-CA-C	-5.01	97.48	111.00
18	B3	2167	A	N9-C1'-C2'	5.00	120.51	114.00
27	BH	97	PHE	CA-CB-CG	-5.00	101.89	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	976	G	C5'-C4'-O4'	5.00	115.10	109.10
45	BY	20	ARG	C-N-CA	5.00	134.21	121.70

All (25) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	181	G	C3'
1	AA	1493	A	C3'
1	AA	1504	G	C3'
1	AA	1528	U	C3'
18	B3	191	A	C3'
18	B3	282	C	C3'
18	B3	600	G	C3'
18	B3	713	U	C3'
18	B3	894	A	C3'
18	B3	904	U	C3'
18	B3	1214	G	C3'
18	B3	1309	U	C3'
18	B3	1699	C	C3'
18	B3	1835	U	C3'
18	B3	1853	C	C3'
18	B3	1907	U	C3'
18	B3	1981	A	C3'
18	B3	2083	A	C3'
18	B3	2427	C	C3'
18	B3	2482	G	C3'
18	B3	2692	G	C1'
18	B3	2714	U	C3'
18	B3	2749	U	C3'
19	B4	1	U	C1'
19	B4	3	A	C3'

All (102) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1048	G	Sidechain
1	AA	1073	U	Sidechain
1	AA	1079	G	Sidechain
1	AA	1085	U	Sidechain
1	AA	1092	A	Sidechain
1	AA	12	U	Sidechain
1	AA	1281	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1289	A	Sidechain
1	AA	1293	G	Sidechain
1	AA	1299	A	Sidechain
1	AA	1301	U	Sidechain
1	AA	1305	G	Sidechain
1	AA	1360	A	Sidechain
1	AA	1506	U	Sidechain
1	AA	1525	G	Sidechain
1	AA	197	A	Sidechain
1	AA	203	U	Sidechain
1	AA	231	G	Sidechain
1	AA	249	U	Sidechain
1	AA	250	A	Sidechain
1	AA	251	G	Sidechain
1	AA	254	G	Sidechain
1	AA	266	G	Sidechain
1	AA	274	A	Sidechain
1	AA	290	C	Sidechain
1	AA	297	G	Sidechain
1	AA	305	G	Sidechain
1	AA	380	G	Sidechain
1	AA	481	G	Sidechain
1	AA	51	A	Sidechain
1	AA	573	A	Sidechain
1	AA	575	G	Sidechain
1	AA	603	U	Sidechain
1	AA	727	G	Sidechain
1	AA	879	C	Sidechain
1	AA	898	G	Sidechain
1	AA	982	U	Sidechain
18	B3	1122	U	Sidechain
18	B3	1173	A	Sidechain
18	B3	1342	C	Sidechain
18	B3	138	U	Sidechain
18	B3	1417	G	Sidechain
18	B3	1430	G	Sidechain
18	B3	1524	U	Sidechain
18	B3	1525	G	Sidechain
18	B3	1555	G	Sidechain
18	B3	1614	G	Sidechain
18	B3	1682	A	Sidechain
18	B3	1809	G	Sidechain

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Mol	Chain	Res	Type	Group
18	B3	1819	G	Sidechain
18	B3	1829	A	Sidechain
18	B3	1848	G	Sidechain
18	B3	1863	G	Sidechain
18	B3	1867	G	Sidechain
18	B3	1877	G	Sidechain
18	B3	1878	G	Sidechain
18	B3	189	A	Sidechain
18	B3	1972	U	Sidechain
18	B3	1979	G	Sidechain
18	B3	1995	G	Sidechain
18	B3	2158	A	Sidechain
18	B3	2170	G	Sidechain
18	B3	2213	G	Sidechain
18	B3	2312	G	Sidechain
18	B3	2313	C	Sidechain
18	B3	2463	A	Sidechain
18	B3	2493	C	Sidechain
18	B3	2503	A	Sidechain
18	B3	2506	A	Sidechain
18	B3	2543	G	Sidechain
18	B3	2564	G	Sidechain
18	B3	2607	U	Sidechain
18	B3	262	A	Sidechain
18	B3	2630	G	Sidechain
18	B3	270	U	Sidechain
18	B3	2842	G	Sidechain
18	B3	2866	U	Sidechain
18	B3	333	G	Sidechain
18	B3	396	U	Sidechain
18	B3	482	G	Sidechain
18	B3	485	A	Sidechain
18	B3	518	G	Sidechain
18	B3	529	G	Sidechain
18	B3	791	A	Sidechain
47	B9	22	ARG	Sidechain
21	BB	173	ARG	Sidechain
21	BB	53	ARG	Sidechain
22	BC	20	ARG	Sidechain
28	BI	17	TYR	Peptide
28	BI	69	ARG	Sidechain
29	BJ	132	ARG	Peptide

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Mol	Chain	Res	Type	Group
30	BK	75	PRO	Mainchain
31	BL	187	ARG	Sidechain
32	BM	37	ALA	Peptide
32	BM	84	ARG	Sidechain
33	BN	17	ARG	Sidechain
34	BO	130	ARG	Sidechain
34	BO	66	ARG	Sidechain
35	BP	99	ARG	Sidechain
38	BS	30	ARG	Sidechain
40	BU	22	ALA	Peptide
41	BV	48	HIS	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	31507	0	15705	4692	0
2	AT	6375	0	6431	574	0
3	AB	1438	0	1465	366	0
4	AC	1469	0	1534	306	0
5	AD	1424	0	1448	585	0
6	AE	1099	0	1150	351	0
7	AG	1161	0	1217	318	0
8	AH	1004	0	1033	415	0
9	AI	1094	0	1138	718	0
10	AJ	777	0	828	415	0
11	AK	925	0	935	342	0
12	AL	906	0	955	480	0
13	AM	1084	0	1091	719	0
14	AN	235	0	228	263	0
15	AO	552	0	597	174	0
16	AQ	618	0	655	359	0
17	AS	622	0	625	552	0
18	B3	59964	0	29926	9142	0
19	B4	2600	0	1308	630	0
20	BA	1682	0	1750	644	0
21	BB	1855	0	1912	1147	0
22	BC	2856	0	2895	1961	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	BD	1942	0	1964	1382	0
24	BE	1799	0	1710	1194	0
25	BF	1298	0	1365	687	0
26	BG	886	0	953	454	0
27	BH	1410	0	1472	794	0
28	BI	1326	0	1355	735	0
29	BJ	1319	0	1334	777	0
30	BK	978	0	1045	469	0
31	BL	1637	0	1668	873	0
32	BM	1165	0	1243	670	0
33	BN	1163	0	1157	768	0
34	BO	925	0	998	447	0
35	BP	1145	0	1215	793	0
36	BQ	795	0	804	454	0
37	BR	977	0	1008	673	0
38	BS	439	0	445	249	0
39	BT	614	0	635	429	0
40	BU	911	0	987	583	0
41	BV	1133	0	1163	782	0
42	B0	880	0	911	664	0
43	BW	654	0	689	315	0
44	BX	461	0	512	338	0
45	BY	402	0	389	346	0
46	BZ	740	0	798	422	0
47	B9	546	0	556	396	0
All	All	146792	0	101202	29887	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 121.

All (29887) 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)
1:AA:1329:A:H5'	13:AM:98:TYR:CG	1.25	1.70
18:B3:1694:G:C2	45:BY:5:PRO:HG2	1.20	1.70
18:B3:541:C:C5	42:B0:15:LYS:HG3	1.20	1.69
1:AA:1178:G:P	9:AI:105:LYS:HG2	1.34	1.68
18:B3:2388:C:P	36:BQ:88:ARG:HB3	1.34	1.67
1:AA:319:G:C4	1:AA:1434:A:C2	1.78	1.67
18:B3:2050:G:H8	33:BN:82:TRP:CE3	1.09	1.67
18:B3:1415:G:C5'	45:BY:13:LYS:HE2	1.23	1.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:448:G:C2	23:BD:47:GLN:HG2	1.17	1.67
18:B3:541:C:C6	42:B0:15:LYS:HG3	1.27	1.66
31:BL:82:LYS:HD2	46:BZ:49:PHE:CD1	1.29	1.66
18:B3:1181:A:C2	30:BK:105:GLN:HB3	1.28	1.66
1:AA:1318:A:C2	17:AS:82:ASN:HB3	1.32	1.66
21:BB:179:LEU:CD2	47:B9:21:LEU:HD12	1.22	1.65
1:AA:956:U:H1'	17:AS:126:VAL:CG2	1.19	1.65
18:B3:693:A:H4'	41:BV:59:TYR:CE1	1.21	1.65
19:B4:97:U:C2	25:BF:220:LYS:HD3	1.19	1.65
19:B4:119:C:C6	24:BE:71:GLY:HA2	1.25	1.65
18:B3:672:G:C8	23:BD:214:ILE:HG22	1.15	1.64
18:B3:2468:A:C2	46:BZ:54:LYS:HB3	1.12	1.64
1:AA:130:A:C8	16:AQ:135:ARG:HA	1.33	1.64
24:BE:16:PHE:HA	36:BQ:19:PHE:CZ	1.24	1.64
18:B3:953:G:H3'	36:BQ:13:TYR:CE2	1.21	1.64
1:AA:538:G:C5'	12:AL:141:GLU:HA	1.23	1.64
18:B3:1689:A:C2	33:BN:128:THR:HG23	1.27	1.64
19:B4:51:A:C2	24:BE:58:LYS:HG2	1.20	1.64
18:B3:487:G:H3'	40:BU:90:VAL:CG1	1.20	1.63
18:B3:1206:C:H2'	18:B3:1207:A:C8	1.27	1.63
18:B3:67:A:C3'	44:BX:55:LEU:CD2	1.76	1.63
18:B3:2526:C:H4'	18:B3:2605:G:C5'	1.20	1.63
1:AA:190(E):U:P	16:AQ:130:ILE:HD11	1.35	1.63
1:AA:1300:G:H5'	13:AM:30:TYR:CE1	1.13	1.63
18:B3:2244:A:H5"	31:BL:27:TRP:CH2	1.24	1.63
18:B3:2312:G:H5'	28:BI:22:TYR:CD1	1.33	1.63
1:AA:1329:A:H5'	13:AM:98:TYR:CD1	1.13	1.63
18:B3:1705:C:H4'	35:BP:62:THR:CB	1.28	1.63
1:AA:1362:C:C2	13:AM:137:HIS:HE1	0.98	1.62
31:BL:82:LYS:CD	46:BZ:49:PHE:HD1	1.02	1.62
18:B3:1285:U:H4'	25:BF:155:ILE:CD1	1.19	1.62
18:B3:2468:A:C5	46:BZ:55:PRO:HG3	1.34	1.62
1:AA:1362:C:C2	13:AM:137:HIS:CE1	1.78	1.62
18:B3:2050:G:C8	33:BN:82:TRP:CZ3	1.87	1.61
22:BC:70:GLU:CA	37:BR:88:ARG:HG2	1.21	1.61
1:AA:1318:A:C6	17:AS:56:PHE:CE1	1.84	1.61
1:AA:1240:U:H5'	7:AG:188:THR:CA	1.26	1.61
18:B3:1285:U:C4'	25:BF:155:ILE:HD13	1.29	1.61
31:BL:82:LYS:HE3	46:BZ:49:PHE:CG	1.34	1.61
18:B3:921:G:C4'	41:BV:41:ARG:HG2	1.29	1.61
1:AA:537:G:H5"	12:AL:143:PRO:CG	1.26	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1163:G:C4	30:BK:51:LYS:HG3	1.29	1.61
18:B3:1705:C:C4'	35:BP:62:THR:HB	1.22	1.61
18:B3:2336:G:H4'	29:BJ:101:PHE:CZ	1.31	1.61
22:BC:260:MET:CB	32:BM:66:THR:HG21	1.22	1.61
18:B3:1733:A:C4'	22:BC:226:GLU:HA	1.29	1.60
20:BA:43:PRO:CG	20:BA:132:GLY:HA3	1.21	1.60
24:BE:16:PHE:HA	36:BQ:19:PHE:CE2	1.28	1.60
18:B3:616:U:C2'	42:B0:47:ARG:HG2	1.12	1.60
1:AA:1318:A:C5	17:AS:56:PHE:HE1	1.05	1.60
1:AA:1318:A:C6	17:AS:56:PHE:HE1	1.13	1.60
10:AJ:69:LYS:CB	14:AN:39:ARG:CZ	1.80	1.60
18:B3:1676:G:C3'	39:BT:115:PRO:HD3	1.29	1.60
18:B3:2415:A:H1'	24:BE:39:GLN:CG	1.25	1.60
37:BR:94:TYR:HD1	38:BS:21:PHE:CD2	1.10	1.60
18:B3:1943:C:C5'	21:BB:218:ILE:HD11	1.30	1.59
18:B3:2520:G:C5'	28:BI:160:PRO:HA	1.23	1.59
1:AA:958:A:C4	17:AS:101:ALA:HB1	1.20	1.59
1:AA:1299:A:N6	13:AM:55:HIS:CE1	1.69	1.59
18:B3:1352:A:C5'	23:BD:102:THR:CG2	1.80	1.59
18:B3:2133:U:H4'	18:B3:2134:G:C5'	1.13	1.59
20:BA:54:LYS:HG3	20:BA:156:LYS:CB	1.25	1.59
1:AA:538:G:H5'	12:AL:141:GLU:CA	1.25	1.59
1:AA:620:C:H5'	5:AD:129:ILE:CD1	1.25	1.59
1:AA:12:U:H4'	1:AA:526:C:C4'	1.26	1.59
18:B3:2312:G:C5'	28:BI:22:TYR:CE1	1.82	1.59
1:AA:66:G:C5'	1:AA:173:U:C2	1.85	1.58
10:AJ:78:THR:CG2	14:AN:39:ARG:HE	1.09	1.58
18:B3:1566:C:H4'	35:BP:56:VAL:CG1	1.11	1.58
18:B3:2335:C:C2	29:BJ:116:ASP:CB	1.85	1.58
18:B3:2654:C:C1'	22:BC:259:VAL:HG13	1.27	1.58
18:B3:107:U:H1'	44:BX:56:THR:CB	1.17	1.58
18:B3:902:G:C8	41:BV:21:ILE:HD11	1.37	1.58
22:BC:69:ARG:HD3	37:BR:89:ASP:CB	1.30	1.58
26:BG:161:LEU:HD22	31:BL:3:TYR:CZ	1.33	1.58
18:B3:1814:G:H2'	18:B3:2733:U:C5	1.36	1.58
10:AJ:75:GLY:HA3	14:AN:40:GLN:CG	1.20	1.58
18:B3:677:C:C4'	23:BD:256:LYS:HE2	1.30	1.58
18:B3:882:A:C1'	45:BY:2:LYS:HG2	1.20	1.58
18:B3:953:G:H5"	36:BQ:13:TYR:CD2	1.34	1.58
18:B3:1164:U:C5	30:BK:51:LYS:HG2	1.32	1.58
1:AA:1309:G:C4	13:AM:92:ILE:HB	1.07	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:137:VAL:HA	2:AT:481:MET:SD	1.42	1.57
18:B3:1993:C:C1'	37:BR:72:LYS:HG2	1.15	1.57
18:B3:1733:A:H4'	22:BC:226:GLU:CA	1.29	1.57
18:B3:2526:C:C4'	18:B3:2605:G:C5'	1.83	1.57
1:AA:1302:U:H3'	13:AM:54:LEU:CD2	1.32	1.57
10:AJ:70:THR:CA	14:AN:42:PHE:HB3	1.28	1.57
18:B3:2312:G:H5'	28:BI:22:TYR:CE1	1.06	1.57
1:AA:1309:G:C8	13:AM:92:ILE:CG1	1.78	1.56
1:AA:1419:G:H21	18:B3:1990:C:C5'	1.13	1.56
18:B3:164:G:C4'	41:BV:31:ARG:HG3	1.24	1.56
18:B3:1206:C:C2	18:B3:1207:A:C4	1.90	1.56
1:AA:1372:U:H5"	9:AI:74:VAL:CG2	1.19	1.56
18:B3:677:C:H4'	23:BD:256:LYS:CE	1.19	1.56
18:B3:1794:G:H4'	35:BP:96:ARG:CG	1.31	1.56
18:B3:2526:C:C4'	18:B3:2605:G:H5'	1.36	1.56
18:B3:672:G:H5'	23:BD:214:ILE:CD1	1.30	1.56
18:B3:2415:A:C1'	24:BE:39:GLN:HG3	1.30	1.56
18:B3:2560:C:H5'	27:BH:168:ARG:CD	1.35	1.56
18:B3:2845:G:H4'	22:BC:24:ILE:CG2	1.34	1.56
1:AA:12:U:H4'	1:AA:526:C:C5'	1.15	1.56
1:AA:920:U:C4'	1:AA:1080:A:H2'	1.27	1.55
18:B3:2087:C:C4'	33:BN:78:THR:HG21	1.25	1.55
27:BH:43:VAL:CG1	32:BM:126:LEU:HB2	1.16	1.55
18:B3:487:G:C3'	40:BU:90:VAL:HG11	1.34	1.55
10:AJ:73:GLY:C	14:AN:25:SER:HB3	1.21	1.55
1:AA:144:G:C6	1:AA:199:G:H5"	1.06	1.55
1:AA:678:U:C5'	11:AK:127:LYS:HA	1.37	1.55
18:B3:693:A:H4'	41:BV:59:TYR:CZ	1.35	1.55
1:AA:988:G:H4'	1:AA:1014:A:P	1.47	1.55
1:AA:1071:C:P	6:AE:90:ARG:HB2	1.43	1.54
1:AA:1314:C:N4	17:AS:49:MET:CA	1.70	1.54
1:AA:1318:A:C5	17:AS:56:PHE:CE1	1.87	1.54
18:B3:2087:C:C4'	33:BN:78:THR:CG2	1.84	1.54
18:B3:215:A:C5'	41:BV:58:ARG:HD2	1.28	1.54
18:B3:1343:C:H2'	23:BD:188:ALA:CA	1.30	1.54
1:AA:318:G:C2	1:AA:1434:A:C2	1.91	1.54
20:BA:54:LYS:CG	20:BA:156:LYS:HB3	1.33	1.54
18:B3:894:A:C5'	23:BD:57:HIS:HD2	0.93	1.54
18:B3:1243:C:C5'	32:BM:17:ARG:NH2	1.69	1.54
18:B3:2705:U:H5'	27:BH:122:LYS:CE	1.10	1.54
27:BH:43:VAL:HG13	32:BM:126:LEU:CB	1.08	1.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1086:U:H5”	1:AA:1389:C:C5’	1.06	1.53
10:AJ:70:THR:HA	14:AN:42:PHE:CB	1.06	1.53
18:B3:215:A:H5”	41:BV:58:ARG:CD	1.14	1.53
18:B3:844:A:C8	33:BN:130:ARG:NH2	1.75	1.53
18:B3:2763:G:H3’	37:BR:14:SER:CB	1.07	1.53
1:AA:1176:A:C3’	9:AI:107:ALA:HA	1.25	1.53
1:AA:1300:G:C5’	13:AM:30:TYR:CD1	1.92	1.53
6:AE:157:THR:HG23	8:AH:127:PHE:CE1	1.41	1.53
18:B3:1348:A:C5’	23:BD:241:ALA:HB2	1.07	1.53
18:B3:1381:A:C8	43:BW:25:LYS:HD3	1.41	1.53
18:B3:1761:U:C1’	35:BP:80:ARG:HH22	1.16	1.53
1:AA:1075:C:C5’	3:AB:103:PRO:HD2	1.31	1.53
1:AA:1240:U:C5’	7:AG:188:THR:HA	1.32	1.53
18:B3:1163:G:C6	30:BK:51:LYS:CE	1.83	1.53
18:B3:2052:U:P	33:BN:23:VAL:HG23	1.41	1.53
18:B3:1676:G:H5”	39:BT:115:PRO:CG	1.37	1.53
20:BA:43:PRO:CG	20:BA:132:GLY:CA	1.75	1.53
1:AA:1348:U:C4’	9:AI:134:ARG:HG3	1.30	1.53
1:AA:1348:U:H4’	9:AI:134:ARG:CG	1.34	1.52
18:B3:473:A:H5’	45:BY:48:TRP:CZ2	1.43	1.52
18:B3:2337:G:C1’	29:BJ:127:TYR:HA	1.38	1.52
19:B4:51:A:C2	24:BE:58:LYS:CG	1.89	1.52
20:BA:43:PRO:HG2	20:BA:132:GLY:CA	1.05	1.52
1:AA:1329:A:C5’	13:AM:98:TYR:CD1	1.81	1.52
18:B3:764:C:H1’	23:BD:86:GLN:CB	1.32	1.52
18:B3:764:C:C1’	23:BD:86:GLN:HB2	1.08	1.52
18:B3:2552:C:C4’	18:B3:2553:A:N3	1.72	1.52
18:B3:72:C:H5”	44:BX:49:LYS:CE	1.05	1.52
18:B3:2408:A:C1’	46:BZ:19:HIS:NE2	1.67	1.52
1:AA:920:U:C4’	1:AA:1080:A:C2’	1.85	1.52
2:AT:140:GLU:HB3	2:AT:481:MET:CG	1.04	1.52
1:AA:144:G:C6	1:AA:199:G:C5’	1.90	1.52
18:B3:1745:G:C5’	37:BR:22:ILE:HD13	1.36	1.52
18:B3:2347:C:C5	29:BJ:66:VAL:HG11	1.41	1.52
18:B3:449:A:H5’	18:B3:1306:U:C1’	1.39	1.51
18:B3:1566:C:C4’	35:BP:56:VAL:HG11	1.35	1.51
18:B3:1733:A:C8	22:BC:225:PHE:HE1	1.26	1.51
18:B3:1352:A:H5’	23:BD:102:THR:CG2	1.35	1.51
37:BR:95:PHE:CB	38:BS:21:PHE:HD1	0.97	1.51
1:AA:33:A:C2	12:AL:47:SER:HB3	1.42	1.51
1:AA:920:U:C5’	1:AA:1080:A:C4	1.86	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1345:U:N3	7:AG:76:TYR:CD1	1.78	1.51
18:B3:1316:G:P	42:B0:102:ALA:HB3	1.51	1.51
18:B3:2552:C:H4'	18:B3:2553:A:C2	1.42	1.51
18:B3:2737:C:C5	35:BP:61:ARG:NE	1.72	1.51
31:BL:82:LYS:CE	46:BZ:49:PHE:CD1	1.93	1.51
1:AA:66:G:C4'	1:AA:173:U:C2	1.91	1.51
18:B3:2345:A:C4'	29:BJ:48:LYS:HD3	1.36	1.51
18:B3:2652:U:C2'	22:BC:257:ALA:HB3	1.40	1.51
1:AA:877:C:H1'	8:AH:3:SER:CB	1.40	1.50
18:B3:2460:A:C1'	46:BZ:59:LYS:HB3	1.39	1.50
18:B3:67:A:H3'	44:BX:55:LEU:CD2	1.06	1.50
18:B3:949:U:C1'	36:BQ:100:LYS:HB3	1.29	1.50
1:AA:1309:G:C2'	13:AM:92:ILE:HG12	1.39	1.50
18:B3:448:G:N2	23:BD:47:GLN:CG	1.69	1.50
18:B3:2136:G:C2	18:B3:2238:A:C6	2.00	1.50
1:AA:1372:U:C5'	9:AI:74:VAL:HG21	1.36	1.50
18:B3:894:A:C2	23:BD:98:MET:HB2	1.46	1.50
1:AA:320:C:H1'	1:AA:1435:G:C2'	1.39	1.50
1:AA:553:A:H2'	12:AL:45:GLY:CA	1.19	1.50
1:AA:634:C:H3'	16:AQ:92:TYR:CZ	1.00	1.50
18:B3:919:U:C2	41:BV:41:ARG:HA	1.44	1.50
18:B3:1689:A:C2	33:BN:128:THR:CG2	1.94	1.50
18:B3:672:G:H5'	23:BD:214:ILE:CG1	1.37	1.50
18:B3:1708:C:C6	35:BP:81:LYS:HG2	1.44	1.50
18:B3:2819:C:H3'	22:BC:101:LEU:N	1.27	1.50
1:AA:1299:A:C5'	13:AM:57:ARG:HH12	1.16	1.49
18:B3:1206:C:C2'	18:B3:1207:A:C8	1.95	1.49
27:BH:43:VAL:HG13	32:BM:126:LEU:CA	1.05	1.49
1:AA:920:U:H4'	1:AA:1080:A:C2'	1.38	1.49
2:AT:140:GLU:CG	2:AT:481:MET:N	1.73	1.49
18:B3:841:A:H8	33:BN:131:ALA:CB	1.10	1.49
18:B3:1694:G:H21	45:BY:5:PRO:CB	1.23	1.49
31:BL:82:LYS:HE3	46:BZ:49:PHE:CB	1.06	1.49
1:AA:1406:U:H1'	1:AA:1518:A:C5'	1.42	1.49
13:AM:91:ASP:C	13:AM:109:LEU:CD1	1.76	1.49
18:B3:925:C:H4'	41:BV:28:PRO:CG	1.42	1.49
18:B3:1830:C:H42	21:BB:180:LYS:CE	1.21	1.49
18:B3:1943:C:C4'	21:BB:218:ILE:HD11	1.39	1.49
1:AA:1300:G:C4'	13:AM:30:TYR:CD1	1.94	1.49
18:B3:449:A:N6	18:B3:1349:G:H3'	1.17	1.49
18:B3:1287:A:C2	25:BF:106:ARG:NH1	1.78	1.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2853:U:H5”	22:BC:170:LEU:CD2	1.40	1.49
18:B3:1132:A:C3’	18:B3:2521:A:H4’	1.41	1.49
18:B3:1788:U:C3’	18:B3:2881:C:H2’	1.39	1.49
18:B3:1993:C:H1’	37:BR:72:LYS:CG	1.40	1.49
18:B3:100:C:C1’	40:BU:24:SER:HB2	1.40	1.48
19:B4:97:U:C2	25:BF:220:LYS:CD	1.92	1.48
18:B3:100:C:H1’	40:BU:24:SER:CB	1.04	1.48
19:B4:85:A:C4’	25:BF:131:PRO:HB3	1.42	1.48
22:BC:360:THR:N	38:BS:14:TYR:HB3	1.16	1.48
1:AA:1329:A:C5’	13:AM:98:TYR:CG	1.81	1.48
18:B3:2381:C:C1’	46:BZ:10:TYR:CD1	1.78	1.48
18:B3:2837:U:C6	22:BC:333:ARG:CD	1.79	1.48
6:AE:102:VAL:CG2	6:AE:189:LEU:HD23	1.40	1.48
10:AJ:78:THR:CG2	14:AN:39:ARG:NE	1.70	1.48
18:B3:1370:G:C8	33:BN:62:PHE:CE1	1.99	1.48
18:B3:1694:G:N2	45:BY:5:PRO:CB	1.74	1.48
18:B3:2283:G:C5’	28:BI:114:GLY:HA2	1.04	1.48
18:B3:953:G:H3’	36:BQ:13:TYR:CZ	1.47	1.48
18:B3:2546:U:C3’	22:BC:235:LYS:HG3	1.23	1.48
19:B4:34:A:N6	24:BE:95:TRP:CE3	1.76	1.48
1:AA:25:C:H4’	12:AL:109:ARG:CZ	1.40	1.47
1:AA:1343:G:C5’	9:AI:138:GLN:HA	1.41	1.47
10:AJ:78:THR:CB	14:AN:39:ARG:HE	1.24	1.47
18:B3:1815:A:O2’	18:B3:2746:A:C8	1.67	1.47
18:B3:2468:A:C2	46:BZ:54:LYS:CB	1.94	1.47
1:AA:66:G:H4’	1:AA:173:U:C2	1.42	1.47
1:AA:1176:A:H3’	9:AI:107:ALA:CA	1.40	1.47
2:AT:140:GLU:CB	2:AT:481:MET:HG2	1.03	1.47
18:B3:844:A:H8	33:BN:130:ARG:NH2	1.04	1.47
18:B3:1815:A:N7	18:B3:2733:U:N3	1.61	1.47
18:B3:2661:U:H3	18:B3:2812:A:N6	1.06	1.47
19:B4:36:C:H5’	24:BE:181:PRO:C	1.32	1.47
1:AA:920:U:H5’	1:AA:1080:A:C4	0.94	1.47
18:B3:657:G:O2’	23:BD:119:TYR:CE2	1.66	1.47
18:B3:1761:U:H1’	35:BP:80:ARG:NH2	1.26	1.47
18:B3:2101:A:C8	23:BD:71:ALA:HA	1.49	1.47
18:B3:2283:G:H5”	28:BI:114:GLY:CA	1.02	1.47
18:B3:2705:U:C5’	27:BH:122:LYS:HE3	1.04	1.47
1:AA:144:G:C5	1:AA:199:G:H5”	1.45	1.47
18:B3:1352:A:C5’	23:BD:102:THR:HG21	1.33	1.47
18:B3:1352:A:C4’	23:BD:102:THR:CG2	1.83	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:358:ILE:N	38:BS:15:PRO:HB2	1.17	1.47
1:AA:988:G:C2'	1:AA:1015:A:N7	1.77	1.47
2:AT:465:LYS:NZ	2:AT:511:LEU:HG	1.21	1.47
18:B3:72:C:C5'	44:BX:49:LYS:CE	1.93	1.47
18:B3:402:U:C4'	31:BL:69:ASN:ND2	1.74	1.47
18:B3:1675:C:C6	39:BT:113:VAL:N	1.71	1.47
18:B3:2050:G:C8	33:BN:82:TRP:CE3	1.93	1.47
30:BK:53:PHE:CD1	30:BK:86:LYS:NZ	1.78	1.47
1:AA:634:C:C3'	16:AQ:92:TYR:CZ	1.94	1.46
1:AA:1300:G:H5'	13:AM:30:TYR:CD1	1.48	1.46
1:AA:1362:C:N3	13:AM:137:HIS:HE1	1.08	1.46
18:B3:538:C:C2	42:B0:21:HIS:ND1	1.74	1.46
18:B3:693:A:C4'	41:BV:59:TYR:CE1	1.92	1.46
18:B3:616:U:H2'	42:B0:47:ARG:CG	0.98	1.46
1:AA:1075:C:H5"	3:AB:103:PRO:CD	1.44	1.46
18:B3:1812:G:C2	18:B3:2732:U:H5"	1.48	1.46
18:B3:1815:A:C8	18:B3:2733:U:N3	1.81	1.46
18:B3:2913:A:C2	22:BC:124:SER:OG	1.65	1.46
19:B4:49:G:C8	24:BE:158:ARG:HD3	1.28	1.46
10:AJ:71:PRO:CG	14:AN:36:ASN:OD1	1.63	1.46
18:B3:170:U:C5'	31:BL:82:LYS:HD2	0.99	1.46
18:B3:2135:A:C2	18:B3:2240:U:O4	1.65	1.46
19:B4:85:A:O2'	25:BF:228:PHE:CE1	1.68	1.46
18:B3:618:G:C8	42:B0:46:PHE:CD1	2.04	1.46
18:B3:902:G:N7	41:BV:21:ILE:HD11	1.23	1.46
18:B3:1805:G:C5'	18:B3:2875:A:C4'	1.90	1.46
18:B3:2093:G:C2'	22:BC:253:ALA:HB2	1.44	1.46
31:BL:82:LYS:CE	46:BZ:49:PHE:CB	1.94	1.46
1:AA:18:C:O2	1:AA:572:A:C2	1.66	1.45
1:AA:988:G:C1'	1:AA:1014:A:C3'	1.91	1.45
18:B3:2350:G:N2	29:BJ:116:ASP:HB2	1.22	1.45
18:B3:2837:U:C5	22:BC:333:ARG:HD2	1.48	1.45
1:AA:143:A:OP1	1:AA:201:C:C5	1.69	1.45
1:AA:1221:G:N7	17:AS:79:HIS:HA	1.24	1.45
1:AA:1318:A:C8	17:AS:54:ALA:HB1	1.49	1.45
1:AA:1321:C:N3	17:AS:81:ARG:HB2	1.19	1.45
18:B3:449:A:N6	18:B3:1349:G:C3'	1.79	1.45
18:B3:635:A:C5'	23:BD:91:ASN:OD1	1.64	1.45
20:BA:43:PRO:HG2	20:BA:132:GLY:C	1.13	1.45
21:BB:179:LEU:HD22	47:B9:21:LEU:CD1	1.00	1.45
1:AA:1321:C:H2'	17:AS:81:ARG:NH2	1.15	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:402:U:H4'	31:BL:69:ASN:CG	1.24	1.45
18:B3:676:C:C2'	23:BD:231:SER:O	1.63	1.45
18:B3:1163:G:N7	30:BK:51:LYS:HD2	1.30	1.45
1:AA:1302:U:O5'	13:AM:54:LEU:CD2	1.64	1.45
1:AA:1309:G:C3'	13:AM:92:ILE:HG12	1.12	1.45
18:B3:905:C:C5'	41:BV:11:ARG:NE	1.76	1.45
18:B3:1689:A:N3	33:BN:128:THR:CG2	1.80	1.45
18:B3:2705:U:H4'	27:BH:122:LYS:NZ	1.14	1.45
18:B3:2817:G:P	22:BC:96:ARG:HH21	1.40	1.45
1:AA:677:U:C5	11:AK:121:PRO:HB2	1.50	1.44
1:AA:1300:G:C5'	13:AM:30:TYR:CE1	1.95	1.44
1:AA:1319:A:C8	17:AS:49:MET:HE3	1.50	1.44
2:AT:749:LYS:HE3	18:B3:2508:C:C5	1.50	1.44
18:B3:1086:A:H62	25:BF:92:ASN:ND2	1.02	1.44
18:B3:1694:G:N2	45:BY:5:PRO:CD	1.78	1.44
18:B3:2133:U:C4'	18:B3:2134:G:H5'	1.41	1.44
18:B3:2345:A:C5'	29:BJ:48:LYS:CD	1.92	1.44
1:AA:988:G:C4	1:AA:1014:A:H2'	1.20	1.44
1:AA:1309:G:O6	13:AM:95:GLY:CA	1.65	1.44
1:AA:1319:A:C8	17:AS:49:MET:CE	2.00	1.44
18:B3:1875:A:C2'	21:BB:150:PRO:HB2	1.47	1.44
18:B3:26:U:C2'	18:B3:1319:G:C2'	1.84	1.44
18:B3:2837:U:O2	22:BC:334:ILE:CA	1.65	1.44
1:AA:131:C:H4'	1:AA:264:U:C4'	1.35	1.44
2:AT:501:LEU:HD12	12:AL:99:ASN:CB	1.45	1.44
18:B3:251:C:C1'	31:BL:139:LYS:HE2	1.37	1.44
18:B3:1056:U:H4'	28:BI:8:CYS:CB	1.44	1.44
18:B3:2545:U:O2'	22:BC:238:PRO:CG	1.65	1.44
20:BA:55:LEU:HD12	20:BA:157:PHE:CA	1.45	1.44
1:AA:132:C:O2	1:AA:262:A:C2	1.70	1.44
1:AA:231:G:N2	1:AA:263:A:H2	1.13	1.44
18:B3:905:C:H5'	41:BV:11:ARG:NE	1.22	1.44
18:B3:1676:G:C5'	39:BT:115:PRO:CD	1.96	1.44
18:B3:1689:A:C4	33:BN:128:THR:CG2	2.01	1.44
18:B3:1787:C:H2'	18:B3:2882:G:C3'	1.40	1.44
27:BH:43:VAL:CG1	32:BM:126:LEU:CA	1.91	1.44
37:BR:94:TYR:CD1	38:BS:21:PHE:CD2	1.99	1.44
1:AA:70:G:N2	1:AA:101:A:H61	1.02	1.43
5:AD:91:LYS:C	6:AE:174:GLY:HA3	1.06	1.43
18:B3:1086:A:N6	25:BF:92:ASN:HD21	1.06	1.43
18:B3:1673:U:C1'	39:BT:91:LYS:N	1.71	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:400:C:C4'	5:AD:77:ILE:HD13	1.46	1.43
1:AA:1296:C:H5"	13:AM:52:VAL:C	1.32	1.43
18:B3:635:A:H5'	23:BD:91:ASN:CG	1.32	1.43
18:B3:672:G:C5'	23:BD:214:ILE:HD12	1.45	1.43
18:B3:1163:G:C6	30:BK:51:LYS:HE2	0.94	1.43
18:B3:1694:G:N3	45:BY:5:PRO:HD2	1.14	1.43
18:B3:1812:G:N3	18:B3:2732:U:H5"	1.32	1.43
18:B3:2061:C:H5'	42:B0:24:ARG:CD	1.20	1.43
1:AA:359:U:H5'	2:AT:391:LYS:CA	1.24	1.43
18:B3:1875:A:H2'	21:BB:150:PRO:CG	1.45	1.43
18:B3:2704:C:N3	27:BH:121:LYS:HD2	1.21	1.43
1:AA:1071:C:OP2	6:AE:90:ARG:CG	1.65	1.43
1:AA:1117:G:O2'	9:AI:120:SER:CB	1.64	1.43
18:B3:2214:A:H2'	20:BA:106:LYS:CD	1.47	1.43
1:AA:559:A:N7	12:AL:36:THR:CG2	1.77	1.43
2:AT:138:GLN:NE2	18:B3:2698:G:H5"	1.14	1.43
13:AM:88:ARG:HH12	13:AM:115:ARG:NH1	0.98	1.43
18:B3:265:U:H5"	31:BL:55:LYS:NZ	1.17	1.43
18:B3:2350:G:OP1	29:BJ:139:ARG:CD	1.65	1.43
20:BA:108:ASN:CG	20:BA:162:VAL:CG2	1.87	1.43
1:AA:292:G:H2'	1:AA:609:A:C6	1.51	1.42
19:B4:69:U:O2'	24:BE:14:SER:CB	1.66	1.42
1:AA:66:G:H4'	1:AA:173:U:N1	1.30	1.42
1:AA:779:C:H5'	11:AK:132:ARG:CA	1.45	1.42
1:AA:920:U:H5'	1:AA:1080:A:N9	1.32	1.42
1:AA:1329:A:H5'	13:AM:98:TYR:CE1	1.51	1.42
2:AT:108:HIS:ND1	2:AT:540:ILE:HG13	1.25	1.42
6:AE:215:VAL:O	8:AH:129:TYR:CE2	1.72	1.42
18:B3:635:A:H5'	23:BD:91:ASN:ND2	1.26	1.42
18:B3:894:A:H5'	23:BD:57:HIS:CD2	0.90	1.42
18:B3:903:U:C4	41:BV:15:SER:HA	1.52	1.42
19:B4:51:A:C4	24:BE:58:LYS:CG	2.01	1.42
21:BB:179:LEU:CB	47:B9:20:SER:HB3	1.13	1.42
1:AA:436:C:C2	1:AA:496:A:H2'	1.54	1.42
1:AA:988:G:H1'	1:AA:1014:A:C3'	0.95	1.42
10:AJ:69:LYS:HB2	14:AN:39:ARG:CZ	0.94	1.42
18:B3:1002:G:C2'	28:BI:90:ARG:NH2	1.82	1.42
18:B3:1874:U:P	21:BB:127:ARG:HG3	1.58	1.42
18:B3:2368:A:C2	24:BE:150:LEU:HD23	1.55	1.42
19:B4:68:G:N2	24:BE:11:ALA:CB	1.81	1.42
22:BC:359:ASP:HB2	38:BS:16:GLY:C	1.40	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:43:VAL:CG1	32:BM:126:LEU:CB	1.75	1.42
1:AA:20:U:H4'	1:AA:573:A:C6	1.55	1.42
18:B3:170:U:H5"	31:BL:82:LYS:CD	1.45	1.42
18:B3:693:A:C5'	41:BV:59:TYR:CE1	2.02	1.42
18:B3:881:C:O2	45:BY:7:PHE:CE2	1.72	1.42
18:B3:1348:A:C2'	23:BD:39:THR:HA	1.43	1.42
1:AA:1302:U:C3'	13:AM:54:LEU:CD2	1.98	1.42
18:B3:953:G:OP2	36:BQ:13:TYR:CB	1.65	1.42
18:B3:1993:C:H5'	37:BR:71:LYS:CA	0.99	1.42
18:B3:2165:G:N3	20:BA:207:LYS:HE2	1.16	1.42
19:B4:48:C:H3'	24:BE:158:ARG:CG	1.50	1.42
1:AA:554:C:C1'	12:AL:45:GLY:HA3	1.46	1.41
3:AB:31:HIS:NE2	8:AH:21:LYS:HE3	1.32	1.41
18:B3:902:G:N7	41:BV:21:ILE:CD1	1.83	1.41
18:B3:921:G:C3'	41:BV:41:ARG:HG2	1.03	1.41
18:B3:1733:A:C8	22:BC:225:PHE:CE1	2.06	1.41
18:B3:2295:G:C5'	36:BQ:5:HIS:O	1.66	1.41
18:B3:2413:A:H1'	24:BE:175:HIS:N	1.30	1.41
18:B3:2671:U:H5"	22:BC:178:ALA:CB	1.49	1.41
18:B3:2808:U:O2'	22:BC:15:PHE:CA	1.66	1.41
37:BR:95:PHE:HB3	38:BS:22:VAL:CG1	1.38	1.41
1:AA:919:A:C4'	1:AA:1079:G:N2	1.79	1.41
1:AA:1126:U:C1'	1:AA:1280:A:H62	1.13	1.41
18:B3:698:A:OP1	41:BV:132:LEU:CG	1.68	1.41
18:B3:1358:A:H2'	23:BD:92:MET:CG	1.51	1.41
1:AA:523:A:N6	12:AL:113:ALA:HB1	1.23	1.41
1:AA:1309:G:C8	13:AM:92:ILE:CA	1.94	1.41
2:AT:738:GLN:HA	18:B3:1199:A:N6	1.11	1.41
18:B3:1370:G:C8	33:BN:62:PHE:HE1	1.30	1.41
18:B3:1447:U:C6	39:BT:70:THR:OG1	1.71	1.41
18:B3:1855:G:O2'	21:BB:155:LYS:CD	1.68	1.41
18:B3:2335:C:C2	29:BJ:116:ASP:HB3	0.91	1.41
1:AA:1148:U:H5'	9:AI:9:PHE:CE1	1.54	1.41
1:AA:1419:G:N3	18:B3:1990:C:H4'	1.10	1.41
6:AE:157:THR:HG23	8:AH:127:PHE:CD1	1.54	1.41
18:B3:448:G:N2	23:BD:47:GLN:HG2	1.12	1.41
18:B3:2468:A:N1	46:BZ:54:LYS:CB	1.80	1.41
19:B4:87:U:C6	25:BF:217:ARG:NH2	1.88	1.41
1:AA:12:U:C4'	1:AA:526:C:H5'	1.49	1.41
1:AA:400:C:H4'	5:AD:77:ILE:CD1	1.50	1.41
1:AA:554:C:O4'	12:AL:45:GLY:CA	1.64	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:76:SER:OG	14:AN:27:THR:CG2	1.65	1.41
18:B3:1875:A:C5'	21:BB:127:ARG:NH2	1.84	1.41
22:BC:70:GLU:HA	37:BR:88:ARG:CG	1.49	1.41
1:AA:1219:U:C3'	17:AS:58:LYS:CG	1.94	1.40
1:AA:1299:A:H5'	13:AM:57:ARG:NH1	1.29	1.40
1:AA:1329:A:N6	13:AM:95:GLY:N	1.68	1.40
2:AT:140:GLU:HG2	2:AT:481:MET:CA	1.51	1.40
18:B3:500:G:H21	33:BN:96:ASN:ND2	1.11	1.40
18:B3:541:C:C5	42:B0:15:LYS:CG	2.01	1.40
18:B3:843:A:OP2	33:BN:131:ALA:CB	1.68	1.40
18:B3:903:U:N3	41:BV:15:SER:HA	1.34	1.40
18:B3:1674:C:OP2	39:BT:111:THR:CA	1.67	1.40
18:B3:2347:C:N1	29:BJ:66:VAL:CG1	1.72	1.40
18:B3:2413:A:N3	24:BE:174:PRO:HB2	1.10	1.40
18:B3:2560:C:C5'	27:BH:168:ARG:HD2	1.49	1.40
19:B4:68:G:N2	24:BE:11:ALA:HB1	1.25	1.40
20:BA:55:LEU:CD1	20:BA:157:PHE:HA	1.51	1.40
20:BA:108:ASN:ND2	20:BA:162:VAL:CG2	1.84	1.40
1:AA:1300:G:C3'	13:AM:30:TYR:CD1	2.03	1.40
18:B3:20:G:O2'	33:BN:5:ALA:CA	1.68	1.40
18:B3:1131:G:C6	18:B3:2523:U:H5'	1.55	1.40
18:B3:1139:U:C5'	27:BH:62:ARG:HG3	1.51	1.40
1:AA:6:G:C1'	1:AA:298:A:O2'	1.67	1.40
1:AA:1332:A:OP2	13:AM:40:ARG:CD	1.69	1.40
1:AA:1406:U:C1'	1:AA:1518:A:H5'	1.50	1.40
18:B3:706:G:C2	34:BO:72:LYS:NZ	1.87	1.40
18:B3:1285:U:C5'	25:BF:155:ILE:HD13	1.47	1.40
18:B3:2093:G:N2	22:BC:257:ALA:HA	1.36	1.40
18:B3:2720:C:H5"	38:BS:33:ASN:ND2	1.35	1.40
18:B3:2819:C:C2	22:BC:100:SER:HB3	1.52	1.40
18:B3:670:G:N2	23:BD:231:SER:HB3	1.35	1.40
18:B3:1350:U:C6	23:BD:43:LYS:HD2	1.53	1.40
18:B3:1694:G:H21	45:BY:5:PRO:CD	1.34	1.40
18:B3:2136:G:C2	18:B3:2238:A:N1	1.87	1.40
1:AA:405:U:H3	5:AD:27:GLU:N	1.08	1.40
1:AA:988:G:C1'	1:AA:1014:A:H3'	1.49	1.40
1:AA:1150:U:C4'	10:AJ:59:PRO:HG2	1.18	1.40
1:AA:1300:G:O3'	13:AM:30:TYR:CD1	1.75	1.40
18:B3:433:C:H5'	31:BL:149:TRP:CZ3	1.55	1.40
18:B3:516:A:H1'	18:B3:1340:G:C5'	1.45	1.40
18:B3:2081:A:O2'	32:BM:69:PRO:CG	1.64	1.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2763:G:C3'	37:BR:14:SER:CB	1.97	1.40
22:BC:260:MET:CG	32:BM:66:THR:HG21	1.49	1.40
1:AA:231:G:N2	1:AA:263:A:C2	1.86	1.39
1:AA:560:U:H1'	1:AA:563:A:C4'	1.52	1.39
2:AT:140:GLU:CA	2:AT:481:MET:HG2	1.31	1.39
1:AA:143:A:C8	1:AA:200:G:H1'	1.55	1.39
1:AA:359:U:C5'	2:AT:391:LYS:CA	2.00	1.39
1:AA:988:G:N3	1:AA:1014:A:H2'	1.12	1.39
1:AA:1343:G:H5'	9:AI:138:GLN:CA	1.53	1.39
2:AT:749:LYS:CE	18:B3:2508:C:H5	1.36	1.39
10:AJ:71:PRO:CD	14:AN:36:ASN:OD1	1.71	1.39
10:AJ:78:THR:HG23	14:AN:39:ARG:CD	1.51	1.39
18:B3:27:U:O2	18:B3:1318:A:C6	1.75	1.39
18:B3:265:U:C5'	31:BL:55:LYS:NZ	1.83	1.39
18:B3:949:U:O4'	36:BQ:100:LYS:CB	1.68	1.39
18:B3:2081:A:O2'	32:BM:69:PRO:CB	1.69	1.39
18:B3:2093:G:H22	22:BC:257:ALA:CA	1.34	1.39
18:B3:2558:G:N2	18:B3:2799:A:N3	1.64	1.39
18:B3:2652:U:O2	22:BC:257:ALA:CB	1.70	1.39
1:AA:1309:G:H3'	13:AM:123:ARG:NH2	1.32	1.39
2:AT:501:LEU:CD1	12:AL:99:ASN:HB2	1.50	1.39
7:AG:111:ARG:NH2	9:AI:41:GLU:HB2	1.17	1.39
18:B3:676:C:O3'	23:BD:233:ASN:CA	1.70	1.39
1:AA:131:C:C6	16:AQ:128:ARG:HG3	1.50	1.39
13:AM:129:TRP:CH2	17:AS:121:ILE:HD13	1.56	1.39
18:B3:457:U:OP1	18:B3:1352:A:C2	1.73	1.39
19:B4:86:G:C4	25:BF:220:LYS:HG3	1.54	1.39
27:BH:63:LYS:HD2	32:BM:129:LYS:CB	0.96	1.39
1:AA:318:G:N2	1:AA:1434:A:C2	1.90	1.39
18:B3:541:C:C6	42:B0:15:LYS:CG	2.03	1.39
18:B3:1010:C:C4'	24:BE:15:ARG:HD3	1.35	1.39
19:B4:36:C:C5'	24:BE:181:PRO:C	1.88	1.39
22:BC:360:THR:H	38:BS:14:TYR:CB	1.34	1.39
1:AA:12:U:C4'	1:AA:526:C:C5'	1.98	1.38
1:AA:319:G:N3	1:AA:1434:A:C2	1.88	1.38
18:B3:1733:A:N9	22:BC:225:PHE:HE1	1.15	1.38
18:B3:2350:G:OP1	29:BJ:139:ARG:CG	1.68	1.38
18:B3:2763:G:C3'	37:BR:14:SER:HB2	1.49	1.38
19:B4:85:A:H5'	25:BF:131:PRO:CB	1.49	1.38
1:AA:364:A:N7	12:AL:78:LYS:HD3	1.38	1.38
1:AA:947:G:C5'	13:AM:143:ARG:NH2	1.85	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1086:U:C5'	1:AA:1389:C:C5'	2.00	1.38
1:AA:1301:U:H5'	13:AM:30:TYR:CA	1.53	1.38
18:B3:68:U:C5'	44:BX:55:LEU:HB2	1.51	1.38
18:B3:68:U:C2'	44:BX:55:LEU:HB3	1.27	1.38
18:B3:948:G:N3	36:BQ:100:LYS:CD	1.72	1.38
18:B3:2705:U:C5'	27:BH:122:LYS:CE	1.74	1.38
20:BA:108:ASN:CG	20:BA:162:VAL:HG23	1.02	1.38
21:BB:177:PRO:CD	47:B9:25:VAL:HG23	1.52	1.38
37:BR:95:PHE:CZ	38:BS:23:ARG:HG2	1.59	1.38
1:AA:58:C:O2'	1:AA:388:G:C6	1.76	1.38
1:AA:1219:U:C3'	17:AS:58:LYS:HG2	1.25	1.38
1:AA:1406:U:C6	1:AA:1518:A:H4'	1.57	1.38
18:B3:448:G:C2'	23:BD:195:ASN:HD21	1.30	1.38
18:B3:2819:C:C3'	22:BC:101:LEU:N	1.84	1.38
21:BB:47:ILE:CG1	47:B9:53:ILE:HG13	1.53	1.38
1:AA:321:A:C5'	1:AA:1437:C:H5'	1.44	1.38
1:AA:619:U:C2'	5:AD:129:ILE:HD13	1.50	1.38
1:AA:668:G:H1'	15:AO:104:ASN:ND2	1.08	1.38
1:AA:1406:U:C1'	1:AA:1518:A:C5'	1.99	1.38
1:AA:1484:C:OP1	18:B3:2001:G:N2	1.56	1.38
2:AT:501:LEU:CD1	12:AL:99:ASN:HD22	1.34	1.38
18:B3:67:A:N3	39:BT:60:LYS:NZ	1.68	1.38
18:B3:81:G:H5'	40:BU:74:TYR:N	1.36	1.38
18:B3:841:A:C8	33:BN:131:ALA:HB1	1.51	1.38
18:B3:1003:U:OP1	28:BI:90:ARG:CD	1.71	1.38
18:B3:1676:G:C4'	39:BT:115:PRO:HD3	1.52	1.38
18:B3:1694:G:C2	45:BY:5:PRO:CG	1.84	1.38
18:B3:1794:G:O2'	35:BP:96:ARG:CD	1.68	1.38
18:B3:1830:C:N4	21:BB:180:LYS:HE3	1.37	1.38
18:B3:1872:C:C4	21:BB:22:ARG:HG3	1.47	1.38
19:B4:6:C:C2	24:BE:72:ASP:OD2	1.73	1.38
18:B3:120:A:C2	45:BY:16:THR:HG21	1.57	1.38
18:B3:1745:G:C5'	37:BR:22:ILE:CD1	1.97	1.38
18:B3:1875:A:C3'	21:BB:150:PRO:HB2	1.52	1.38
18:B3:2166:G:N7	20:BA:61:PRO:HD3	1.34	1.38
1:AA:6:G:C4'	1:AA:298:A:O3'	1.71	1.37
1:AA:20:U:H4'	1:AA:573:A:N1	1.06	1.37
18:B3:676:C:C1'	23:BD:231:SER:O	1.70	1.37
18:B3:2654:C:H1'	22:BC:259:VAL:CG1	1.05	1.38
1:AA:143:A:H8	1:AA:200:G:C1'	1.36	1.37
1:AA:401:C:H5"	5:AD:78:ARG:CG	1.47	1.37

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:81:G:C5'	40:BU:74:TYR:N	1.88	1.37
18:B3:518:G:C5'	18:B3:1338:U:O2'	1.71	1.37
27:BH:63:LYS:CD	32:BM:129:LYS:HB3	1.25	1.37
1:AA:335:C:H1'	1:AA:1434:A:C8	1.53	1.37
1:AA:1071:C:P	6:AE:90:ARG:CB	2.11	1.37
18:B3:72:C:H5"	44:BX:49:LYS:NZ	1.31	1.37
18:B3:100:C:C1'	40:BU:24:SER:CB	1.93	1.37
18:B3:1381:A:C8	43:BW:25:LYS:CD	2.07	1.37
18:B3:2736:U:C3'	35:BP:61:ARG:HB2	1.53	1.37
19:B4:51:A:N3	24:BE:58:LYS:HB3	1.08	1.37
22:BC:359:ASP:OD1	38:BS:14:TYR:CB	1.71	1.37
30:BK:53:PHE:HD1	30:BK:86:LYS:NZ	1.12	1.37
1:AA:129:U:O2'	16:AQ:128:ARG:HA	1.23	1.37
1:AA:405:U:O2	5:AD:26:ALA:N	1.57	1.37
1:AA:1344:C:P	9:AI:136:ARG:HB3	1.63	1.37
18:B3:919:U:O2	41:BV:41:ARG:CA	1.71	1.37
18:B3:1181:A:N3	30:BK:105:GLN:HB3	1.40	1.37
18:B3:1287:A:N1	25:BF:106:ARG:NH1	1.69	1.37
18:B3:1674:C:OP1	39:BT:121:ALA:CB	1.69	1.37
18:B3:2087:C:C5'	33:BN:78:THR:HG21	1.53	1.37
18:B3:2415:A:C2	24:BE:35:ARG:NE	1.93	1.37
18:B3:2826:G:C2'	22:BC:124:SER:N	1.88	1.37
1:AA:190(E):U:P	16:AQ:130:ILE:CD1	2.12	1.37
1:AA:537:G:C5'	12:AL:143:PRO:HG3	1.51	1.37
1:AA:988:G:C4	1:AA:1014:A:C2'	2.00	1.37
18:B3:672:G:C8	23:BD:214:ILE:CG2	2.07	1.37
18:B3:882:A:C4'	45:BY:2:LYS:HA	1.52	1.37
18:B3:1055:G:C2	28:BI:108:ALA:HB3	1.58	1.37
18:B3:1134:G:C5'	18:B3:1229:C:O4'	1.70	1.37
18:B3:2335:C:N1	29:BJ:116:ASP:CB	1.81	1.37
26:BG:157:ASP:OD2	31:BL:40:ARG:HD3	1.25	1.37
1:AA:1321:C:C4	17:AS:81:ARG:HB2	1.48	1.36
1:AA:1329:A:N1	13:AM:94:ASP:C	1.75	1.36
10:AJ:69:LYS:HB2	14:AN:39:ARG:NH1	1.09	1.36
18:B3:26:U:H2'	18:B3:1319:G:C2'	0.92	1.36
18:B3:472:A:O3'	45:BY:48:TRP:CH2	1.76	1.36
18:B3:1733:A:C1'	22:BC:225:PHE:CD1	2.08	1.36
1:AA:668:G:C1'	15:AO:104:ASN:ND2	1.88	1.36
18:B3:1806:G:C4'	18:B3:2874:G:H1'	1.55	1.36
18:B3:1876:C:H2'	21:BB:131:ASN:ND2	1.40	1.36
19:B4:119:C:C2	24:BE:71:GLY:O	1.77	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:55:LEU:CD2	20:BA:167:VAL:HG22	1.54	1.36
18:B3:72:C:C5'	44:BX:49:LYS:HE2	1.51	1.36
18:B3:540:A:OP1	42:B0:18:LYS:CG	1.70	1.36
18:B3:1286:A:P	25:BF:155:ILE:HG23	1.65	1.36
18:B3:2468:A:N1	46:BZ:54:LYS:HB2	1.33	1.36
1:AA:66:G:C2	1:AA:69:G:C5	2.13	1.36
1:AA:293:G:H5'	1:AA:610:G:C4	1.59	1.36
18:B3:2274:A:O2'	31:BL:80:TYR:N	1.57	1.36
19:B4:98:C:O2'	25:BF:222:PHE:CE1	1.72	1.36
1:AA:254:G:O4'	16:AQ:79:MET:CE	1.73	1.36
18:B3:710:G:H5'	34:BO:44:PHE:CE2	1.59	1.36
20:BA:153:SER:N	20:BA:158:GLN:OE1	1.59	1.36
18:B3:449:A:C5'	18:B3:1306:U:C6	2.08	1.35
18:B3:2829:G:N3	22:BC:125:LYS:NZ	1.71	1.35
19:B4:87:U:O4'	25:BF:217:ARG:NH2	1.57	1.35
1:AA:33:A:C2	12:AL:47:SER:CB	2.07	1.35
1:AA:400:C:C4'	5:AD:77:ILE:CD1	2.04	1.35
1:AA:400:C:C3'	5:AD:77:ILE:HD13	1.56	1.35
1:AA:1177:G:O3'	9:AI:105:LYS:HD3	1.23	1.35
1:AA:1219:U:H3'	17:AS:58:LYS:CG	1.54	1.35
10:AJ:74:GLU:CG	14:AN:37:ILE:HD13	1.35	1.35
13:AM:88:ARG:NH1	13:AM:115:ARG:NH1	1.72	1.35
18:B3:1164:U:C6	30:BK:51:LYS:HG2	1.53	1.35
18:B3:2337:G:H1'	29:BJ:127:TYR:CA	1.55	1.35
18:B3:2408:A:H1'	46:BZ:19:HIS:CD2	1.58	1.35
18:B3:2614:C:H1'	22:BC:240:LYS:CD	1.45	1.35
19:B4:11:A:C4	24:BE:14:SER:HA	1.50	1.35
37:BR:92:PHE:CE1	38:BS:20:LEU:HD21	1.60	1.35
1:AA:538:G:P	12:AL:143:PRO:HD2	1.67	1.35
1:AA:1222:G:OP2	17:AS:81:ARG:NH1	1.59	1.35
1:AA:1307:U:H6	13:AM:144:ARG:NH2	1.16	1.35
2:AT:140:GLU:HB3	2:AT:481:MET:SD	1.65	1.35
18:B3:35:U:O2'	23:BD:48:ALA:CB	1.73	1.35
18:B3:1002:G:O2'	28:BI:90:ARG:CZ	1.73	1.35
18:B3:1206:C:C2'	18:B3:1207:A:H8	1.27	1.35
18:B3:1225:C:H4'	18:B3:1248:A:C2	1.61	1.35
18:B3:1674:C:P	39:BT:121:ALA:HB2	1.66	1.35
22:BC:69:ARG:CD	37:BR:89:ASP:HB2	1.56	1.35
22:BC:358:ILE:N	38:BS:15:PRO:CB	1.90	1.35
18:B3:693:A:H5"	41:BV:59:TYR:CD1	1.60	1.35
18:B3:1163:G:C5	30:BK:51:LYS:HE2	1.62	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1343:C:C2'	23:BD:188:ALA:HA	1.54	1.35
18:B3:1787:C:N3	18:B3:2883:A:O4'	1.56	1.35
22:BC:359:ASP:CB	38:BS:17:ARG:N	1.80	1.35
1:AA:254:G:C4'	16:AQ:79:MET:CE	2.05	1.35
1:AA:678:U:H5'	11:AK:127:LYS:CA	1.55	1.35
1:AA:925:G:H5'	1:AA:1399:C:OP2	1.22	1.35
1:AA:947:G:H5"	13:AM:143:ARG:NH2	1.05	1.35
18:B3:170:U:H6	46:BZ:49:PHE:CZ	1.44	1.35
18:B3:2165:G:O2'	20:BA:33:GLU:CB	1.72	1.35
22:BC:365:GLY:CA	38:BS:35:LYS:HG2	1.55	1.35
1:AA:545:C:H4'	5:AD:66:ASP:OD2	1.18	1.34
1:AA:1309:G:C1'	13:AM:92:ILE:HG12	1.44	1.34
18:B3:745:G:O6	34:BO:91:ALA:CB	1.75	1.34
18:B3:1055:G:N3	28:BI:108:ALA:HB3	1.39	1.34
19:B4:49:G:C8	24:BE:158:ARG:CD	2.03	1.34
27:BH:43:VAL:CB	32:BM:126:LEU:HB2	1.34	1.34
27:BH:62:ARG:HB3	32:BM:129:LYS:CE	1.43	1.34
1:AA:190(E):U:OP1	16:AQ:130:ILE:HD11	1.27	1.34
10:AJ:71:PRO:HD2	14:AN:36:ASN:CG	1.47	1.34
18:B3:693:A:C5'	41:BV:59:TYR:CD1	2.10	1.34
18:B3:1689:A:C4	33:BN:128:THR:HG21	1.61	1.34
18:B3:2652:U:C2'	22:BC:257:ALA:CB	2.04	1.34
1:AA:7:G:C5	6:AE:198:GLN:OE1	1.78	1.34
1:AA:634:C:C3'	16:AQ:92:TYR:OH	1.75	1.34
1:AA:1495:U:C2	1:AA:1517:G:N2	1.94	1.34
2:AT:137:VAL:O	2:AT:481:MET:CG	1.75	1.34
2:AT:749:LYS:CE	18:B3:2508:C:C5	2.10	1.34
18:B3:897:A:OP2	41:BV:26:LYS:HG3	1.17	1.34
18:B3:967:U:C1'	28:BI:34:TYR:HE2	1.40	1.34
18:B3:1869:A:H2'	21:BB:192:ARG:NH2	1.38	1.34
18:B3:2408:A:H1'	46:BZ:19:HIS:CE1	1.62	1.34
18:B3:2837:U:C6	22:BC:333:ARG:HD2	1.29	1.34
24:BE:16:PHE:CA	36:BQ:19:PHE:CE2	2.09	1.34
1:AA:990:C:C5	1:AA:1016:A:N3	1.93	1.34
18:B3:399:C:OP1	31:BL:180:ASN:CB	1.74	1.34
18:B3:401:C:C5'	31:BL:94:GLN:O	1.74	1.34
18:B3:764:C:C1'	23:BD:86:GLN:CB	1.92	1.34
18:B3:1098:A:OP2	25:BF:216:PRO:CB	1.76	1.34
18:B3:1855:G:C6	21:BB:149:LEU:HB3	1.61	1.34
18:B3:2415:A:H1'	24:BE:39:GLN:CD	1.46	1.34
21:BB:179:LEU:HB3	47:B9:20:SER:CB	1.53	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:12:U:C4'	1:AA:526:C:C4'	2.06	1.34
1:AA:190(E):U:O5'	16:AQ:109:HIS:CB	1.73	1.34
1:AA:677:U:H5	11:AK:121:PRO:CB	1.39	1.34
18:B3:52:A:C5'	45:BY:20:ARG:HH11	1.28	1.34
18:B3:449:A:H5'	18:B3:1306:U:C6	1.63	1.34
18:B3:537:G:C3'	42:B0:41:VAL:HG11	1.54	1.34
18:B3:710:G:H5'	34:BO:44:PHE:CD2	1.62	1.34
18:B3:945:U:C5'	25:BF:128:LEU:HD11	1.58	1.34
18:B3:1167:G:OP1	30:BK:45:ASP:HA	1.23	1.34
18:B3:1352:A:C4'	23:BD:102:THR:HG21	0.87	1.34
18:B3:2347:C:N1	29:BJ:66:VAL:HG13	1.29	1.34
18:B3:2705:U:C4'	27:BH:122:LYS:NZ	1.90	1.34
18:B3:2819:C:H3'	22:BC:100:SER:C	1.46	1.34
1:AA:121:C:N1	1:AA:235:C:N4	1.73	1.33
1:AA:1406:U:N1	1:AA:1518:A:H4'	1.43	1.33
2:AT:137:VAL:O	2:AT:481:MET:HG3	1.19	1.33
2:AT:141:THR:CG2	2:AT:483:PHE:HB3	1.55	1.33
10:AJ:71:PRO:CD	14:AN:42:PHE:HB2	1.54	1.33
13:AM:88:ARG:HH12	13:AM:115:ARG:CZ	1.39	1.33
18:B3:448:G:N3	23:BD:47:GLN:HG2	1.43	1.33
18:B3:449:A:H4'	18:B3:1306:U:C5	1.63	1.33
19:B4:44:A:O2'	29:BJ:140:ARG:CZ	1.76	1.33
19:B4:50:G:C5'	24:BE:94:ASN:HB2	1.57	1.33
37:BR:94:TYR:CD1	38:BS:21:PHE:CE2	1.87	1.33
1:AA:1362:C:O2	13:AM:137:HIS:CE1	1.81	1.33
18:B3:677:C:C3'	23:BD:256:LYS:HG2	1.58	1.33
18:B3:924:G:C6	41:BV:41:ARG:HB2	1.64	1.33
18:B3:1370:G:C6	33:BN:25:PHE:O	1.82	1.33
1:AA:121:C:C6	1:AA:235:C:C4	2.15	1.33
1:AA:364:A:P	12:AL:50:LYS:HG2	1.68	1.33
10:AJ:78:THR:HG23	14:AN:39:ARG:NE	1.30	1.33
18:B3:402:U:H4'	31:BL:69:ASN:ND2	1.36	1.33
18:B3:538:C:C5	42:B0:21:HIS:HE1	1.44	1.33
18:B3:2336:G:H4'	29:BJ:101:PHE:CE1	1.61	1.33
18:B3:2468:A:N7	46:BZ:55:PRO:HG3	1.40	1.33
18:B3:2663:U:H1'	18:B3:2816:A:N7	1.40	1.33
19:B4:34:A:N6	24:BE:95:TRP:CZ3	1.96	1.33
20:BA:55:LEU:HD23	20:BA:167:VAL:CA	1.54	1.33
1:AA:59:A:H5"	1:AA:388:G:C8	1.63	1.33
1:AA:1148:U:H5"	9:AI:9:PHE:CZ	1.63	1.33
1:AA:1329:A:C6	13:AM:94:ASP:C	1.99	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:170:U:OP1	31:BL:82:LYS:CA	1.76	1.33
18:B3:1095:U:O2'	25:BF:209:PRO:HB3	1.21	1.33
18:B3:1164:U:C6	30:BK:51:LYS:CB	2.12	1.33
18:B3:2520:G:H5"	28:BI:160:PRO:CA	1.56	1.33
18:B3:2671:U:H5"	22:BC:178:ALA:CA	1.35	1.33
19:B4:85:A:C1'	25:BF:228:PHE:CZ	2.11	1.33
18:B3:1993:C:C5'	37:BR:71:LYS:HA	1.29	1.33
18:B3:2663:U:C1'	18:B3:2816:A:C5	1.96	1.33
18:B3:2711:U:C1'	37:BR:41:GLY:O	1.76	1.33
18:B3:2808:U:O2'	22:BC:15:PHE:CB	1.74	1.33
18:B3:2820:A:O5'	22:BC:102:THR:N	1.60	1.33
18:B3:2898:G:H5"	22:BC:312:HIS:O	1.17	1.33
1:AA:119:A:C2	1:AA:238:G:H2'	1.63	1.32
1:AA:633:G:O3'	16:AQ:94:PRO:HA	1.27	1.32
1:AA:989:C:C5'	1:AA:1013:G:H1'	1.55	1.32
1:AA:1148:U:C5'	9:AI:9:PHE:CZ	2.10	1.32
18:B3:449:A:H5'	18:B3:1306:U:N1	1.00	1.32
18:B3:1287:A:N1	25:BF:106:ARG:CZ	1.92	1.32
18:B3:1371:U:H5'	33:BN:66:ILE:CD1	1.58	1.32
18:B3:1855:G:C6	21:BB:150:PRO:HD2	1.61	1.32
1:AA:1343:G:C5'	9:AI:137:PHE:O	1.74	1.32
18:B3:164:G:O3'	41:BV:31:ARG:CG	1.76	1.32
18:B3:471:G:H4'	45:BY:15:HIS:CE1	1.62	1.32
18:B3:500:G:N2	33:BN:96:ASN:ND2	1.78	1.32
18:B3:1227:C:O4'	32:BM:132:ARG:NH2	1.62	1.32
18:B3:1713:G:O2'	18:B3:2745:C:H1'	1.24	1.32
18:B3:2837:U:C2	22:BC:334:ILE:HA	1.62	1.32
24:BE:16:PHE:CA	36:BQ:19:PHE:CZ	2.10	1.32
1:AA:124:G:P	1:AA:289:G:N2	2.03	1.32
1:AA:1329:A:H2	13:AM:92:ILE:O	1.12	1.32
18:B3:67:A:C3'	44:BX:55:LEU:HD22	1.47	1.32
18:B3:945:U:O2'	25:BF:124:GLU:CB	1.71	1.32
18:B3:953:G:C5'	36:BQ:13:TYR:CD2	2.13	1.32
18:B3:1348:A:H5'	23:BD:241:ALA:CB	0.84	1.32
18:B3:1874:U:O5'	21:BB:127:ARG:CG	1.77	1.32
18:B3:2135:A:C2	18:B3:2239:C:N4	1.98	1.32
18:B3:2368:A:H2	24:BE:150:LEU:CD2	1.40	1.32
19:B4:69:U:C4'	24:BE:14:SER:HB2	1.56	1.32
1:AA:402:G:H1'	1:AA:620:C:C4	1.54	1.32
1:AA:1177:G:C8	9:AI:107:ALA:N	1.83	1.32
1:AA:1309:G:C5	13:AM:92:ILE:CG2	2.09	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1496:C:H5'	18:B3:1962:G:P	1.68	1.32
18:B3:81:G:O3'	40:BU:75:ARG:CG	1.78	1.32
18:B3:844:A:OP2	33:BN:130:ARG:HB2	1.29	1.32
18:B3:894:A:C2	23:BD:98:MET:CB	2.11	1.32
18:B3:1010:C:C4'	24:BE:15:ARG:CD	2.07	1.32
18:B3:1694:G:C2	45:BY:5:PRO:CD	2.08	1.32
18:B3:2093:G:O2'	22:BC:253:ALA:CA	1.78	1.32
18:B3:2347:C:O4'	29:BJ:66:VAL:HG12	1.29	1.32
18:B3:2413:A:C1'	24:BE:175:HIS:N	1.92	1.32
18:B3:2654:C:C1'	22:BC:259:VAL:CG1	1.85	1.32
1:AA:130:A:C8	16:AQ:135:ARG:CA	2.13	1.32
1:AA:1304:G:O6	13:AM:40:ARG:HB3	1.27	1.32
1:AA:1343:G:H4'	9:AI:137:PHE:C	1.46	1.32
18:B3:677:C:C5'	23:BD:256:LYS:HE2	1.59	1.32
18:B3:1371:U:C5'	33:BN:66:ILE:CD1	2.07	1.32
18:B3:2346:C:C1'	29:BJ:66:VAL:H	1.30	1.32
18:B3:2671:U:C5'	22:BC:178:ALA:CA	2.02	1.32
19:B4:44:A:O2'	29:BJ:140:ARG:NH1	1.61	1.32
26:BG:161:LEU:CD2	31:BL:3:TYR:CZ	2.11	1.32
18:B3:1267:C:O3'	42:B0:61:LYS:HG2	1.26	1.31
18:B3:1312:G:H1	23:BD:186:LEU:CD1	1.37	1.31
18:B3:1787:C:C4	18:B3:2883:A:O4'	1.81	1.31
18:B3:2797:C:P	27:BH:127:PRO:HG2	1.68	1.31
18:B3:79:G:C5'	40:BU:28:ARG:HB3	1.59	1.31
18:B3:778:C:H5"	45:BY:9:LYS:NZ	1.44	1.31
18:B3:1943:C:H4'	21:BB:218:ILE:CD1	1.57	1.31
18:B3:2459:G:OP1	46:BZ:86:ARG:CD	1.75	1.31
18:B3:2663:U:H1'	18:B3:2816:A:C5	1.07	1.31
18:B3:2853:U:H5"	22:BC:170:LEU:CG	1.60	1.31
1:AA:65:U:C1'	1:AA:382:A:N1	1.91	1.31
1:AA:537:G:O3'	12:AL:143:PRO:HD2	1.22	1.31
1:AA:619:U:O2'	5:AD:129:ILE:CD1	1.75	1.31
5:AD:91:LYS:C	6:AE:174:GLY:CA	1.99	1.31
18:B3:81:G:C4'	40:BU:74:TYR:O	1.78	1.31
18:B3:449:A:C5'	18:B3:1306:U:N1	1.91	1.31
18:B3:1794:G:C4'	35:BP:96:ARG:CG	2.06	1.31
18:B3:1837:G:O6	45:BY:2:LYS:HB2	1.18	1.31
1:AA:553:A:C2'	12:AL:45:GLY:CA	2.09	1.31
1:AA:988:G:H4'	1:AA:1013:G:O3'	1.22	1.31
1:AA:1309:G:OP1	13:AM:127:HIS:NE2	1.61	1.31
1:AA:1419:G:N2	18:B3:1990:C:H5'	1.40	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:75:GLY:CA	14:AN:40:GLN:HG2	1.60	1.31
18:B3:2048:C:C5'	33:BN:68:ARG:HD2	1.58	1.31
18:B3:2712:G:H5'	37:BR:42:SER:CB	1.59	1.31
22:BC:56:VAL:HG22	37:BR:89:ASP:O	1.17	1.31
1:AA:620:C:C5'	5:AD:129:ILE:HD12	1.61	1.31
1:AA:755:G:OP2	15:AO:123:ARG:HD2	1.29	1.31
1:AA:1319:A:OP1	17:AS:84:ILE:HD12	1.29	1.31
1:AA:1329:A:H5'	13:AM:98:TYR:CD2	1.66	1.31
18:B3:953:G:C3'	36:BQ:13:TYR:CE2	2.14	1.31
18:B3:1359:U:OP1	23:BD:92:MET:HE3	1.31	1.31
18:B3:1993:C:C4	37:BR:35:TYR:OH	1.83	1.31
18:B3:2676:C:OP1	32:BM:73:ARG:HD2	1.17	1.31
19:B4:11:A:N6	24:BE:16:PHE:H	1.23	1.31
1:AA:190(E):U:O5'	16:AQ:130:ILE:HD13	1.29	1.30
1:AA:579:G:O2'	15:AO:112:PHE:HE1	1.07	1.30
1:AA:1291:G:H5"	7:AG:111:ARG:NH2	1.44	1.30
1:AA:1300:G:H5'	13:AM:30:TYR:CZ	1.64	1.30
2:AT:140:GLU:HG2	2:AT:481:MET:N	0.99	1.30
18:B3:67:A:C3'	44:BX:55:LEU:HD21	1.45	1.30
18:B3:1119:G:H5'	32:BM:48:ARG:NE	1.41	1.30
18:B3:1164:U:C6	30:BK:51:LYS:CG	2.08	1.30
18:B3:1745:G:H5'	37:BR:22:ILE:CD1	1.58	1.30
18:B3:2245:C:C2	18:B3:2246:U:C5	2.04	1.30
18:B3:2720:C:C5'	38:BS:33:ASN:HD21	1.43	1.30
1:AA:1226:C:C6	17:AS:124:THR:O	1.82	1.30
2:AT:464:LEU:CD2	2:AT:510:ARG:HG2	1.60	1.30
18:B3:1733:A:N9	22:BC:225:PHE:CE1	1.98	1.30
18:B3:2214:A:H2'	20:BA:106:LYS:CG	1.59	1.30
18:B3:2890:A:C6	38:BS:50:ALA:O	1.82	1.30
20:BA:51:GLY:H	20:BA:54:LYS:N	1.22	1.30
30:BK:53:PHE:CE1	30:BK:86:LYS:HD2	1.64	1.30
1:AA:318:G:N1	1:AA:1434:A:C2	1.99	1.30
1:AA:1370:G:P	9:AI:123:PRO:HG3	1.72	1.30
10:AJ:68:ARG:CB	14:AN:39:ARG:HB2	1.50	1.30
18:B3:538:C:C6	42:B0:21:HIS:HE1	1.47	1.30
18:B3:1133:A:O2'	18:B3:2520:G:H1'	1.14	1.30
18:B3:1164:U:C6	30:BK:51:LYS:HB3	1.66	1.30
18:B3:2415:A:C1'	24:BE:39:GLN:CG	1.94	1.30
18:B3:2519:C:C6	28:BI:158:LYS:HE2	1.48	1.30
18:B3:2526:C:O4'	18:B3:2605:G:H5'	1.19	1.30
18:B3:2737:C:OP1	35:BP:62:THR:HG22	1.30	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:123:C:H5”	1:AA:312:C:O2’	1.19	1.30
1:AA:402:G:C1’	1:AA:620:C:C4	2.00	1.30
1:AA:560:U:C1’	1:AA:563:A:O4’	1.78	1.30
1:AA:1318:A:C4	17:AS:56:PHE:CE1	2.20	1.30
2:AT:138:GLN:NE2	18:B3:2698:G:C5’	1.91	1.30
10:AJ:70:THR:CB	14:AN:42:PHE:H	1.42	1.30
18:B3:1163:G:C5	30:BK:51:LYS:CD	2.15	1.30
18:B3:1227:C:C1’	32:BM:132:ARG:HH22	1.42	1.30
18:B3:1676:G:C3’	39:BT:115:PRO:CD	2.10	1.30
19:B4:36:C:C4’	24:BE:181:PRO:C	1.94	1.30
19:B4:47:A:P	24:BE:151:GLN:HG2	1.72	1.30
1:AA:404:U:O4	5:AD:70:LEU:HG	1.28	1.30
1:AA:633:G:O2’	16:AQ:94:PRO:CB	1.77	1.30
1:AA:928:G:H5’	1:AA:1533:C:C5	1.66	1.30
1:AA:989:C:O4’	1:AA:1015:A:C8	1.85	1.30
1:AA:1309:G:C6	13:AM:95:GLY:HA3	1.65	1.30
6:AE:153:LEU:HD11	8:AH:98:PHE:CB	1.61	1.30
18:B3:170:U:C5’	31:BL:82:LYS:CD	1.95	1.30
18:B3:480:C:O3’	18:B3:481:U:H5”	1.19	1.30
18:B3:890:C:C1’	45:BY:48:TRP:O	1.79	1.30
18:B3:921:G:C4’	41:BV:41:ARG:CG	1.87	1.30
18:B3:921:G:OP1	41:BV:39:HIS:CB	1.80	1.30
18:B3:2087:C:H4’	33:BN:78:THR:CG2	1.49	1.30
19:B4:97:U:N3	25:BF:220:LYS:CD	1.89	1.30
1:AA:124:G:C5’	1:AA:289:G:N2	1.94	1.29
1:AA:1177:G:C3’	9:AI:105:LYS:HD3	1.61	1.29
2:AT:108:HIS:ND1	2:AT:540:ILE:CG1	1.95	1.29
10:AJ:70:THR:OG1	14:AN:36:ASN:CB	1.78	1.29
18:B3:2466:G:OP1	41:BV:38:HIS:HB3	1.28	1.29
18:B3:2737:C:P	35:BP:62:THR:HG22	1.72	1.29
19:B4:69:U:H1’	24:BE:14:SER:OG	1.29	1.29
19:B4:97:U:N3	25:BF:220:LYS:HD3	1.00	1.29
37:BR:95:PHE:HB2	38:BS:21:PHE:CD1	1.27	1.29
1:AA:254:G:O4’	16:AQ:79:MET:HE3	1.14	1.29
1:AA:363:A:O3’	12:AL:50:LYS:HG2	1.13	1.29
1:AA:668:G:C1’	15:AO:104:ASN:HD21	1.41	1.29
18:B3:621:C:C5’	42:B0:36:LYS:N	1.94	1.29
18:B3:907:A:C8	18:B3:1328:A:H1’	1.47	1.29
18:B3:1137:G:O2’	18:B3:2784:A:H2	0.97	1.29
18:B3:1192:A:N7	30:BK:51:LYS:NZ	1.78	1.29
18:B3:2829:G:C2	22:BC:125:LYS:NZ	1.72	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:177:PRO:HD3	47:B9:25:VAL:CG2	1.59	1.29
1:AA:865:A:OP1	1:AA:1078:U:C1'	1.77	1.29
1:AA:924:C:O4'	1:AA:1398:A:C5	1.85	1.29
1:AA:1297:C:H6	13:AM:53:ASP:CG	1.35	1.29
1:AA:1348:U:O3'	9:AI:134:ARG:HB2	1.22	1.29
1:AA:1370:G:O5'	9:AI:123:PRO:HG3	1.22	1.29
18:B3:448:G:N3	23:BD:47:GLN:CG	1.94	1.29
18:B3:1449:G:H5'	39:BT:110:ASN:ND2	1.45	1.29
18:B3:1875:A:H2'	21:BB:150:PRO:CB	1.62	1.29
18:B3:2052:U:P	33:BN:23:VAL:CG2	2.16	1.29
18:B3:2093:G:C1'	22:BC:252:GLY:O	1.78	1.29
18:B3:2345:A:P	29:BJ:22:VAL:HG11	1.71	1.29
18:B3:2346:C:H5"	29:BJ:47:SER:C	1.50	1.29
19:B4:50:G:H5'	24:BE:94:ASN:CB	1.60	1.29
1:AA:20:U:C4'	1:AA:573:A:C6	2.13	1.29
1:AA:1318:A:C2	17:AS:82:ASN:CB	2.16	1.29
18:B3:67:A:C4	39:BT:60:LYS:NZ	1.92	1.29
18:B3:390:G:OP1	46:BZ:47:SER:HB2	1.17	1.29
18:B3:445:U:OP1	40:BU:14:LYS:CG	1.77	1.29
18:B3:897:A:P	41:BV:26:LYS:HG3	1.71	1.29
18:B3:1335:C:OP1	42:B0:100:ILE:HG23	1.30	1.29
18:B3:2347:C:C5	29:BJ:66:VAL:CG1	2.06	1.29
19:B4:86:G:OP1	25:BF:218:LYS:HG3	1.19	1.29
20:BA:55:LEU:CG	20:BA:167:VAL:HG22	1.62	1.29
1:AA:402:G:C8	1:AA:621:A:N3	2.01	1.29
1:AA:1180:A:C5'	9:AI:117:ILE:HD13	1.62	1.29
1:AA:1346:A:C5'	9:AI:134:ARG:HH22	1.43	1.29
6:AE:153:LEU:CD1	8:AH:98:PHE:HB3	1.61	1.29
18:B3:540:A:OP1	42:B0:18:LYS:HG2	1.16	1.29
18:B3:1310:U:P	23:BD:203:GLY:HA3	1.71	1.29
18:B3:2350:G:C2	29:BJ:116:ASP:HB2	1.64	1.29
1:AA:958:A:C4	17:AS:101:ALA:CB	2.16	1.28
3:AB:141:PRO:CD	8:AH:68:LEU:HD21	1.63	1.28
18:B3:164:G:H4'	41:BV:31:ARG:CG	1.60	1.28
18:B3:541:C:OP2	42:B0:15:LYS:HD2	1.27	1.28
18:B3:670:G:N2	23:BD:231:SER:CB	1.96	1.28
18:B3:676:C:O2	23:BD:231:SER:HB2	1.26	1.28
18:B3:1285:U:O3'	25:BF:155:ILE:HG23	1.11	1.28
18:B3:1304:U:C3'	23:BD:194:ARG:HB3	1.44	1.28
18:B3:1689:A:N1	33:BN:128:THR:HG23	1.48	1.28
18:B3:1806:G:H22	18:B3:2883:A:C3'	1.05	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:618:C:C3'	5:AD:142:ASN:OD1	1.81	1.28
1:AA:676:A:C8	11:AK:121:PRO:N	1.77	1.28
13:AM:89:GLN:HG3	13:AM:109:LEU:N	1.47	1.28
18:B3:92:G:N3	44:BX:42:PRO:CG	1.82	1.28
18:B3:445:U:OP1	40:BU:14:LYS:HG2	1.20	1.28
18:B3:882:A:O4'	45:BY:2:LYS:HA	1.17	1.28
18:B3:1397:C:O3'	35:BP:23:LEU:CB	1.71	1.28
18:B3:2468:A:C5	46:BZ:55:PRO:CG	2.15	1.28
18:B3:2840:A:P	22:BC:224:GLY:HA3	1.72	1.28
19:B4:35:C:O2	24:BE:185:PHE:CB	1.70	1.28
26:BG:161:LEU:HD22	31:BL:3:TYR:OH	1.21	1.28
1:AA:131:C:O3'	1:AA:264:U:H5'	1.33	1.28
1:AA:1177:G:C5'	9:AI:105:LYS:HD2	1.60	1.28
1:AA:1343:G:O3'	9:AI:136:ARG:HB3	1.19	1.28
18:B3:390:G:OP1	46:BZ:47:SER:CB	1.81	1.28
18:B3:745:G:C6	34:BO:91:ALA:HB2	1.67	1.28
18:B3:2050:G:O2'	33:BN:84:ALA:CB	1.80	1.28
18:B3:2136:G:N2	18:B3:2238:A:C6	2.01	1.28
18:B3:2328:U:OP1	24:BE:153:THR:CB	1.80	1.28
18:B3:2826:G:H2'	22:BC:123:LYS:C	1.51	1.28
19:B4:11:A:C5	24:BE:14:SER:HA	1.52	1.28
22:BC:71:VAL:H	37:BR:88:ARG:CA	1.38	1.28
1:AA:1309:G:O6	13:AM:95:GLY:HA3	1.11	1.28
10:AJ:75:GLY:CA	14:AN:40:GLN:CG	2.12	1.28
13:AM:129:TRP:CZ3	17:AS:121:ILE:HD13	1.68	1.28
18:B3:890:C:C2'	45:BY:48:TRP:O	1.81	1.28
18:B3:1415:G:C5'	45:BY:13:LYS:CE	2.12	1.28
18:B3:2520:G:OP1	28:BI:160:PRO:CG	1.78	1.28
18:B3:2709:G:C5	37:BR:7:GLN:NE2	2.00	1.28
19:B4:36:C:H5'	24:BE:181:PRO:O	1.15	1.28
1:AA:6:G:H4'	1:AA:298:A:C3'	1.61	1.28
1:AA:1226:C:C2	17:AS:126:VAL:O	1.87	1.28
1:AA:1227:A:OP1	17:AS:125:PRO:HB3	1.15	1.28
18:B3:78:G:C4'	40:BU:25:SER:OG	1.80	1.28
18:B3:111:C:O2'	18:B3:119:A:N6	1.64	1.28
18:B3:538:C:C6	42:B0:21:HIS:CE1	2.20	1.28
18:B3:672:G:O4'	23:BD:214:ILE:CG2	1.80	1.28
18:B3:1164:U:H2'	30:BK:51:LYS:CB	1.64	1.28
18:B3:1874:U:P	21:BB:127:ARG:CG	2.21	1.28
18:B3:175:G:H2'	31:BL:194:ASN:OD1	1.13	1.27
18:B3:1308:A:O2'	23:BD:204:PRO:HB3	1.27	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1359:U:C5'	23:BD:91:ASN:CB	2.10	1.27
18:B3:1872:C:N3	21:BB:22:ARG:CG	1.97	1.27
22:BC:70:GLU:CA	37:BR:88:ARG:CG	2.08	1.27
1:AA:621:A:OP2	5:AD:143:ILE:HG12	1.25	1.27
18:B3:52:A:H5'	45:BY:19:ASN:O	1.28	1.27
18:B3:710:G:OP1	34:BO:42:ALA:HB1	1.24	1.27
18:B3:750:A:C1'	23:BD:116:GLU:HG2	1.63	1.27
18:B3:1794:G:C5'	35:BP:97:ARG:HG3	1.65	1.27
18:B3:2345:A:OP2	29:BJ:22:VAL:HG11	1.33	1.27
18:B3:2468:A:C6	46:BZ:55:PRO:HD3	1.68	1.27
18:B3:2827:A:OP2	22:BC:122:TYR:HA	1.17	1.27
1:AA:25:C:H4'	12:AL:109:ARG:NE	1.48	1.27
1:AA:518:C:O2	12:AL:66:SER:N	1.63	1.27
1:AA:1220:G:C2'	17:AS:78:THR:O	1.74	1.27
6:AE:157:THR:CG2	8:AH:127:PHE:CE1	2.16	1.27
18:B3:26:U:C2'	18:B3:1319:G:H2'	1.50	1.27
18:B3:921:G:H4'	41:BV:41:ARG:CG	1.27	1.27
18:B3:1348:A:C5'	23:BD:241:ALA:CB	1.78	1.27
18:B3:2087:C:O4'	33:BN:78:THR:HG22	1.24	1.27
18:B3:2820:A:H1'	22:BC:89:VAL:CG1	1.63	1.27
27:BH:40:HIS:O	32:BM:126:LEU:HA	1.09	1.27
27:BH:62:ARG:CB	32:BM:129:LYS:HE2	1.56	1.27
1:AA:924:C:O4'	1:AA:1398:A:C4	1.86	1.27
1:AA:1177:G:C4'	9:AI:105:LYS:CD	2.13	1.27
1:AA:1177:G:C4'	9:AI:105:LYS:HD3	1.64	1.27
1:AA:1346:A:H5'	9:AI:134:ARG:NH2	1.49	1.27
10:AJ:70:THR:CG2	14:AN:40:GLN:N	1.97	1.27
18:B3:1806:G:C5'	18:B3:2874:G:O2'	1.81	1.27
18:B3:2214:A:N3	20:BA:106:LYS:HB2	1.45	1.27
1:AA:860:A:O3'	8:AH:18:LYS:NZ	1.67	1.27
1:AA:988:G:C4'	1:AA:1014:A:P	2.22	1.27
1:AA:1298:C:N4	7:AG:184:ARG:HH11	1.31	1.27
1:AA:1419:G:N3	18:B3:1990:C:C4'	1.98	1.27
2:AT:463:LEU:HA	2:AT:513:LYS:NZ	1.47	1.27
18:B3:73:C:OP1	44:BX:5:LYS:HA	1.27	1.27
18:B3:1131:G:C4	18:B3:2522:G:O3'	1.88	1.27
18:B3:2264:A:H5"	31:BL:92:LYS:NZ	1.45	1.27
18:B3:2829:G:C4	22:BC:125:LYS:NZ	1.68	1.27
19:B4:119:C:C6	24:BE:71:GLY:CA	2.18	1.27
27:BH:57:VAL:HG21	32:BM:126:LEU:CD1	1.65	1.27
1:AA:1329:A:C4'	13:AM:98:TYR:CD1	2.16	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:92:ILE:N	13:AM:109:LEU:CD1	1.96	1.26
18:B3:433:C:H4'	31:BL:149:TRP:CE3	1.70	1.26
18:B3:894:A:N3	23:BD:98:MET:HB3	1.45	1.26
18:B3:1163:G:C5	30:BK:51:LYS:CE	2.18	1.26
18:B3:1343:C:OP1	23:BD:192:LYS:CD	1.81	1.26
18:B3:1705:C:O3'	35:BP:65:HIS:HD2	1.15	1.26
18:B3:1732:A:H1'	18:B3:2840:A:P	1.72	1.26
18:B3:1869:A:H2'	21:BB:192:ARG:CZ	1.62	1.26
18:B3:2244:A:C5'	31:BL:27:TRP:CH2	2.18	1.26
18:B3:2669:U:O2	22:BC:131:LYS:HD3	1.15	1.26
19:B4:48:C:C3'	24:BE:158:ARG:CG	2.11	1.26
22:BC:70:GLU:CB	37:BR:88:ARG:HG2	1.65	1.26
1:AA:190(E):U:C5'	16:AQ:130:ILE:HD13	1.65	1.26
1:AA:538:G:P	12:AL:142:LYS:HG3	1.72	1.26
1:AA:1309:G:C3'	13:AM:92:ILE:CG1	1.82	1.26
2:AT:745:SER:OG	18:B3:2508:C:N4	1.68	1.26
18:B3:677:C:O3'	23:BD:256:LYS:HG2	1.24	1.26
18:B3:905:C:H5"	41:BV:11:ARG:CD	1.66	1.26
18:B3:906:C:C1'	18:B3:1329:A:C8	2.18	1.26
18:B3:1206:C:C2	18:B3:1207:A:C5	2.16	1.26
18:B3:1675:C:O5'	39:BT:113:VAL:HA	1.23	1.26
2:AT:137:VAL:CA	2:AT:481:MET:SD	2.23	1.26
18:B3:844:A:P	33:BN:130:ARG:HB2	1.74	1.26
18:B3:882:A:O4'	45:BY:2:LYS:CA	1.82	1.26
18:B3:1206:C:C2	18:B3:1207:A:N9	2.03	1.26
18:B3:1335:C:OP1	42:B0:100:ILE:CG2	1.83	1.26
18:B3:1593:C:OP1	35:BP:116:LYS:HB2	1.18	1.26
18:B3:2826:G:O2'	22:BC:124:SER:CA	1.84	1.26
18:B3:2826:G:O2'	22:BC:124:SER:HA	1.33	1.26
20:BA:108:ASN:OD1	20:BA:162:VAL:N	1.65	1.26
1:AA:633:G:O2'	16:AQ:94:PRO:HB3	1.12	1.26
1:AA:956:U:H1'	17:AS:126:VAL:CB	1.65	1.26
1:AA:1219:U:C2	17:AS:77:ARG:O	1.88	1.26
1:AA:1503:A:N7	1:AA:1531:A:N1	1.83	1.26
18:B3:537:G:C1'	42:B0:21:HIS:NE2	1.98	1.26
18:B3:1118:A:C5'	18:B3:1228:C:H5	1.46	1.26
18:B3:1154:A:C8	18:B3:1155:G:H2'	1.69	1.26
18:B3:1285:U:C5'	25:BF:155:ILE:HG21	1.64	1.26
18:B3:1304:U:C2'	23:BD:194:ARG:HB3	1.65	1.26
18:B3:1306:U:C5	23:BD:194:ARG:NH2	2.00	1.26
18:B3:2345:A:H5"	29:BJ:48:LYS:CD	1.54	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:318:G:N2	1:AA:1434:A:C6	2.04	1.26
1:AA:620:C:C5'	5:AD:129:ILE:CD1	2.13	1.26
1:AA:777:A:N7	11:AK:126:ARG:NH2	1.83	1.26
1:AA:1014:A:P	17:AS:72:LYS:HZ1	1.57	1.26
1:AA:779:C:H5'	11:AK:132:ARG:C	1.56	1.25
1:AA:1331:G:N7	13:AM:41:ARG:CB	1.99	1.25
2:AT:465:LYS:NZ	2:AT:511:LEU:CG	1.98	1.25
18:B3:618:G:C8	42:B0:46:PHE:HD1	1.30	1.25
18:B3:898:G:OP2	41:BV:25:ARG:HG3	1.27	1.25
18:B3:1806:G:H4'	18:B3:2874:G:C1'	1.66	1.25
18:B3:2165:G:N3	20:BA:207:LYS:CE	1.98	1.25
18:B3:2245:C:C6	18:B3:2246:U:H5	1.54	1.25
18:B3:2720:C:OP1	38:BS:33:ASN:CG	1.73	1.25
1:AA:102:G:H1'	1:AA:151:A:O2'	1.29	1.25
1:AA:143:A:C8	1:AA:200:G:C1'	2.13	1.25
1:AA:666:G:N2	15:AO:109:ASP:OD2	1.70	1.25
1:AA:988:G:H1'	1:AA:1014:A:C2'	1.54	1.25
18:B3:107:U:C1'	44:BX:56:THR:HB	1.64	1.25
18:B3:155:C:OP1	31:BL:190:TRP:CE3	1.89	1.25
18:B3:1003:U:OP1	28:BI:90:ARG:HD2	1.30	1.25
18:B3:1192:A:H61	30:BK:108:GLU:CD	1.25	1.25
18:B3:1243:C:H5"	32:BM:17:ARG:CZ	1.66	1.25
18:B3:1801:A:H5'	35:BP:88:LEU:CD1	1.65	1.25
18:B3:2413:A:C1'	24:BE:175:HIS:H	1.45	1.25
18:B3:2661:U:N3	18:B3:2812:A:N6	1.66	1.25
1:AA:21:G:C4'	1:AA:885:G:H5'	1.67	1.25
1:AA:130:A:H5"	1:AA:190(E):U:OP1	1.16	1.25
1:AA:335:C:C1'	1:AA:1434:A:C8	2.10	1.25
1:AA:877:C:H1'	8:AH:3:SER:OG	1.11	1.25
1:AA:713:G:C2	11:AK:124:SER:O	1.88	1.25
1:AA:956:U:O4'	17:AS:126:VAL:HB	1.32	1.25
1:AA:1344:C:OP1	9:AI:136:ARG:CD	1.84	1.25
10:AJ:70:THR:CA	14:AN:42:PHE:CB	1.97	1.25
18:B3:793:A:OP1	35:BP:83:THR:HG21	1.14	1.25
18:B3:814:G:H5'	35:BP:129:ASN:OD1	1.23	1.25
18:B3:1285:U:O3'	25:BF:155:ILE:CG2	1.83	1.25
18:B3:1708:C:C5	35:BP:81:LYS:HG2	1.71	1.25
18:B3:2736:U:H3'	35:BP:61:ARG:CB	1.65	1.25
22:BC:260:MET:CB	32:BM:66:THR:CG2	2.15	1.25
1:AA:553:A:OP1	12:AL:40:SER:CB	1.83	1.25
1:AA:956:U:C1'	17:AS:126:VAL:CG2	2.15	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:C2	13:AM:92:ILE:O	1.88	1.25
5:AD:91:LYS:HA	6:AE:173:ARG:O	1.33	1.25
10:AJ:73:GLY:CA	14:AN:25:SER:HB3	1.64	1.25
18:B3:2334:C:C2	29:BJ:114:LYS:C	2.10	1.25
18:B3:2424:U:O2'	36:BQ:6:GLY:HA3	1.33	1.25
18:B3:2545:U:O2'	22:BC:238:PRO:HG3	1.10	1.25
1:AA:523:A:N1	12:AL:116:ASP:N	1.83	1.25
10:AJ:69:LYS:CB	14:AN:39:ARG:NH1	1.90	1.25
18:B3:68:U:O5'	44:BX:55:LEU:CB	1.65	1.25
18:B3:90:A:O2'	44:BX:39:PRO:CG	1.83	1.25
18:B3:251:C:C1'	31:BL:139:LYS:CE	2.12	1.25
18:B3:399:C:OP1	31:BL:180:ASN:HB2	1.13	1.25
18:B3:2762:C:O2	37:BR:83:LYS:HE3	1.09	1.25
19:B4:49:G:OP2	24:BE:158:ARG:HB3	1.35	1.25
30:BK:53:PHE:HE1	30:BK:86:LYS:CD	1.48	1.25
1:AA:66:G:C4'	1:AA:173:U:O2	1.82	1.24
1:AA:190(E):U:O2	16:AQ:131:SER:HB2	1.32	1.24
1:AA:255:G:H5'	16:AQ:80:HIS:O	1.32	1.24
1:AA:989:C:C5'	1:AA:1013:G:N3	2.00	1.24
1:AA:1178:G:P	9:AI:105:LYS:CG	2.26	1.24
18:B3:1074:G:H5"	42:B0:45:ARG:CD	1.65	1.24
18:B3:1676:G:H5"	39:BT:115:PRO:CD	1.53	1.24
18:B3:1687:C:O2'	45:BY:8:GLY:HA3	1.21	1.24
18:B3:1733:A:H1'	22:BC:225:PHE:CD1	1.66	1.24
18:B3:1862:C:H5"	21:BB:7:GLN:OE1	1.18	1.24
18:B3:1942:A:O2'	21:BB:222:SER:HB2	1.35	1.24
18:B3:2460:A:O2'	46:BZ:60:LYS:HG3	1.09	1.24
19:B4:50:G:C2'	24:BE:93:THR:H	1.30	1.24
1:AA:131:C:O2'	1:AA:264:U:C6	1.83	1.24
1:AA:554:C:O4'	12:AL:45:GLY:N	1.65	1.24
1:AA:1307:U:C6	13:AM:144:ARG:NH2	1.79	1.24
1:AA:1308:U:OP1	13:AM:145:ARG:HD3	1.37	1.24
1:AA:1320:C:O2	17:AS:119:PHE:HD1	1.12	1.24
2:AT:463:LEU:CA	2:AT:513:LYS:NZ	2.00	1.24
18:B3:924:G:O6	41:BV:41:ARG:HB2	1.33	1.24
18:B3:1370:G:H5'	33:BN:63:ASN:N	1.15	1.24
18:B3:1446:U:OP1	39:BT:70:THR:HB	1.33	1.24
18:B3:1793:C:O3'	35:BP:97:ARG:HD3	1.32	1.24
18:B3:2413:A:C2'	24:BE:174:PRO:HB3	1.65	1.24
18:B3:2660:G:OP1	33:BN:71:GLN:NE2	1.71	1.24
18:B3:2737:C:O3'	35:BP:58:SER:O	1.52	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2764:C:C5'	37:BR:85:TRP:O	1.83	1.24
19:B4:11:A:C5	24:BE:14:SER:CA	2.11	1.24
19:B4:117:G:C4	24:BE:70:THR:HG22	1.43	1.24
20:BA:57:ASN:ND2	20:BA:155:ILE:CD1	2.00	1.24
1:AA:405:U:OP1	5:AD:37:LYS:HE2	1.27	1.24
7:AG:111:ARG:NH2	9:AI:41:GLU:CB	2.00	1.24
18:B3:449:A:H4'	18:B3:1306:U:C6	1.73	1.24
18:B3:520:A:H5'	18:B3:1321:A:O3'	1.36	1.24
18:B3:882:A:C4'	45:BY:2:LYS:CA	2.16	1.24
18:B3:1183:C:O2'	30:BK:85:LEU:HD12	1.35	1.24
18:B3:1674:C:O5'	39:BT:111:THR:HG23	1.31	1.24
18:B3:1809:G:C2	18:B3:2732:U:H5'	1.73	1.24
18:B3:2050:G:C2'	33:BN:84:ALA:HB3	1.44	1.24
18:B3:2336:G:C4'	29:BJ:101:PHE:CZ	2.21	1.24
18:B3:2346:C:H5"	29:BJ:47:SER:CA	1.67	1.24
18:B3:2387:U:O3'	36:BQ:88:ARG:CB	1.85	1.24
18:B3:2558:G:O2'	18:B3:2799:A:O3'	1.52	1.24
1:AA:553:A:OP1	12:AL:40:SER:HB3	1.09	1.24
1:AA:580:U:H4'	15:AO:115:ILE:CG2	1.67	1.24
1:AA:1332:A:OP2	13:AM:40:ARG:HD3	1.07	1.24
13:AM:92:ILE:HG13	13:AM:123:ARG:NH2	1.48	1.24
18:B3:676:C:O3'	23:BD:232:LEU:O	1.52	1.24
18:B3:677:C:OP1	23:BD:121:THR:HG23	1.25	1.24
18:B3:777:U:O2'	45:BY:10:ARG:CG	1.86	1.24
18:B3:882:A:C1'	45:BY:2:LYS:CG	2.16	1.24
18:B3:1181:A:C2	30:BK:105:GLN:CB	2.21	1.24
18:B3:1370:G:C5'	33:BN:63:ASN:N	1.99	1.24
18:B3:2387:U:O3'	36:BQ:88:ARG:HB3	1.32	1.24
18:B3:2404:G:C8	36:BQ:69:LYS:HD3	1.63	1.24
18:B3:2671:U:OP1	22:BC:178:ALA:CB	1.86	1.24
22:BC:359:ASP:OD1	38:BS:14:TYR:HB2	1.08	1.24
37:BR:92:PHE:CD1	38:BS:20:LEU:HD21	1.72	1.24
1:AA:293:G:O3'	1:AA:610:G:H1'	1.12	1.24
1:AA:405:U:O5'	5:AD:37:LYS:HE3	1.36	1.24
1:AA:676:A:C8	11:AK:120:VAL:C	1.98	1.24
18:B3:112:G:O2'	18:B3:114:A:C8	1.90	1.24
18:B3:1309:U:C5	23:BD:202:ARG:O	1.91	1.24
18:B3:2415:A:H2	24:BE:35:ARG:NE	1.29	1.24
1:AA:554:C:N1	12:AL:45:GLY:HA3	1.51	1.23
1:AA:989:C:O4'	1:AA:1015:A:N7	1.69	1.23
1:AA:1329:A:C4'	13:AM:98:TYR:CG	2.17	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:536:LEU:CD2	18:B3:2698:G:O2'	1.86	1.23
10:AJ:78:THR:OG1	14:AN:39:ARG:CZ	1.86	1.23
18:B3:111:C:OP1	18:B3:117:A:N6	1.65	1.23
18:B3:1025:C:O4'	25:BF:104:LEU:HD12	1.38	1.23
18:B3:1687:C:O2'	45:BY:8:GLY:CA	1.85	1.23
18:B3:2037:C:H3'	37:BR:47:ASN:ND2	1.27	1.23
18:B3:2245:C:N1	18:B3:2246:U:C5	1.87	1.23
18:B3:2283:G:N1	28:BI:105:CYS:HA	1.52	1.23
18:B3:2652:U:C2	22:BC:257:ALA:HB1	1.73	1.23
1:AA:131:C:H6	16:AQ:128:ARG:CG	1.51	1.23
1:AA:1221:G:OP1	17:AS:81:ARG:HA	1.33	1.23
2:AT:536:LEU:HD22	18:B3:2698:G:O2'	1.25	1.23
18:B3:53:C:H5'	18:B3:121:U:C3'	1.67	1.23
18:B3:537:G:H1'	42:B0:21:HIS:NE2	1.51	1.23
18:B3:672:G:O5'	23:BD:214:ILE:HG23	1.36	1.23
18:B3:1694:G:N3	45:BY:5:PRO:CD	1.99	1.23
18:B3:1872:C:N3	21:BB:22:ARG:HG3	1.53	1.23
18:B3:1872:C:O2	21:BB:23:GLN:O	1.56	1.23
18:B3:2244:A:H5"	31:BL:27:TRP:CZ3	1.72	1.23
18:B3:2442:G:OP1	41:BV:61:HIS:NE2	1.69	1.23
18:B3:2820:A:O5'	22:BC:101:LEU:C	1.75	1.23
19:B4:69:U:C1'	24:BE:14:SER:OG	1.86	1.23
19:B4:97:U:O2	25:BF:220:LYS:CD	1.82	1.23
1:AA:988:G:C4'	1:AA:1013:G:O3'	1.86	1.23
1:AA:1419:G:N2	18:B3:1990:C:C5'	1.94	1.23
6:AE:102:VAL:CG2	6:AE:189:LEU:CD2	2.15	1.23
10:AJ:71:PRO:CD	14:AN:36:ASN:CG	2.06	1.23
18:B3:20:G:H4'	33:BN:5:ALA:O	1.29	1.23
18:B3:620:A:O3'	42:B0:40:SER:CB	1.86	1.23
18:B3:906:C:N3	18:B3:1328:A:C5	2.07	1.23
18:B3:1003:U:O5'	28:BI:90:ARG:NE	1.68	1.23
18:B3:2735:U:OP2	35:BP:79:LYS:HE3	1.36	1.23
1:AA:318:G:H1'	1:AA:1468:A:O4'	1.35	1.23
1:AA:319:G:C4	1:AA:1434:A:N1	2.07	1.23
1:AA:401:C:OP1	5:AD:78:ARG:N	1.70	1.23
18:B3:170:U:OP1	31:BL:82:LYS:N	1.70	1.23
18:B3:1794:G:OP1	35:BP:97:ARG:HG2	1.09	1.23
18:B3:1885:A:O2'	47:B9:19:SER:HB3	1.38	1.23
18:B3:2565:C:N3	27:BH:171:ASP:HB3	1.54	1.23
18:B3:2806:C:H4'	22:BC:343:THR:CG2	1.67	1.23
31:BL:82:LYS:CE	46:BZ:49:PHE:HB3	1.60	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:21:G:O4'	1:AA:885:G:H5'	1.12	1.23
1:AA:318:G:N1	1:AA:1434:A:N3	1.86	1.23
1:AA:677:U:H5	11:AK:121:PRO:CG	1.52	1.23
1:AA:919:A:C4'	1:AA:1079:G:H22	1.43	1.23
1:AA:1081:G:OP2	6:AE:88:GLN:OE1	1.53	1.23
18:B3:68:U:OP1	39:BT:59:TYR:OH	1.55	1.23
18:B3:195:C:H5'	31:BL:178:LYS:CB	1.67	1.23
18:B3:449:A:H4'	23:BD:194:ARG:NH2	1.51	1.23
18:B3:1385:G:H4'	43:BW:49:ARG:O	1.37	1.23
18:B3:2349:G:H4'	29:BJ:15:LYS:NZ	1.52	1.23
18:B3:2552:C:C5'	18:B3:2553:A:C2	2.20	1.23
18:B3:2797:C:OP1	27:BH:127:PRO:CG	1.86	1.23
19:B4:8:G:N7	24:BE:21:ARG:HD3	1.53	1.23
22:BC:260:MET:HG3	32:BM:66:THR:CG2	1.67	1.23
1:AA:16:A:C2	1:AA:918:A:N1	1.98	1.22
1:AA:231:G:C2	1:AA:263:A:H2	1.55	1.22
1:AA:320:C:H4'	1:AA:1436:U:C2	1.72	1.22
1:AA:1503:A:H5'	1:AA:1530:G:N3	1.54	1.22
2:AT:140:GLU:CB	2:AT:481:MET:CE	2.16	1.22
10:AJ:71:PRO:HD2	14:AN:36:ASN:CB	1.68	1.22
18:B3:449:A:C4'	18:B3:1306:U:C6	2.21	1.22
18:B3:621:C:H5"	42:B0:36:LYS:N	1.34	1.22
18:B3:905:C:C2	18:B3:1330:A:N9	2.05	1.22
18:B3:907:A:C5'	18:B3:1328:A:H4'	1.68	1.22
18:B3:1118:A:H5'	18:B3:1228:C:C5	1.74	1.22
18:B3:1359:U:C5'	23:BD:91:ASN:HB2	1.59	1.22
18:B3:2093:G:C2	22:BC:257:ALA:O	1.90	1.22
18:B3:2214:A:C2'	20:BA:106:LYS:HD2	1.68	1.22
18:B3:2338:G:OP2	29:BJ:122:PHE:N	1.70	1.22
1:AA:21:G:H4'	1:AA:884:U:O3'	1.08	1.22
1:AA:65:U:O4'	1:AA:96:G:OP2	1.57	1.22
1:AA:634:C:H3'	16:AQ:92:TYR:OH	1.11	1.22
1:AA:1316:G:C2	17:AS:49:MET:HE2	1.73	1.22
1:AA:1329:A:N1	13:AM:94:ASP:O	1.68	1.22
18:B3:67:A:C5'	44:BX:55:LEU:HD23	1.69	1.22
18:B3:487:G:O5'	40:BU:90:VAL:HB	1.30	1.22
18:B3:745:G:O6	34:BO:91:ALA:HB2	1.07	1.22
18:B3:906:C:C2	18:B3:1329:A:C8	2.28	1.22
18:B3:1154:A:H8	18:B3:1155:G:C2'	1.50	1.22
18:B3:1352:A:OP2	23:BD:108:TRP:NE1	1.71	1.22
18:B3:1383:U:O2'	43:BW:32:VAL:HG12	1.36	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2820:A:C5'	22:BC:101:LEU:HB2	1.53	1.22
18:B3:2837:U:O2	22:BC:334:ILE:HA	1.06	1.22
1:AA:61:G:O2'	1:AA:387:U:H5'	1.39	1.22
1:AA:919:A:O4'	1:AA:1079:G:N2	1.70	1.22
1:AA:1071:C:OP1	6:AE:90:ARG:N	1.73	1.22
1:AA:1297:C:C6	13:AM:53:ASP:CG	2.12	1.22
18:B3:107:U:C1'	44:BX:56:THR:CB	2.13	1.22
18:B3:472:A:O3'	45:BY:48:TRP:HH2	1.13	1.22
18:B3:621:C:C5'	42:B0:36:LYS:H	1.47	1.22
18:B3:903:U:C4	41:BV:15:SER:CA	2.21	1.22
18:B3:968:G:O2'	28:BI:39:LYS:HG3	1.09	1.22
18:B3:1163:G:N9	30:BK:51:LYS:HG3	1.53	1.22
18:B3:1348:A:C2'	23:BD:39:THR:CA	2.04	1.22
18:B3:1501:A:OP2	35:BP:37:ARG:HG2	1.33	1.22
18:B3:1566:C:C4'	35:BP:56:VAL:CG1	2.01	1.22
18:B3:1677:U:P	39:BT:115:PRO:HD2	1.79	1.22
18:B3:1801:A:C5'	35:BP:88:LEU:HD11	1.68	1.22
18:B3:2165:G:C2'	20:BA:207:LYS:HE3	1.67	1.22
18:B3:2345:A:C1'	29:BJ:23:GLY:H	1.41	1.22
18:B3:2457:U:O3'	46:BZ:83:THR:HA	1.38	1.22
27:BH:57:VAL:CG2	32:BM:126:LEU:HD11	1.70	1.22
1:AA:70:G:N2	1:AA:101:A:N6	1.85	1.22
1:AA:125:U:H5'	1:AA:291:C:O4'	1.40	1.22
1:AA:1329:A:C5'	13:AM:98:TYR:CD2	2.17	1.22
1:AA:1505:G:C8	1:AA:1506:U:H6	1.58	1.22
18:B3:35:U:O2'	23:BD:48:ALA:HB3	1.07	1.22
18:B3:81:G:C3'	40:BU:75:ARG:HG3	1.68	1.22
18:B3:124:C:C5	39:BT:88:LYS:HD2	1.72	1.22
18:B3:1226:G:O2'	32:BM:132:ARG:NH1	1.71	1.22
18:B3:1243:C:H5'	32:BM:17:ARG:NH2	1.34	1.22
18:B3:1707:G:O2'	35:BP:81:LYS:HG3	1.36	1.22
18:B3:2579:G:H5'	18:B3:2680:A:O4'	1.38	1.22
20:BA:108:ASN:OD1	20:BA:162:VAL:HG23	1.38	1.22
1:AA:345:C:O2'	37:BR:133:SER:OG	1.57	1.22
1:AA:523:A:H61	12:AL:116:ASP:HB2	1.05	1.22
1:AA:988:G:N3	1:AA:1014:A:C2'	2.00	1.22
1:AA:1177:G:C8	9:AI:106:LYS:HG3	1.46	1.22
1:AA:1302:U:O5'	13:AM:54:LEU:HD23	1.06	1.22
18:B3:124:C:C5	39:BT:88:LYS:CD	2.20	1.22
18:B3:302:A:OP1	40:BU:28:ARG:NH2	1.73	1.22
18:B3:473:A:C5'	45:BY:48:TRP:CZ2	2.21	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:501:G:O4'	33:BN:16:ALA:CB	1.88	1.22
18:B3:672:G:C5'	23:BD:214:ILE:CD1	2.10	1.22
18:B3:751:U:OP1	23:BD:111:LYS:O	1.53	1.22
18:B3:921:G:O3'	41:BV:41:ARG:CG	1.81	1.22
18:B3:1285:U:H4'	25:BF:155:ILE:CG1	1.69	1.22
18:B3:2060:A:O2'	42:B0:24:ARG:HD3	1.32	1.22
18:B3:2087:C:H4'	33:BN:78:THR:CB	1.68	1.22
18:B3:2283:G:O6	28:BI:105:CYS:HB3	1.10	1.22
18:B3:2336:G:C4'	29:BJ:101:PHE:CE1	2.22	1.22
18:B3:2704:C:O2	27:BH:121:LYS:HB2	1.05	1.22
18:B3:2826:G:H2'	22:BC:123:LYS:CA	1.69	1.22
22:BC:365:GLY:HA3	38:BS:35:LYS:CG	1.68	1.22
31:BL:82:LYS:CD	46:BZ:49:PHE:CD1	1.86	1.22
37:BR:94:TYR:HD1	38:BS:21:PHE:CE2	1.35	1.22
1:AA:264:U:O2'	16:AQ:129:PRO:O	1.58	1.21
1:AA:292:G:H2'	1:AA:609:A:C5	1.73	1.21
1:AA:400:C:C5'	5:AD:77:ILE:HD12	1.70	1.21
1:AA:436:C:O2	1:AA:496:A:H2'	1.29	1.21
1:AA:619:U:O2'	5:AD:129:ILE:HD13	1.07	1.21
2:AT:465:LYS:HG3	2:AT:510:ARG:O	1.39	1.21
2:AT:536:LEU:CD1	18:B3:2699:A:H5'	1.69	1.21
5:AD:92:LYS:N	6:AE:174:GLY:HA3	1.53	1.21
18:B3:501:G:C5'	33:BN:16:ALA:HA	1.61	1.21
18:B3:618:G:H4'	42:B0:44:ARG:O	1.04	1.21
18:B3:620:A:O2'	42:B0:20:HIS:NE2	1.70	1.21
18:B3:672:G:C4'	23:BD:214:ILE:HG21	1.68	1.21
18:B3:1118:A:C5'	18:B3:1228:C:C5	2.24	1.21
18:B3:1192:A:N6	30:BK:108:GLU:CD	1.83	1.21
18:B3:1943:C:C5'	21:BB:218:ILE:CD1	2.19	1.21
18:B3:2244:A:C5'	31:BL:27:TRP:CZ3	2.23	1.21
18:B3:2336:G:H4'	29:BJ:101:PHE:CE2	1.74	1.21
1:AA:1408:A:H5'	18:B3:1960:A:P	1.80	1.21
6:AE:102:VAL:HG23	6:AE:189:LEU:CD2	1.69	1.21
18:B3:53:C:O2'	18:B3:122:C:OP2	1.56	1.21
18:B3:949:U:C1'	36:BQ:100:LYS:CB	2.13	1.21
18:B3:1847:A:N9	21:BB:180:LYS:HB3	1.23	1.21
18:B3:2657:G:OP1	22:BC:19:LYS:CB	1.69	1.21
18:B3:2709:G:N7	37:BR:7:GLN:NE2	1.86	1.21
18:B3:2762:C:O2'	37:BR:83:LYS:HD3	1.39	1.21
18:B3:2796:U:O3'	27:BH:127:PRO:HG2	1.32	1.21
18:B3:2819:C:O5'	22:BC:99:ARG:O	1.58	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:86:G:OP1	25:BF:218:LYS:CG	1.87	1.21
1:AA:65:U:O2'	1:AA:382:A:N1	1.72	1.21
1:AA:364:A:C5	12:AL:78:LYS:HD3	1.69	1.21
1:AA:928:G:H5'	1:AA:1533:C:C4	1.76	1.21
1:AA:1299:A:C5'	13:AM:57:ARG:NH1	1.93	1.21
2:AT:738:GLN:CA	18:B3:1199:A:N6	2.01	1.21
18:B3:195:C:C5'	31:BL:178:LYS:HB3	1.67	1.21
18:B3:2244:A:H4'	31:BL:27:TRP:CZ3	1.73	1.21
18:B3:2350:G:OP1	29:BJ:139:ARG:HG2	1.25	1.21
18:B3:2763:G:C3'	37:BR:14:SER:OG	1.83	1.21
18:B3:2837:U:O2	22:BC:334:ILE:CB	1.86	1.21
19:B4:85:A:C5'	25:BF:131:PRO:CB	2.19	1.21
1:AA:25:C:C4'	12:AL:109:ARG:CZ	2.16	1.21
1:AA:405:U:P	5:AD:37:LYS:HE3	1.79	1.21
1:AA:1177:G:O3'	9:AI:105:LYS:CD	1.87	1.21
1:AA:1239:A:N3	7:AG:184:ARG:NH1	1.86	1.21
2:AT:140:GLU:CB	2:AT:481:MET:CG	1.76	1.21
18:B3:81:G:O3'	40:BU:74:TYR:O	1.56	1.21
18:B3:124:C:H5	39:BT:88:LYS:CD	1.53	1.21
18:B3:1311:G:N7	23:BD:185:LYS:CB	2.04	1.21
18:B3:1733:A:C1'	22:BC:225:PHE:HD1	1.45	1.21
18:B3:1789:G:O2'	18:B3:2877:G:C1'	1.87	1.21
18:B3:2093:G:C2'	22:BC:253:ALA:CB	2.08	1.21
18:B3:2381:C:H1'	46:BZ:10:TYR:CD1	1.02	1.21
18:B3:2434:A:OP1	46:BZ:35:PHE:CG	1.93	1.21
18:B3:2808:U:O2'	22:BC:15:PHE:HA	1.22	1.21
18:B3:2853:U:C5'	22:BC:170:LEU:CD2	2.16	1.21
22:BC:260:MET:CG	32:BM:66:THR:CG2	2.17	1.21
1:AA:7:G:O4'	1:AA:298:A:C8	1.90	1.21
1:AA:111:G:O2'	1:AA:389:A:O2'	1.54	1.21
1:AA:255:G:C5'	16:AQ:80:HIS:O	1.89	1.21
1:AA:956:U:C1'	17:AS:126:VAL:HG21	1.71	1.21
1:AA:1299:A:C4'	13:AM:57:ARG:HH12	1.53	1.21
1:AA:1331:G:N7	13:AM:41:ARG:HB2	1.51	1.21
18:B3:1131:G:H5"	19:B4:91:C:O2	1.40	1.21
18:B3:1352:A:C4	23:BD:50:ALA:N	2.08	1.21
18:B3:1383:U:O2'	43:BW:29:PRO:HA	1.41	1.21
18:B3:1415:G:H5'	45:BY:13:LYS:CE	1.70	1.21
18:B3:2337:G:OP1	29:BJ:103:PHE:HB2	1.38	1.21
18:B3:2460:A:C5'	46:BZ:61:ALA:HA	1.69	1.21
20:BA:43:PRO:CB	20:BA:132:GLY:O	1.86	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:121:C:C6	1:AA:235:C:C5	2.29	1.20
1:AA:124:G:OP1	1:AA:289:G:N2	1.70	1.20
5:AD:91:LYS:CA	6:AE:173:ARG:O	1.89	1.20
18:B3:664:U:H5'	23:BD:114:HIS:CB	1.70	1.20
18:B3:1352:A:H4'	23:BD:102:THR:CG2	1.57	1.20
18:B3:1446:U:OP1	39:BT:70:THR:CB	1.88	1.20
18:B3:1761:U:C1'	35:BP:80:ARG:NH2	1.87	1.20
18:B3:2060:A:H4'	42:B0:25:TYR:CD1	1.74	1.20
18:B3:2345:A:C3'	29:BJ:48:LYS:HD3	1.70	1.20
18:B3:2388:C:P	36:BQ:88:ARG:HE	1.64	1.20
18:B3:2442:G:H5'	41:BV:60:PHE:CE2	1.75	1.20
18:B3:2711:U:H1'	37:BR:41:GLY:O	1.27	1.20
19:B4:35:C:N4	24:BE:95:TRP:CZ2	2.09	1.20
21:BB:27:LYS:HD2	21:BB:122:ARG:HB2	1.22	1.20
1:AA:7:G:C6	6:AE:198:GLN:OE1	1.89	1.20
1:AA:65:U:OP1	1:AA:96:G:H3'	1.40	1.20
1:AA:560:U:C1'	1:AA:563:A:C5'	2.19	1.20
1:AA:956:U:C1'	17:AS:126:VAL:HB	1.71	1.20
1:AA:1177:G:H4'	9:AI:105:LYS:CD	1.70	1.20
13:AM:91:ASP:HA	13:AM:109:LEU:O	1.21	1.20
18:B3:449:A:C5'	18:B3:1306:U:C1'	2.19	1.20
18:B3:501:G:O4'	33:BN:16:ALA:HB2	1.32	1.20
18:B3:1163:G:C4	30:BK:51:LYS:CG	2.23	1.20
18:B3:1164:U:C4	30:BK:51:LYS:HG2	1.59	1.20
18:B3:1309:U:C6	23:BD:204:PRO:HD3	1.70	1.20
18:B3:1676:G:C5'	39:BT:115:PRO:CG	2.17	1.20
18:B3:2050:G:H4'	33:BN:84:ALA:CB	1.54	1.20
18:B3:2167:A:N6	20:BA:60:ARG:HH21	1.38	1.20
18:B3:2678:A:O2'	22:BC:13:LEU:HB2	1.34	1.20
1:AA:59:A:H4'	1:AA:388:G:N9	1.57	1.20
2:AT:501:LEU:CD1	12:AL:99:ASN:ND2	2.04	1.20
10:AJ:78:THR:OG1	14:AN:39:ARG:NH2	1.74	1.20
18:B3:145:A:C5'	31:BL:137:GLN:HE21	1.53	1.20
18:B3:243:A:OP1	31:BL:2:ALA:HB2	1.38	1.20
18:B3:905:C:C2	18:B3:1330:A:C8	2.30	1.20
18:B3:906:C:H1'	18:B3:1329:A:C8	1.75	1.20
18:B3:1812:G:N2	18:B3:2732:U:H5"	1.54	1.20
18:B3:1837:G:O6	45:BY:2:LYS:CB	1.87	1.20
18:B3:2215:A:H5'	20:BA:107:TYR:CD1	1.77	1.20
18:B3:2345:A:C5'	29:BJ:48:LYS:HD3	1.63	1.20
18:B3:2913:A:N3	22:BC:124:SER:OG	1.74	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:30:C:N3	24:BE:57:ASN:CG	1.95	1.20
22:BC:71:VAL:O	37:BR:87:ARG:NH1	1.73	1.20
1:AA:989:C:H4'	1:AA:1013:G:N3	1.56	1.20
1:AA:1341:U:O2'	9:AI:140:SER:HA	1.39	1.20
6:AE:153:LEU:HD21	8:AH:98:PHE:N	1.55	1.20
18:B3:457:U:OP1	18:B3:1352:A:N3	1.71	1.20
18:B3:618:G:O4'	42:B0:46:PHE:O	1.56	1.20
18:B3:1807:U:H5'	18:B3:2884:G:N3	1.55	1.20
18:B3:2345:A:C4'	29:BJ:48:LYS:CD	2.12	1.20
18:B3:2350:G:N2	29:BJ:116:ASP:CB	2.05	1.20
18:B3:2846:C:O3'	22:BC:174:LYS:HE3	1.37	1.20
1:AA:59:A:H5"	1:AA:388:G:N7	1.57	1.20
1:AA:1300:G:C3'	13:AM:30:TYR:HD1	1.42	1.20
1:AA:1321:C:N3	17:AS:81:ARG:CB	2.04	1.20
5:AD:92:LYS:N	6:AE:174:GLY:CA	2.05	1.20
18:B3:251:C:C2'	31:BL:139:LYS:HE2	1.72	1.20
18:B3:921:G:C3'	41:BV:41:ARG:CG	1.99	1.20
18:B3:1010:C:H4'	24:BE:15:ARG:CG	1.71	1.20
18:B3:1689:A:N3	33:BN:128:THR:HG21	1.44	1.20
18:B3:2050:G:C4'	33:BN:84:ALA:HB2	1.66	1.20
18:B3:2061:C:C5'	42:B0:24:ARG:CD	2.15	1.20
18:B3:2136:G:N3	18:B3:2238:A:N1	1.90	1.20
18:B3:2661:U:C4	18:B3:2812:A:N6	2.10	1.20
18:B3:2663:U:O2	18:B3:2816:A:C4	1.94	1.20
18:B3:2738:G:C8	35:BP:59:LYS:NZ	2.08	1.20
21:BB:79:GLU:O	47:B9:64:ALA:C	1.79	1.20
1:AA:1220:G:O2'	17:AS:95:GLY:O	1.59	1.19
1:AA:1302:U:C4'	13:AM:54:LEU:HD21	1.69	1.19
2:AT:111:PHE:CE2	2:AT:483:PHE:CD2	1.93	1.19
18:B3:100:C:C1'	40:BU:24:SER:HG	1.52	1.19
18:B3:220:C:O2	41:BV:54:LYS:NZ	1.74	1.19
18:B3:706:G:N1	34:BO:72:LYS:NZ	1.78	1.19
18:B3:1133:A:O2'	18:B3:2520:G:C1'	1.87	1.19
18:B3:1335:C:P	42:B0:100:ILE:HG23	1.81	1.19
18:B3:1675:C:O5'	39:BT:113:VAL:CA	1.88	1.19
18:B3:2763:G:H3'	37:BR:14:SER:OG	1.07	1.19
20:BA:64:SER:O	20:BA:161:LYS:NZ	1.75	1.19
1:AA:779:C:C5'	11:AK:132:ARG:HB3	1.71	1.19
2:AT:757:GLU:CB	18:B3:1171:A:O2'	1.88	1.19
27:BH:41:ILE:O	32:BM:126:LEU:HB3	1.39	1.19
1:AA:131:C:C4'	1:AA:264:U:C4'	2.15	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1070:U:O3'	6:AE:90:ARG:HB2	1.08	1.19
1:AA:1240:U:C2	7:AG:189:ILE:HD12	1.51	1.19
1:AA:1309:G:O2'	13:AM:112:ASP:OD2	1.60	1.19
18:B3:157:G:O2'	31:BL:95:ARG:NH2	1.74	1.19
18:B3:672:G:C1'	23:BD:214:ILE:HG21	1.71	1.19
18:B3:675:U:O2'	23:BD:235:LEU:HD23	1.41	1.19
18:B3:1183:C:O2'	30:BK:85:LEU:HA	1.37	1.19
18:B3:1718:G:OP1	35:BP:20:LYS:NZ	1.76	1.19
18:B3:2345:A:H4'	29:BJ:48:LYS:CE	1.72	1.19
18:B3:2382:A:C8	46:BZ:10:TYR:CE2	2.30	1.19
19:B4:49:G:P	24:BE:158:ARG:HG2	1.83	1.19
20:BA:55:LEU:CD2	20:BA:167:VAL:CG2	2.19	1.19
1:AA:66:G:H4'	1:AA:173:U:C1'	1.59	1.19
1:AA:319:G:H1'	1:AA:1434:A:N1	1.57	1.19
1:AA:400:C:O3'	5:AD:77:ILE:HD13	1.41	1.19
1:AA:552:U:H5"	12:AL:106:GLY:C	1.33	1.19
1:AA:754:C:O4'	15:AO:127:TYR:CD1	1.96	1.19
1:AA:989:C:H4'	1:AA:1013:G:C2	1.78	1.19
1:AA:1179:A:OP2	9:AI:116:LEU:HB3	1.42	1.19
2:AT:464:LEU:HD22	2:AT:510:ARG:CG	1.72	1.19
18:B3:844:A:H5'	33:BN:133:GLY:CA	1.45	1.19
18:B3:1163:G:N7	30:BK:51:LYS:CD	2.03	1.19
18:B3:1206:C:C6	18:B3:1207:A:N7	2.10	1.19
18:B3:1348:A:C4'	23:BD:241:ALA:HB2	1.73	1.19
18:B3:1855:G:O6	21:BB:149:LEU:HB3	1.42	1.19
18:B3:2040:C:H5'	18:B3:2759:C:O2'	1.04	1.19
18:B3:2657:G:OP1	22:BC:19:LYS:HB3	1.40	1.19
20:BA:43:PRO:HG3	20:BA:132:GLY:HA3	1.24	1.19
22:BC:55:ILE:HB	22:BC:74:ALA:HB2	1.20	1.19
1:AA:25:C:O3'	12:AL:109:ARG:HD2	1.41	1.19
1:AA:62:U:O2'	1:AA:385:C:O2	1.55	1.19
1:AA:64:G:N3	1:AA:97:G:O6	1.75	1.19
1:AA:335:C:C2'	1:AA:1433:A:H2'	1.73	1.19
1:AA:1219:U:O2	17:AS:77:ARG:O	1.61	1.19
1:AA:1495:U:N3	1:AA:1517:G:N2	1.91	1.19
1:AA:1503:A:OP1	1:AA:1531:A:C4	1.94	1.19
18:B3:215:A:C5'	41:BV:58:ARG:CD	1.92	1.19
18:B3:1232:A:C8	18:B3:2525:G:H5'	1.77	1.19
18:B3:1383:U:O2'	43:BW:32:VAL:CG1	1.89	1.19
18:B3:2244:A:C4'	31:BL:27:TRP:CZ3	2.24	1.19
18:B3:2351:C:N3	29:BJ:115:TYR:CA	2.01	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2459:G:OP1	46:BZ:86:ARG:NE	1.74	1.19
18:B3:2795:C:O2'	27:BH:156:GLN:HG2	1.40	1.19
18:B3:2797:C:OP1	27:BH:127:PRO:HG3	1.39	1.19
18:B3:2827:A:OP2	22:BC:122:TYR:CA	1.90	1.19
18:B3:2845:G:C4'	22:BC:24:ILE:CG2	2.21	1.19
1:AA:59:A:C5'	1:AA:388:G:C8	2.24	1.18
1:AA:121:C:C1'	1:AA:235:C:H41	1.54	1.18
1:AA:754:C:O4'	15:AO:127:TYR:CE1	1.95	1.18
18:B3:20:G:O2'	33:BN:5:ALA:HA	1.01	1.18
18:B3:670:G:H22	23:BD:231:SER:CB	1.52	1.18
18:B3:924:G:C6	41:BV:41:ARG:CB	2.26	1.18
18:B3:1805:G:N2	18:B3:2882:G:O2'	1.76	1.18
18:B3:1853:C:O4'	21:BB:237:ILE:HD13	1.37	1.18
18:B3:1855:G:O6	21:BB:150:PRO:CD	1.91	1.18
18:B3:1874:U:O5'	21:BB:127:ARG:HG3	1.03	1.18
18:B3:2388:C:P	36:BQ:88:ARG:CB	2.27	1.18
1:AA:363:A:OP1	12:AL:76:LEU:CA	1.91	1.18
1:AA:560:U:C1'	1:AA:563:A:H5'	1.71	1.18
1:AA:1298:C:H5"	13:AM:57:ARG:NH2	1.59	1.18
1:AA:1320:C:N4	17:AS:116:LEU:CB	1.96	1.18
1:AA:1321:C:C2'	17:AS:81:ARG:HH21	1.57	1.18
6:AE:102:VAL:HG21	6:AE:189:LEU:CB	1.72	1.18
18:B3:539:G:C4	42:B0:50:ILE:HD13	1.76	1.18
18:B3:882:A:H5'	45:BY:1:GLY:O	1.36	1.18
18:B3:1154:A:C8	18:B3:1155:G:C2'	2.25	1.18
18:B3:1349:G:OP1	23:BD:36:THR:O	1.58	1.18
18:B3:2040:C:C5'	18:B3:2759:C:O2'	1.91	1.18
18:B3:2133:U:C4'	18:B3:2134:G:C5'	1.94	1.18
18:B3:2320:U:H2'	46:BZ:3:VAL:CG1	1.73	1.18
18:B3:2489:G:H2'	18:B3:2490:A:N7	1.56	1.18
18:B3:2655:U:O2'	22:BC:265:ARG:HB3	1.40	1.18
19:B4:30:C:C2	24:BE:57:ASN:CG	2.16	1.18
19:B4:47:A:O3'	24:BE:160:PHE:CE2	1.96	1.18
19:B4:85:A:O2'	25:BF:219:PHE:O	1.60	1.18
19:B4:86:G:P	25:BF:218:LYS:HG3	1.81	1.18
6:AE:204:ARG:HD2	6:AE:207:GLU:HB2	1.23	1.18
18:B3:29:C:H4'	18:B3:1342:C:OP1	1.44	1.18
18:B3:620:A:OP1	42:B0:41:VAL:HG12	1.40	1.18
18:B3:677:C:O2'	23:BD:256:LYS:CG	1.91	1.18
18:B3:1206:C:N1	18:B3:1207:A:C8	2.11	1.18
18:B3:1672:G:O3'	39:BT:91:LYS:HG3	1.40	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2520:G:C5'	28:BI:160:PRO:CA	2.17	1.18
21:BB:115:VAL:HG23	21:BB:125:LEU:HD13	1.24	1.18
23:BD:168:LEU:HD13	23:BD:174:HIS:HB2	1.26	1.18
1:AA:449:C:O4'	5:AD:131:GLN:O	1.61	1.18
1:AA:779:C:O5'	11:AK:132:ARG:HB3	1.41	1.18
2:AT:29:ASP:OD1	18:B3:2693:U:OP1	1.61	1.18
2:AT:757:GLU:HB3	18:B3:1171:A:O2'	1.03	1.18
3:AB:141:PRO:HD3	8:AH:68:LEU:CD2	1.74	1.18
10:AJ:68:ARG:HB3	14:AN:39:ARG:CB	1.74	1.18
18:B3:215:A:C4'	41:BV:58:ARG:NE	1.93	1.18
18:B3:697:G:O5'	41:BV:130:SER:OG	1.59	1.18
18:B3:698:A:OP1	41:BV:132:LEU:O	1.58	1.18
18:B3:782:G:O3'	21:BB:189:ARG:NH1	1.75	1.18
18:B3:815:U:O3'	18:B3:1598:A:H4'	1.40	1.18
18:B3:1115:U:H1'	18:B3:1224:G:O2'	1.36	1.18
18:B3:1312:G:N1	23:BD:186:LEU:HD11	1.25	1.18
18:B3:1708:C:C5	35:BP:81:LYS:CG	2.26	1.18
18:B3:1772:C:H5'	47:B9:15:VAL:CG1	1.72	1.18
18:B3:1806:G:H5'	18:B3:2874:G:O2'	1.02	1.18
18:B3:2061:C:C5'	42:B0:24:ARG:HD2	1.67	1.18
18:B3:2806:C:C4'	22:BC:343:THR:OG1	1.90	1.18
20:BA:43:PRO:HB2	20:BA:132:GLY:O	1.42	1.18
35:BP:31:ILE:HG21	35:BP:49:ILE:HD11	1.19	1.18
35:BP:48:THR:HG23	35:BP:49:ILE:HG12	1.19	1.18
1:AA:59:A:H5'	1:AA:388:G:C5	1.78	1.18
1:AA:190(D):U:C4	16:AQ:112:PRO:HD2	1.77	1.18
1:AA:705:U:O2'	11:AK:23:ASN:ND2	1.75	1.18
1:AA:988:G:H2'	1:AA:1015:A:N7	0.85	1.18
1:AA:1148:U:C5'	9:AI:9:PHE:CE1	2.25	1.18
1:AA:1227:A:OP1	17:AS:125:PRO:CB	1.90	1.18
1:AA:1320:C:O2	17:AS:119:PHE:CD1	1.97	1.18
1:AA:1321:C:C5'	17:AS:118:GLU:HA	1.73	1.18
2:AT:108:HIS:HB2	2:AT:536:LEU:HG	1.21	1.18
2:AT:745:SER:HG	18:B3:2508:C:N4	1.36	1.18
10:AJ:73:GLY:C	14:AN:25:SER:CB	2.11	1.18
18:B3:967:U:C1'	28:BI:34:TYR:CE2	2.25	1.18
18:B3:1508:C:H5"	39:BT:78:GLY:N	1.56	1.18
18:B3:1943:C:H5"	21:BB:218:ILE:CD1	1.74	1.18
18:B3:2671:U:O3'	22:BC:179:GLU:O	1.60	1.18
18:B3:2817:G:O5'	22:BC:96:ARG:NH2	1.74	1.18
18:B3:2845:G:C4'	22:BC:24:ILE:HG21	1.73	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:11:A:H62	24:BE:16:PHE:N	1.05	1.18
19:B4:30:C:N3	24:BE:57:ASN:CB	2.07	1.18
19:B4:35:C:O2'	24:BE:185:PHE:N	1.75	1.18
26:BG:149:LEU:HG	26:BG:210:LEU:HD21	1.18	1.18
1:AA:519:C:OP2	12:AL:67:ALA:HA	1.41	1.17
1:AA:1075:C:C4'	3:AB:103:PRO:HD2	1.71	1.17
2:AT:140:GLU:C	2:AT:481:MET:N	1.97	1.17
10:AJ:71:PRO:CD	14:AN:36:ASN:CB	2.23	1.17
13:AM:91:ASP:HA	13:AM:109:LEU:C	1.63	1.17
18:B3:401:C:C4'	31:BL:94:GLN:O	1.90	1.17
18:B3:448:G:H2'	23:BD:195:ASN:ND2	1.41	1.17
18:B3:676:C:O2	23:BD:231:SER:CB	1.91	1.17
18:B3:1705:C:H5'	35:BP:62:THR:HG21	1.23	1.17
18:B3:2413:A:N3	24:BE:174:PRO:CB	2.06	1.17
19:B4:99:U:H5'	25:BF:222:PHE:CE1	1.78	1.17
21:BB:47:ILE:HG13	47:B9:53:ILE:CG1	1.74	1.17
21:BB:47:ILE:HD11	47:B9:53:ILE:HD11	1.22	1.17
1:AA:121:C:C1'	1:AA:235:C:N4	2.06	1.17
1:AA:552:U:C5'	12:AL:106:GLY:C	2.12	1.17
1:AA:618:C:OP2	5:AD:141:VAL:HG22	1.45	1.17
1:AA:1219:U:H2'	17:AS:78:THR:HB	1.21	1.17
2:AT:539:GLU:OE2	18:B3:2699:A:H4'	1.41	1.17
10:AJ:72:ASN:ND2	14:AN:28:GLY:N	1.92	1.17
18:B3:1206:C:C2	18:B3:1207:A:C8	2.32	1.17
18:B3:1348:A:H5"	23:BD:35:HIS:HB2	1.26	1.17
18:B3:1350:U:C6	23:BD:43:LYS:CD	2.27	1.17
18:B3:1350:U:OP1	23:BD:110:VAL:HG12	1.42	1.17
18:B3:1447:U:C5	39:BT:70:THR:OG1	1.95	1.17
18:B3:1815:A:N3	18:B3:2746:A:C4	1.81	1.17
18:B3:2320:U:H2'	46:BZ:3:VAL:HG12	1.21	1.17
31:BL:82:LYS:CE	46:BZ:49:PHE:HD1	1.42	1.17
1:AA:20:U:C4'	1:AA:573:A:N1	2.03	1.17
1:AA:321:A:C5'	1:AA:1437:C:C5'	2.18	1.17
1:AA:599:C:C4'	8:AH:121:SER:HB2	1.73	1.17
1:AA:1014:A:P	17:AS:72:LYS:NZ	2.14	1.17
10:AJ:71:PRO:HD3	14:AN:42:PHE:HB2	1.21	1.17
18:B3:79:G:C4'	40:BU:27:ARG:NH1	2.07	1.17
18:B3:164:G:C3'	41:BV:31:ARG:HG3	1.73	1.17
18:B3:501:G:H5'	33:BN:16:ALA:HA	1.21	1.17
18:B3:677:C:O2'	23:BD:256:LYS:HG3	1.44	1.17
18:B3:1371:U:C5'	33:BN:66:ILE:HD12	1.68	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1787:C:C2	18:B3:2883:A:O4'	1.93	1.17
18:B3:2712:G:C5'	37:BR:42:SER:HB3	1.59	1.17
18:B3:2779:G:O2'	27:BH:163:GLN:HB3	1.38	1.17
1:AA:190(E):U:C2	16:AQ:131:SER:CB	2.27	1.17
1:AA:545:C:H4'	5:AD:66:ASP:CG	1.42	1.17
1:AA:677:U:C5	11:AK:121:PRO:CB	2.17	1.17
1:AA:1250:A:H4'	9:AI:71:GLY:CA	1.63	1.17
1:AA:1301:U:C5'	13:AM:30:TYR:N	2.08	1.17
1:AA:1316:G:C2	17:AS:49:MET:CE	2.27	1.17
1:AA:1343:G:O2'	9:AI:136:ARG:O	1.59	1.17
1:AA:1343:G:C4'	9:AI:137:PHE:C	2.12	1.17
2:AT:501:LEU:HD12	12:AL:99:ASN:CG	1.63	1.17
10:AJ:69:LYS:CE	14:AN:39:ARG:HH22	1.56	1.17
18:B3:1359:U:OP1	23:BD:92:MET:CE	1.92	1.17
18:B3:2396:C:O2'	41:BV:46:LYS:HE2	1.43	1.17
18:B3:2401:A:H1'	36:BQ:7:TYR:OH	1.45	1.17
18:B3:2413:A:OP1	24:BE:176:SER:HB3	1.02	1.17
18:B3:2441:U:O3'	41:BV:61:HIS:HE1	1.24	1.17
18:B3:2552:C:C4'	18:B3:2553:A:C2	2.13	1.17
18:B3:2826:G:H2'	22:BC:124:SER:N	1.55	1.17
18:B3:2838:A:OP1	22:BC:221:LYS:HB3	1.41	1.17
22:BC:304:ILE:HG12	22:BC:358:ILE:HG12	1.22	1.17
25:BF:167:ILE:HG22	25:BF:168:ILE:HD12	1.24	1.17
1:AA:1404:C:H2'	1:AA:1519:A:C4'	1.72	1.17
18:B3:106:A:O2'	44:BX:57:VAL:HA	1.43	1.17
18:B3:948:G:C2	36:BQ:100:LYS:HD2	1.79	1.17
18:B3:1370:G:N9	33:BN:62:PHE:HE1	1.14	1.17
18:B3:1815:A:N7	18:B3:2733:U:C2	2.13	1.17
18:B3:1847:A:O2'	21:BB:179:LEU:HA	1.42	1.17
18:B3:1869:A:C2'	21:BB:192:ARG:NH2	2.06	1.17
18:B3:1872:C:C4	21:BB:22:ARG:CG	2.25	1.17
18:B3:2335:C:C6	29:BJ:116:ASP:OD2	1.78	1.17
1:AA:6:G:H1'	1:AA:298:A:O2'	1.20	1.16
1:AA:580:U:C4'	15:AO:115:ILE:HG21	1.74	1.16
1:AA:988:G:H5'	1:AA:1014:A:OP1	1.42	1.16
1:AA:1298:C:N4	7:AG:184:ARG:NH1	1.94	1.16
1:AA:1443:G:H5"	1:AA:1446:A:H5'	1.27	1.16
18:B3:538:C:C5	42:B0:21:HIS:CE1	2.30	1.16
18:B3:1206:C:O2'	18:B3:1207:A:C5'	1.92	1.16
18:B3:1243:C:C5'	32:BM:17:ARG:CZ	2.20	1.16
18:B3:1285:U:H5"	25:BF:155:ILE:HG21	1.19	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1694:G:C2	45:BY:5:PRO:HD2	1.75	1.16
18:B3:2671:U:C5'	22:BC:178:ALA:HA	1.70	1.16
18:B3:2737:C:C6	35:BP:61:ARG:HG2	1.80	1.16
19:B4:48:C:H3'	24:BE:158:ARG:CB	1.43	1.16
21:BB:47:ILE:CG1	47:B9:53:ILE:CG1	2.23	1.16
21:BB:57:LEU:HD22	21:BB:76:ILE:HA	1.23	1.16
1:AA:130:A:OP2	16:AQ:136:PHE:C	1.84	1.16
1:AA:143:A:C8	1:AA:200:G:O2'	1.96	1.16
1:AA:190(D):U:O4	16:AQ:112:PRO:HD2	1.40	1.16
1:AA:1220:G:OP1	17:AS:80:MET:CE	1.94	1.16
10:AJ:78:THR:CG2	14:AN:39:ARG:HB3	1.74	1.16
18:B3:27:U:O2	18:B3:1318:A:N1	1.78	1.16
18:B3:68:U:C2'	44:BX:55:LEU:CB	2.23	1.16
18:B3:68:U:P	39:BT:59:TYR:OH	2.02	1.16
18:B3:100:C:C1'	40:BU:24:SER:OG	1.90	1.16
18:B3:164:G:O3'	41:BV:31:ARG:HG2	1.45	1.16
18:B3:450:C:H3'	18:B3:1304:U:O2'	1.42	1.16
18:B3:1676:G:H3'	39:BT:115:PRO:HD3	1.25	1.16
18:B3:1745:G:P	37:BR:22:ILE:HB	1.85	1.16
18:B3:2252:A:C8	21:BB:33:TYR:OH	1.97	1.16
18:B3:2295:G:H5"	36:BQ:5:HIS:O	0.98	1.16
18:B3:2413:A:O4'	24:BE:175:HIS:O	1.59	1.16
18:B3:2826:G:N3	22:BC:124:SER:CB	2.09	1.16
22:BC:358:ILE:H	38:BS:15:PRO:CB	1.54	1.16
1:AA:66:G:C5'	1:AA:173:U:N3	2.06	1.16
1:AA:877:C:C1'	8:AH:3:SER:OG	1.94	1.16
1:AA:1115:C:C5'	10:AJ:85:ARG:NH2	2.05	1.16
1:AA:1299:A:O2'	13:AM:30:TYR:HB2	1.44	1.16
1:AA:1314:C:C4	17:AS:49:MET:HA	1.79	1.16
18:B3:78:G:O4'	40:BU:25:SER:OG	1.59	1.16
18:B3:402:U:C5'	31:BL:69:ASN:ND2	2.07	1.16
18:B3:751:U:C5'	23:BD:36:THR:HG21	1.75	1.16
18:B3:1167:G:N3	30:BK:110:ILE:CB	2.01	1.16
18:B3:2347:C:O2	29:BJ:18:LEU:O	1.61	1.16
19:B4:37:C:O2	24:BE:154:THR:HG22	1.43	1.16
27:BH:63:LYS:CE	32:BM:129:LYS:HB3	1.76	1.16
33:BN:39:GLU:HG2	33:BN:42:LYS:HB2	1.26	1.16
33:BN:43:ALA:HA	33:BN:46:TYR:HB2	1.27	1.16
45:BY:36:CYS:HA	45:BY:44:ARG:HB2	1.20	1.16
1:AA:318:G:N2	1:AA:1434:A:N1	1.92	1.16
1:AA:865:A:O2'	1:AA:1079:G:N2	1.79	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1178:G:OP1	9:AI:105:LYS:HG2	1.41	1.16
1:AA:1309:G:C5	13:AM:92:ILE:HB	1.80	1.16
1:AA:1344:C:P	9:AI:136:ARG:NE	2.19	1.16
1:AA:1362:C:N3	13:AM:137:HIS:CE1	1.89	1.16
18:B3:164:G:C4'	41:BV:31:ARG:CG	2.16	1.16
18:B3:841:A:C8	33:BN:131:ALA:CB	1.98	1.16
18:B3:844:A:C5'	33:BN:133:GLY:CA	2.22	1.16
18:B3:924:G:C6	41:BV:41:ARG:CG	2.28	1.16
18:B3:1153:C:O5'	18:B3:1155:G:H8	1.23	1.16
18:B3:1181:A:N3	30:BK:105:GLN:CB	2.08	1.16
18:B3:1225:C:C4'	18:B3:1248:A:H2	1.59	1.16
18:B3:1348:A:H2'	23:BD:39:THR:CA	1.67	1.16
18:B3:1501:A:C5'	35:BP:37:ARG:HD3	1.75	1.16
18:B3:1812:G:N3	18:B3:2732:U:C5'	2.08	1.16
18:B3:2050:G:C4'	33:BN:84:ALA:CB	2.11	1.16
18:B3:2328:U:H5"	24:BE:153:THR:OG1	1.45	1.16
18:B3:2652:U:H2'	22:BC:257:ALA:CB	1.68	1.16
18:B3:2846:C:O3'	22:BC:174:LYS:CE	1.94	1.16
20:BA:205:VAL:HG11	20:BA:213:ALA:HB1	1.18	1.16
21:BB:43:ILE:H	21:BB:61:VAL:HG12	1.07	1.16
33:BN:67:GLY:HA2	33:BN:79:LYS:HB3	1.23	1.16
33:BN:91:GLN:HA	33:BN:94:LEU:HD12	1.25	1.16
1:AA:21:G:C4'	1:AA:884:U:O3'	1.94	1.16
1:AA:318:G:N2	1:AA:1434:A:C5	2.14	1.16
1:AA:320:C:H1'	1:AA:1435:G:H2'	1.22	1.16
1:AA:1296:C:H5"	13:AM:53:ASP:N	1.40	1.16
1:AA:1298:C:OP1	13:AM:55:HIS:O	1.64	1.16
1:AA:1300:G:C3'	13:AM:30:TYR:CE1	2.28	1.16
1:AA:1318:A:C8	17:AS:54:ALA:CB	2.27	1.16
3:AB:26:ARG:HB2	3:AB:44:VAL:HG12	1.26	1.16
18:B3:81:G:O3'	40:BU:75:ARG:HG3	0.98	1.16
18:B3:921:G:OP1	41:BV:39:HIS:HB3	1.00	1.16
18:B3:1056:U:C4'	28:BI:8:CYS:CB	2.19	1.16
18:B3:1164:U:C5	30:BK:51:LYS:CG	2.25	1.16
18:B3:1235:G:C6	32:BM:69:PRO:CD	2.29	1.16
18:B3:1811:A:N3	18:B3:2752:C:O2	1.79	1.16
18:B3:2346:C:O4'	29:BJ:64:ILE:HG13	1.41	1.16
18:B3:2413:A:OP1	24:BE:176:SER:CB	1.94	1.16
18:B3:2424:U:C5'	36:BQ:7:TYR:HD2	1.57	1.16
18:B3:2781:U:O4'	27:BH:155:SER:HB2	1.40	1.16
27:BH:34:LEU:HD21	27:BH:149:ASN:HB3	1.25	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190(E):U:O5'	16:AQ:109:HIS:CG	2.00	1.15
1:AA:318:G:N2	1:AA:1434:A:C4	2.13	1.15
1:AA:1125:U:H3	10:AJ:23:ARG:NE	1.45	1.15
18:B3:124:C:C5	39:BT:88:LYS:CE	2.29	1.15
18:B3:1010:C:H4'	24:BE:15:ARG:CD	1.73	1.15
18:B3:1370:G:C8	33:BN:27:ASN:CG	2.20	1.15
18:B3:1370:G:C6	33:BN:24:SER:HB3	1.80	1.15
18:B3:1566:C:H5"	35:BP:57:HIS:CE1	1.82	1.15
18:B3:2081:A:O2'	32:BM:69:PRO:HB3	1.44	1.15
18:B3:2136:G:N2	18:B3:2238:A:C2	2.14	1.15
18:B3:2333:G:O2'	29:BJ:113:ILE:HG13	1.45	1.15
18:B3:2614:C:C1'	22:BC:240:LYS:HD3	1.61	1.15
18:B3:2671:U:H5"	22:BC:178:ALA:HB1	1.26	1.15
18:B3:2817:G:P	22:BC:96:ARG:NH2	2.17	1.15
1:AA:358:U:C5'	2:AT:390:ASP:OD1	1.93	1.15
12:AL:112:LYS:HE2	12:AL:121:ARG:HD3	1.16	1.15
18:B3:35:U:H4'	23:BD:104:THR:OG1	1.45	1.15
18:B3:111:C:C2'	18:B3:119:A:H61	1.58	1.15
18:B3:1119:G:C5'	32:BM:48:ARG:HE	1.58	1.15
18:B3:1153:C:OP1	18:B3:1155:G:OP2	1.62	1.15
18:B3:1163:G:C5	30:BK:51:LYS:HG3	1.82	1.15
18:B3:1675:C:H5"	39:BT:118:THR:O	1.41	1.15
18:B3:1689:A:C6	33:BN:128:THR:HG23	1.81	1.15
18:B3:1708:C:C6	35:BP:81:LYS:CG	2.29	1.15
18:B3:2215:A:H5'	20:BA:107:TYR:CG	1.80	1.15
18:B3:2328:U:OP1	24:BE:153:THR:CG2	1.93	1.15
18:B3:2397:G:N7	41:BV:46:LYS:NZ	1.92	1.15
22:BC:71:VAL:HG12	37:BR:87:ARG:C	1.67	1.15
26:BG:152:ILE:HG12	26:BG:162:VAL:HG21	1.26	1.15
1:AA:21:G:C1'	1:AA:885:G:H5'	1.75	1.15
1:AA:1152:A:O3'	10:AJ:31:VAL:HG21	1.46	1.15
1:AA:1219:U:H3'	17:AS:58:LYS:HG3	1.26	1.15
1:AA:1298:C:C5'	13:AM:57:ARG:NH2	2.10	1.15
1:AA:1321:C:C4	17:AS:81:ARG:CB	2.28	1.15
2:AT:138:GLN:HE21	18:B3:2698:G:C5'	1.53	1.15
3:AB:141:PRO:N	8:AH:68:LEU:HD11	1.62	1.15
11:AK:48:LYS:HE3	11:AK:48:LYS:HA	1.29	1.15
16:AQ:93:ILE:HD11	16:AQ:96:TYR:HB2	1.16	1.15
18:B3:93:C:O4'	44:BX:42:PRO:CB	1.94	1.15
18:B3:145:A:H5'	31:BL:137:GLN:HE21	1.11	1.15
18:B3:616:U:C3'	42:B0:47:ARG:HG2	1.77	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1415:G:H5'	45:BY:13:LYS:HE2	1.22	1.15
18:B3:1742:A:H4'	18:B3:2723:G:P	1.83	1.15
18:B3:1845:A:OP1	21:BB:199:ARG:NH1	1.77	1.15
18:B3:2051:G:OP1	33:BN:86:SER:N	1.79	1.15
19:B4:36:C:H2'	24:BE:156:GLY:N	1.59	1.15
19:B4:49:G:OP2	24:BE:158:ARG:CB	1.95	1.15
19:B4:51:A:N1	24:BE:58:LYS:CG	1.85	1.15
21:BB:17:SER:HB3	21:BB:192:ARG:HG3	1.15	1.15
25:BF:87:ARG:HA	25:BF:133:VAL:HG12	1.17	1.15
27:BH:43:VAL:HG13	32:BM:126:LEU:HA	1.21	1.15
1:AA:21:G:H1'	1:AA:885:G:O4'	1.46	1.15
1:AA:118:U:O2	1:AA:123:C:H1'	1.43	1.15
1:AA:579:G:O2'	15:AO:112:PHE:CE1	1.81	1.15
1:AA:1179:A:OP1	9:AI:116:LEU:HG	1.43	1.15
18:B3:68:U:C4'	44:BX:55:LEU:HB2	1.75	1.15
18:B3:194:A:O3'	31:BL:178:LYS:CB	1.93	1.15
18:B3:540:A:OP1	42:B0:18:LYS:CB	1.94	1.15
18:B3:953:G:C3'	36:BQ:13:TYR:CZ	2.30	1.15
18:B3:1226:G:H5"	18:B3:1244:U:O2	1.46	1.15
18:B3:1862:C:C5'	21:BB:7:GLN:OE1	1.93	1.15
18:B3:1875:A:C2'	21:BB:150:PRO:CB	2.18	1.15
18:B3:2347:C:C1'	29:BJ:66:VAL:HG12	1.76	1.15
18:B3:2560:C:H1'	18:B3:2776:A:C2	1.81	1.15
18:B3:2737:C:C6	35:BP:61:ARG:N	2.15	1.15
24:BE:110:LEU:HA	24:BE:115:LEU:HG	1.28	1.15
1:AA:66:G:N1	1:AA:69:G:C6	2.14	1.15
1:AA:99:C:H4'	1:AA:101:A:N7	1.62	1.15
1:AA:618:C:H3'	5:AD:142:ASN:OD1	1.34	1.15
1:AA:634:C:H3'	16:AQ:92:TYR:CE2	1.81	1.15
1:AA:994:A:C5	1:AA:1046:A:N3	2.14	1.15
1:AA:1405:G:C4	1:AA:1519:A:O4'	1.98	1.15
1:AA:1501:C:OP1	1:AA:1508:G:C8	2.00	1.15
18:B3:53:C:C1'	18:B3:122:C:OP2	1.89	1.15
18:B3:215:A:H4'	41:BV:58:ARG:NE	1.53	1.15
18:B3:539:G:C5	42:B0:50:ILE:CD1	2.30	1.15
18:B3:750:A:H1'	23:BD:116:GLU:CG	1.76	1.15
18:B3:919:U:C2'	41:BV:39:HIS:O	1.95	1.15
18:B3:1794:G:H5"	35:BP:97:ARG:HG3	1.15	1.15
18:B3:1806:G:O3'	18:B3:2884:G:N2	1.80	1.15
18:B3:1807:U:H5'	18:B3:2884:G:C2	1.81	1.15
18:B3:2388:C:P	36:BQ:88:ARG:NE	2.17	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2676:C:H5'	32:BM:73:ARG:CZ	1.75	1.15
18:B3:2820:A:OP2	22:BC:101:LEU:C	1.85	1.15
19:B4:85:A:C4'	25:BF:228:PHE:HZ	1.57	1.15
26:BG:203:ARG:HD3	26:BG:210:LEU:HD12	1.21	1.15
33:BN:60:ARG:HD2	33:BN:61:ARG:HG3	1.28	1.15
1:AA:12:U:C4'	1:AA:526:C:H4'	1.68	1.14
1:AA:190(D):U:O4	16:AQ:112:PRO:CD	1.95	1.14
18:B3:493:U:H4'	33:BN:99:ALA:CB	1.77	1.14
18:B3:918:G:O2'	41:BV:44:MET:SD	2.05	1.14
18:B3:1381:A:N7	43:BW:25:LYS:HD3	1.62	1.14
18:B3:2048:C:H5'	33:BN:68:ARG:HD2	1.20	1.14
18:B3:2165:G:O2'	20:BA:33:GLU:HB2	1.37	1.14
18:B3:2346:C:H1'	29:BJ:66:VAL:N	1.18	1.14
27:BH:41:ILE:CG2	32:BM:128:LEU:CD1	2.23	1.14
1:AA:190(E):U:O2	16:AQ:131:SER:CB	1.93	1.14
1:AA:1087:G:OP1	1:AA:1389:C:H1'	1.44	1.14
1:AA:1318:A:N1	17:AS:56:PHE:CE1	2.14	1.14
18:B3:68:U:H4'	44:BX:51:ILE:HD13	1.18	1.14
18:B3:72:C:C5'	44:BX:49:LYS:NZ	2.02	1.14
18:B3:672:G:O4'	23:BD:214:ILE:HG21	1.00	1.14
18:B3:1306:U:H5'	23:BD:195:ASN:CG	1.65	1.14
18:B3:1343:C:OP1	23:BD:192:LYS:HD3	0.98	1.14
18:B3:1876:C:C2'	21:BB:131:ASN:HD21	1.58	1.14
18:B3:2165:G:O2'	20:BA:207:LYS:HE3	1.47	1.14
18:B3:2552:C:H4'	18:B3:2553:A:N3	0.83	1.14
18:B3:2826:G:C4	22:BC:124:SER:HB3	1.81	1.14
18:B3:2848:G:OP2	22:BC:173:LYS:CD	1.96	1.14
19:B4:85:A:C5'	25:BF:131:PRO:HB3	1.74	1.14
19:B4:118:C:O3'	24:BE:68:THR:HG21	1.41	1.14
21:BB:179:LEU:CD2	47:B9:21:LEU:CD1	1.95	1.14
35:BP:31:ILE:HG22	35:BP:43:LEU:HD12	1.24	1.14
1:AA:64:G:C4	1:AA:97:G:C6	2.34	1.14
1:AA:400:C:H5"	5:AD:77:ILE:CD1	1.78	1.14
1:AA:1503:A:OP1	1:AA:1531:A:N9	1.79	1.14
18:B3:92:G:C8	44:BX:41:LEU:HB2	1.59	1.14
18:B3:659:A:OP2	34:BO:107:THR:HB	1.48	1.14
18:B3:1163:G:C5'	30:BK:54:LYS:HB2	1.76	1.14
18:B3:1745:G:OP1	37:BR:22:ILE:CB	1.96	1.14
18:B3:1814:G:C2'	18:B3:2733:U:C5	2.30	1.14
18:B3:1815:A:OP1	18:B3:2751:C:H1'	1.46	1.14
18:B3:2081:A:O2'	32:BM:69:PRO:HG3	1.22	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2136:G:N2	18:B3:2238:A:C5	2.15	1.14
18:B3:2560:C:C1'	18:B3:2776:A:C2	2.31	1.14
18:B3:2898:G:C5'	22:BC:312:HIS:O	1.96	1.14
19:B4:119:C:C1'	24:BE:71:GLY:C	2.16	1.14
22:BC:85:VAL:HB	22:BC:159:VAL:HG21	1.28	1.14
27:BH:41:ILE:CG2	32:BM:128:LEU:HD13	1.78	1.14
31:BL:173:ILE:HD13	31:BL:188:LYS:HD3	1.23	1.14
35:BP:105:LEU:HD21	35:BP:137:LEU:HD11	1.27	1.14
1:AA:633:G:H4'	16:AQ:94:PRO:O	1.45	1.14
1:AA:956:U:C1'	17:AS:126:VAL:CB	2.23	1.14
1:AA:958:A:C5	17:AS:101:ALA:HB1	1.81	1.14
1:AA:1300:G:O3'	13:AM:30:TYR:HD1	1.09	1.14
1:AA:1318:A:H3'	17:AS:54:ALA:HB3	1.18	1.14
1:AA:1318:A:O2'	17:AS:84:ILE:N	1.81	1.14
1:AA:1406:U:N1	1:AA:1518:A:C4'	2.09	1.14
5:AD:86:LEU:HG	5:AD:97:LEU:HA	1.20	1.14
18:B3:92:G:N3	44:BX:42:PRO:HG2	1.48	1.14
18:B3:1120:U:N3	18:B3:1226:G:OP2	1.81	1.14
18:B3:1163:G:C8	30:BK:51:LYS:HB2	1.83	1.14
18:B3:2668:G:H4'	22:BC:128:ALA:CB	1.76	1.14
18:B3:2671:U:OP1	22:BC:178:ALA:HB2	0.98	1.14
19:B4:47:A:OP2	24:BE:151:GLN:HG2	1.47	1.14
20:BA:56:PRO:N	20:BA:155:ILE:CG2	2.03	1.14
20:BA:131:ALA:HB1	20:BA:133:LYS:HD3	1.27	1.14
1:AA:17:U:O4	1:AA:916:G:C6	2.00	1.14
1:AA:67:C:N4	1:AA:70:G:C6	2.15	1.14
1:AA:619:U:C6	5:AD:142:ASN:HB2	1.82	1.14
1:AA:779:C:H5'	11:AK:132:ARG:CB	1.78	1.14
1:AA:1484:C:P	18:B3:2001:G:N2	2.21	1.14
18:B3:68:U:H4'	44:BX:51:ILE:CD1	1.76	1.14
18:B3:81:G:C3'	40:BU:74:TYR:O	1.94	1.14
18:B3:124:C:C5	39:BT:88:LYS:HE3	1.83	1.14
18:B3:375:G:N2	18:B3:411:A:OP1	1.80	1.14
18:B3:488:U:OP1	40:BU:90:VAL:CG2	1.96	1.14
18:B3:907:A:C8	18:B3:1328:A:C1'	2.05	1.14
18:B3:1120:U:O4	18:B3:1226:G:OP1	1.63	1.14
18:B3:1134:G:H5'	18:B3:1229:C:C4'	1.78	1.14
18:B3:1305:C:O4'	23:BD:194:ARG:CB	1.96	1.14
18:B3:1306:U:C6	23:BD:194:ARG:NH2	2.15	1.14
18:B3:1446:U:OP1	39:BT:70:THR:CA	1.96	1.14
18:B3:1674:C:H5"	39:BT:84:GLN:NE2	1.62	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2050:G:O2'	33:BN:84:ALA:HB3	0.96	1.14
18:B3:2283:G:O6	28:BI:105:CYS:CB	1.96	1.14
18:B3:2717:C:H5'	22:BC:327:ILE:O	1.47	1.14
18:B3:2819:C:N3	22:BC:100:SER:HB3	1.60	1.14
18:B3:2853:U:C5'	22:BC:170:LEU:HD21	1.77	1.14
20:BA:43:PRO:CG	20:BA:132:GLY:C	2.03	1.14
37:BR:95:PHE:CB	38:BS:22:VAL:HG12	1.52	1.14
41:BV:134:GLU:HB3	41:BV:138:ARG:HD3	1.29	1.14
1:AA:129:U:O3'	16:AQ:127:CYS:C	1.84	1.13
1:AA:318:G:O2'	1:AA:1468:A:H5'	1.48	1.13
1:AA:499:A:C2	1:AA:546:G:H2'	1.82	1.13
1:AA:989:C:H5'	1:AA:1013:G:N3	1.61	1.13
18:B3:401:C:H4'	31:BL:94:GLN:O	1.37	1.13
18:B3:449:A:OP2	18:B3:1306:U:H1'	1.45	1.13
18:B3:616:U:H2'	42:B0:47:ARG:HG3	1.18	1.13
18:B3:764:C:OP1	23:BD:98:MET:HG2	1.48	1.13
18:B3:902:G:C8	41:BV:21:ILE:CD1	2.27	1.13
18:B3:944:G:O4'	25:BF:100:LYS:CE	1.95	1.13
18:B3:1118:A:H4'	18:B3:1228:C:H41	1.12	1.13
18:B3:1805:G:C5'	18:B3:2875:A:O2'	1.96	1.13
18:B3:2308:U:O2'	28:BI:115:MET:HB3	1.48	1.13
18:B3:2764:C:H5"	37:BR:85:TRP:O	0.96	1.13
18:B3:2838:A:OP1	22:BC:221:LYS:CB	1.96	1.13
18:B3:2853:U:H5"	22:BC:170:LEU:HD21	1.30	1.13
19:B4:49:G:H8	24:BE:158:ARG:CD	1.42	1.13
27:BH:40:HIS:O	32:BM:126:LEU:CA	1.97	1.13
1:AA:402:G:H4'	1:AA:620:C:C2'	1.77	1.13
1:AA:499:A:H2	1:AA:546:G:H2'	1.05	1.13
1:AA:523:A:H2	12:AL:115:GLY:CA	1.60	1.13
1:AA:1329:A:C6	13:AM:95:GLY:N	2.14	1.13
1:AA:1348:U:C5'	9:AI:134:ARG:HG3	1.77	1.13
18:B3:521:A:OP1	42:B0:26:HIS:NE2	1.78	1.13
18:B3:672:G:H8	23:BD:214:ILE:CG2	1.51	1.13
18:B3:894:A:N3	23:BD:98:MET:CB	2.06	1.13
18:B3:921:G:O3'	41:BV:41:ARG:HG2	1.35	1.13
18:B3:1371:U:H5'	33:BN:66:ILE:HD11	1.27	1.13
18:B3:2312:G:C5'	28:BI:22:TYR:HE1	1.36	1.13
18:B3:2557:U:O2'	18:B3:2684:A:OP1	1.64	1.13
18:B3:2819:C:C5'	22:BC:99:ARG:O	1.95	1.13
19:B4:37:C:O2	24:BE:154:THR:CG2	1.97	1.13
19:B4:69:U:H4'	24:BE:14:SER:HB2	1.22	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:76:G:H3'	19:B4:77:A:H5"	1.29	1.13
28:BI:18:PRO:HD3	28:BI:95:HIS:HA	1.25	1.13
31:BL:42:THR:HG23	31:BL:43:ARG:HD3	1.19	1.13
40:BU:58:VAL:HG21	40:BU:63:LYS:HG2	1.13	1.13
42:B0:85:LEU:HB2	42:B0:92:TYR:HB2	1.14	1.13
44:BX:31:LEU:HD21	44:BX:40:SER:HB2	1.29	1.13
1:AA:21:G:H5"	1:AA:884:U:H1'	1.20	1.13
1:AA:31:G:OP2	1:AA:306:G:N3	1.81	1.13
1:AA:190(E):U:N3	16:AQ:131:SER:HB3	1.60	1.13
1:AA:598:U:O2'	8:AH:88:TRP:CE3	2.01	1.13
1:AA:1118:C:C5'	9:AI:118:ALA:HB3	1.78	1.13
2:AT:501:LEU:HD12	12:AL:99:ASN:ND2	1.59	1.13
10:AJ:78:THR:OG1	14:AN:39:ARG:NE	1.81	1.13
18:B3:107:U:H1'	44:BX:56:THR:CA	1.77	1.13
18:B3:170:U:C6	46:BZ:49:PHE:CZ	2.36	1.13
18:B3:1167:G:OP1	30:BK:45:ASP:CA	1.96	1.13
18:B3:1371:U:H5"	33:BN:66:ILE:HD12	1.24	1.13
18:B3:1805:G:C5'	18:B3:2875:A:H4'	1.72	1.13
18:B3:1882:C:OP2	21:BB:199:ARG:CB	1.97	1.13
18:B3:2387:U:O2'	36:BQ:88:ARG:HB2	1.46	1.13
18:B3:2614:C:C1'	22:BC:240:LYS:CD	2.04	1.13
18:B3:2826:G:O2'	22:BC:124:SER:N	1.78	1.13
21:BB:177:PRO:CD	47:B9:25:VAL:CG2	2.19	1.13
31:BL:5:TYR:HA	31:BL:8:GLU:HB3	1.13	1.13
41:BV:20:ARG:HB3	41:BV:23:LYS:HB3	1.22	1.13
1:AA:1115:C:H5"	10:AJ:85:ARG:NH2	1.42	1.13
1:AA:1297:C:H3'	13:AM:56:LYS:CA	1.63	1.13
18:B3:553:G:OP2	42:B0:71:HIS:CD2	2.02	1.13
18:B3:618:G:C2'	42:B0:41:VAL:HG23	1.77	1.13
18:B3:763:C:O2	23:BD:86:GLN:CG	1.96	1.13
18:B3:777:U:O2'	45:BY:10:ARG:HG2	0.95	1.13
18:B3:882:A:O4'	45:BY:2:LYS:HG2	1.47	1.13
18:B3:1116:U:H2'	18:B3:1226:G:C8	1.83	1.13
18:B3:1167:G:O2'	30:BK:110:ILE:C	1.87	1.13
18:B3:1310:U:O4	23:BD:201:ARG:HB3	1.48	1.13
18:B3:1348:A:O2'	23:BD:39:THR:N	1.82	1.13
18:B3:1745:G:H5"	37:BR:22:ILE:CD1	1.68	1.13
18:B3:1794:G:H4'	35:BP:96:ARG:HG3	1.15	1.13
18:B3:2037:C:C3'	37:BR:47:ASN:HD21	1.56	1.13
18:B3:2338:G:H5"	29:BJ:125:ASP:HA	1.23	1.13
18:B3:2704:C:N3	27:BH:121:LYS:CD	2.12	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:50:G:C3'	24:BE:93:THR:H	1.60	1.13
24:BE:16:PHE:CD1	36:BQ:19:PHE:CZ	2.37	1.13
24:BE:190:ILE:HG12	24:BE:192:PRO:HD2	1.30	1.13
33:BN:117:GLN:HG3	33:BN:145:ILE:HB	1.30	1.13
1:AA:7:G:C4	6:AE:198:GLN:OE1	2.01	1.12
1:AA:57:G:H1'	1:AA:368:U:C2	1.82	1.12
1:AA:131:C:C5'	16:AQ:128:ARG:HH11	1.57	1.12
1:AA:292:G:C2'	1:AA:609:A:C6	2.31	1.13
1:AA:678:U:C2'	11:AK:125:THR:CG2	2.27	1.12
1:AA:988:G:C4	1:AA:1015:A:C4	2.37	1.12
2:AT:29:ASP:CG	18:B3:2693:U:OP1	1.87	1.12
2:AT:140:GLU:HB2	2:AT:481:MET:HE3	1.29	1.12
3:AB:104:GLY:HA2	3:AB:107:THR:HG22	1.18	1.12
15:AO:82:GLU:HG2	15:AO:85:GLU:HG2	1.29	1.13
18:B3:81:G:O4'	40:BU:73:VAL:HG11	1.37	1.12
18:B3:246:G:O3'	26:BG:133:TYR:OH	1.64	1.13
18:B3:343:C:H5"	40:BU:34:PRO:HG3	1.14	1.13
18:B3:401:C:H4'	31:BL:94:GLN:C	1.67	1.12
18:B3:1181:A:O2'	30:BK:104:ILE:HG23	1.46	1.12
18:B3:1226:G:P	18:B3:1246:A:H61	1.70	1.12
18:B3:1235:G:C6	32:BM:69:PRO:HD2	1.84	1.13
18:B3:1415:G:H5"	45:BY:13:LYS:HE2	1.24	1.13
18:B3:1800:G:OP2	35:BP:69:LYS:NZ	1.82	1.13
18:B3:2797:C:P	27:BH:127:PRO:CG	2.36	1.13
37:BR:95:PHE:CB	38:BS:21:PHE:CD1	1.89	1.13
4:AC:105:LYS:HE2	4:AC:105:LYS:HA	1.29	1.12
18:B3:487:G:H3'	40:BU:90:VAL:CB	1.78	1.12
18:B3:679:G:P	23:BD:258:ASP:CG	2.28	1.12
18:B3:1316:G:H5"	42:B0:101:SER:CB	1.79	1.12
18:B3:2820:A:OP2	22:BC:101:LEU:N	1.80	1.12
19:B4:30:C:N3	24:BE:57:ASN:OD1	1.81	1.12
1:AA:17:U:O4	1:AA:916:G:O6	1.67	1.12
1:AA:919:A:H4'	1:AA:1079:G:N2	1.48	1.12
1:AA:979:C:O2	17:AS:56:PHE:CE2	2.01	1.12
1:AA:1086:U:C4'	1:AA:1389:C:H4'	1.78	1.12
1:AA:1150:U:H4'	10:AJ:59:PRO:HG2	1.27	1.12
1:AA:1318:A:OP1	17:AS:52:LYS:O	1.67	1.12
10:AJ:55:PRO:HA	10:AJ:91:ILE:HG12	1.19	1.12
18:B3:93:C:C5'	44:BX:42:PRO:HB2	1.77	1.12
18:B3:1133:A:C2	18:B3:2501:G:C4	2.38	1.12
18:B3:1267:C:H4'	42:B0:61:LYS:NZ	1.63	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1808:C:OP1	18:B3:2886:C:OP2	1.66	1.12
18:B3:1861:C:H4'	21:BB:7:GLN:HA	1.28	1.12
18:B3:1882:C:OP2	21:BB:199:ARG:HB2	1.49	1.12
18:B3:2579:G:C5'	18:B3:2680:A:O4'	1.97	1.12
19:B4:10:C:H41	36:BQ:26:HIS:CE1	1.66	1.12
20:BA:43:PRO:CG	20:BA:132:GLY:O	1.97	1.12
21:BB:177:PRO:HG3	47:B9:22:ARG:NH1	1.62	1.12
31:BL:13:LYS:HA	31:BL:18:LEU:HD23	1.20	1.12
1:AA:59:A:C5'	1:AA:388:G:N7	2.12	1.12
1:AA:280:C:O2	16:AQ:102:ARG:HG2	1.49	1.12
1:AA:1318:A:C3'	17:AS:54:ALA:HB3	1.72	1.12
1:AA:1329:A:O2'	13:AM:90:ASN:ND2	1.82	1.12
1:AA:1343:G:C4'	9:AI:137:PHE:O	1.97	1.12
10:AJ:38:SER:HB2	10:AJ:91:ILE:HD11	1.19	1.12
18:B3:107:U:H5'	44:BX:57:VAL:O	1.48	1.12
18:B3:433:C:C4'	31:BL:149:TRP:CE3	2.31	1.12
18:B3:905:C:H5'	41:BV:11:ARG:CZ	1.79	1.12
18:B3:968:G:O2'	28:BI:39:LYS:CG	1.96	1.12
18:B3:1139:U:C4'	27:BH:62:ARG:HE	1.62	1.12
18:B3:1139:U:H5"	27:BH:62:ARG:HG3	1.29	1.12
18:B3:1181:A:H4'	30:BK:109:ILE:CG1	1.77	1.12
18:B3:1785:G:C4'	18:B3:2733:U:OP1	1.96	1.12
18:B3:2328:U:OP1	24:BE:153:THR:HG21	1.49	1.12
19:B4:51:A:C2	24:BE:58:LYS:CB	2.21	1.12
20:BA:63:MET:HG3	20:BA:108:ASN:HB3	1.20	1.12
24:BE:65:ILE:HG13	24:BE:75:LEU:HD22	1.26	1.12
32:BM:58:ARG:HD2	32:BM:60:ALA:HB2	1.26	1.12
33:BN:104:LYS:HD2	33:BN:106:LEU:HD12	1.32	1.12
41:BV:123:ILE:HA	41:BV:142:GLY:HA2	1.27	1.12
45:BY:17:LEU:HA	45:BY:24:ARG:HA	1.28	1.12
1:AA:553:A:OP1	12:AL:122:PHE:HE2	1.32	1.12
1:AA:559:A:N7	12:AL:36:THR:HG22	1.45	1.12
1:AA:1321:C:C2'	17:AS:81:ARG:NH2	2.12	1.12
10:AJ:69:LYS:HE3	14:AN:39:ARG:NH2	1.63	1.12
18:B3:493:U:C5'	33:BN:99:ALA:HB1	1.78	1.12
18:B3:620:A:C4'	42:B0:40:SER:HB2	1.76	1.12
18:B3:906:C:N1	18:B3:1329:A:C8	1.99	1.12
18:B3:1055:G:OP2	28:BI:110:ARG:HB2	1.31	1.12
18:B3:1163:G:C8	30:BK:51:LYS:CB	2.33	1.12
18:B3:1316:G:OP1	42:B0:102:ALA:HB3	1.48	1.12
18:B3:1875:A:O2'	21:BB:151:SER:N	1.82	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2214:A:H2'	20:BA:106:LYS:HD2	1.12	1.12
18:B3:2413:A:H1'	24:BE:174:PRO:C	1.66	1.12
18:B3:2818:A:H4'	22:BC:99:ARG:HH11	1.13	1.12
22:BC:70:GLU:OE2	37:BR:11:PHE:CE1	2.03	1.12
22:BC:359:ASP:HB2	38:BS:17:ARG:N	1.23	1.12
31:BL:34:VAL:HA	31:BL:64:ARG:HD3	1.31	1.12
34:BO:41:ASP:HB2	34:BO:133:LYS:HG2	1.20	1.12
41:BV:81:ILE:HG12	41:BV:86:ARG:HD2	1.30	1.12
1:AA:66:G:H5'	1:AA:173:U:C2	1.62	1.12
1:AA:319:G:N3	1:AA:1434:A:N1	1.96	1.12
2:AT:112:SER:HB2	2:AT:537:HIS:ND1	1.65	1.12
18:B3:1875:A:H2'	21:BB:150:PRO:HG2	1.13	1.12
18:B3:2408:A:O2'	46:BZ:19:HIS:CD2	2.03	1.12
18:B3:2820:A:H1'	22:BC:89:VAL:HG12	1.22	1.12
19:B4:85:A:C2'	25:BF:219:PHE:O	1.97	1.12
19:B4:85:A:H1'	25:BF:228:PHE:CE2	1.85	1.12
22:BC:28:VAL:HG11	22:BC:339:LYS:HD3	1.24	1.12
27:BH:41:ILE:N	32:BM:125:VAL:CG1	2.00	1.12
47:B9:36:TYR:HB2	47:B9:46:VAL:HG11	1.28	1.12
1:AA:755:G:P	15:AO:123:ARG:HD2	1.89	1.11
1:AA:970:C:H5	9:AI:142:ARG:NH2	1.48	1.11
1:AA:1319:A:OP1	17:AS:84:ILE:CD1	1.96	1.11
1:AA:1493:A:H2'	1:AA:1494:G:H5'	1.32	1.11
13:AM:129:TRP:CZ3	17:AS:121:ILE:CD1	2.32	1.11
18:B3:81:G:H4'	40:BU:74:TYR:O	1.45	1.11
18:B3:160:A:OP1	31:BL:85:ASN:CB	1.98	1.11
18:B3:676:C:H1'	23:BD:231:SER:O	1.34	1.11
18:B3:679:G:P	23:BD:258:ASP:OD1	2.07	1.11
18:B3:921:G:OP2	41:BV:40:HIS:CE1	2.03	1.11
18:B3:1074:G:H5"	42:B0:45:ARG:HD2	1.23	1.11
18:B3:1713:G:O2'	18:B3:2745:C:C1'	1.97	1.11
18:B3:1744:G:O2'	37:BR:21:ALA:HA	1.49	1.11
18:B3:1814:G:H2'	18:B3:2733:U:C6	1.84	1.11
18:B3:2460:A:H1'	46:BZ:59:LYS:CB	1.79	1.11
19:B4:118:C:O5'	24:BE:70:THR:OG1	1.66	1.11
27:BH:57:VAL:HG11	32:BM:126:LEU:HG	1.27	1.11
27:BH:67:ALA:HB3	32:BM:127:ARG:HA	1.22	1.11
28:BI:10:ARG:HD2	28:BI:160:PRO:HG2	1.25	1.11
1:AA:125:U:C5'	1:AA:291:C:C4'	2.27	1.11
1:AA:129:U:O2'	16:AQ:128:ARG:CA	1.83	1.11
1:AA:1321:C:H5'	17:AS:118:GLU:HA	1.26	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1404:C:C2'	1:AA:1519:A:H4'	1.74	1.11
7:AG:112:ILE:HG23	7:AG:113:ILE:HD12	1.30	1.11
13:AM:89:GLN:CG	13:AM:109:LEU:N	1.95	1.11
18:B3:69:A:C5'	44:BX:52:ALA:HB1	1.79	1.11
18:B3:111:C:H4'	18:B3:119:A:N6	1.63	1.11
18:B3:677:C:H4'	23:BD:256:LYS:CD	1.80	1.11
18:B3:1041:U:H5"	41:BV:18:LYS:HG2	1.19	1.11
18:B3:1227:C:C4'	32:BM:132:ARG:NH2	2.12	1.11
18:B3:1445:G:O3'	39:BT:69:GLU:OE1	1.67	1.11
18:B3:1794:G:OP1	35:BP:97:ARG:CG	1.96	1.11
18:B3:2363:G:N2	36:BQ:8:ARG:HD3	1.63	1.11
22:BC:360:THR:N	38:BS:14:TYR:CB	1.99	1.11
34:BO:77:ALA:HB3	34:BO:79:LYS:HD2	1.30	1.11
37:BR:61:THR:HG23	37:BR:72:LYS:HB3	1.29	1.11
41:BV:71:VAL:HG12	41:BV:110:LYS:HD3	1.12	1.11
1:AA:12:U:C5'	1:AA:526:C:C4'	2.27	1.11
1:AA:65:U:H1'	1:AA:382:A:N1	1.56	1.11
1:AA:678:U:O2'	11:AK:125:THR:HG22	1.50	1.11
3:AB:84:ALA:HB1	3:AB:88:PHE:HE2	1.13	1.11
6:AE:155:THR:HA	8:AH:96:ARG:HB3	1.11	1.11
18:B3:402:U:H4'	31:BL:69:ASN:OD1	1.48	1.11
18:B3:919:U:O2	41:BV:41:ARG:HA	0.94	1.11
18:B3:921:G:C5'	41:BV:42:ILE:N	2.12	1.11
18:B3:1370:G:C6	33:BN:25:PHE:C	2.16	1.11
18:B3:1875:A:H3'	21:BB:150:PRO:HB2	1.27	1.11
18:B3:2407:G:N2	46:BZ:10:TYR:CZ	2.17	1.11
18:B3:2557:U:C2	18:B3:2800:A:N7	2.18	1.11
18:B3:2841:A:N3	33:BN:68:ARG:HD3	1.66	1.11
19:B4:30:C:N3	24:BE:57:ASN:HB2	1.66	1.11
19:B4:46:C:O2'	24:BE:153:THR:O	1.67	1.11
27:BH:11:GLU:HA	27:BH:52:LEU:HB3	1.13	1.11
27:BH:76:ASP:HA	27:BH:79:ILE:HD12	1.30	1.11
43:BW:77:LYS:HE2	43:BW:79:ASN:HB2	1.30	1.11
1:AA:364:A:C5	12:AL:78:LYS:CD	2.30	1.11
1:AA:1151:A:H5'	10:AJ:59:PRO:O	1.39	1.11
1:AA:1250:A:H4'	9:AI:71:GLY:HA2	1.22	1.11
1:AA:1308:U:O3'	13:AM:127:HIS:HE1	1.32	1.11
10:AJ:69:LYS:HE3	14:AN:39:ARG:HH22	0.99	1.11
18:B3:79:G:H5"	40:BU:28:ARG:HB3	1.15	1.11
18:B3:617:C:O2'	42:B0:45:ARG:C	1.66	1.11
18:B3:1167:G:C8	30:BK:111:GLU:OE2	2.03	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1501:A:OP2	35:BP:37:ARG:CG	1.98	1.11
18:B3:1705:C:O3'	35:BP:65:HIS:CD2	2.03	1.11
18:B3:1847:A:C4	21:BB:180:LYS:HB3	1.85	1.11
18:B3:2442:G:H5'	41:BV:60:PHE:HE2	0.97	1.11
18:B3:2460:A:H5"	46:BZ:61:ALA:HA	1.24	1.11
18:B3:2596:A:H5"	37:BR:73:VAL:CG1	1.80	1.11
22:BC:157:VAL:HG13	22:BC:182:LEU:HD21	1.12	1.11
30:BK:32:ILE:HD12	30:BK:37:LEU:HD23	1.13	1.11
37:BR:93:LEU:HB2	38:BS:21:PHE:HA	1.31	1.11
1:AA:12:U:C5'	1:AA:526:C:H4'	1.81	1.11
1:AA:59:A:O3'	1:AA:388:G:C2'	1.95	1.11
1:AA:243:A:H4'	1:AA:244:U:H5'	1.33	1.11
1:AA:1180:A:H5'	9:AI:117:ILE:HD13	1.14	1.11
1:AA:1362:C:O2	13:AM:137:HIS:ND1	1.83	1.11
2:AT:141:THR:HG23	2:AT:483:PHE:CB	1.81	1.11
6:AE:155:THR:HG21	8:AH:112:HIS:CE1	1.86	1.11
18:B3:882:A:O4'	45:BY:2:LYS:CB	1.97	1.11
18:B3:906:C:C4	18:B3:1329:A:N3	2.19	1.11
18:B3:1225:C:C5'	18:B3:1248:A:H2	1.64	1.11
18:B3:2337:G:OP2	29:BJ:103:PHE:CG	2.02	1.11
18:B3:2552:C:H4'	18:B3:2553:A:C4	1.85	1.11
19:B4:36:C:C4'	24:BE:182:GLY:N	2.13	1.11
19:B4:85:A:O4'	25:BF:131:PRO:HB3	1.51	1.11
20:BA:51:GLY:N	20:BA:54:LYS:N	1.99	1.11
27:BH:17:THR:HB	27:BH:28:VAL:HG21	1.12	1.11
1:AA:67:C:C4	1:AA:70:G:C6	2.39	1.10
1:AA:404:U:O4	5:AD:70:LEU:CG	1.98	1.10
1:AA:537:G:C5'	12:AL:143:PRO:CG	2.15	1.10
1:AA:621:A:OP2	5:AD:143:ILE:CG1	1.99	1.10
2:AT:466:THR:HG21	2:AT:516:PRO:HG3	1.20	1.10
3:AB:141:PRO:HA	8:AH:68:LEU:CD1	1.81	1.10
8:AH:39:VAL:HG11	8:AH:102:ILE:HD12	1.26	1.10
18:B3:402:U:H1'	31:BL:92:LYS:HG3	1.21	1.10
18:B3:448:G:N2	23:BD:47:GLN:HE21	1.49	1.10
18:B3:618:G:C4'	42:B0:44:ARG:O	1.98	1.10
18:B3:710:G:OP1	34:BO:42:ALA:CB	1.98	1.10
18:B3:730:G:H5"	41:BV:132:LEU:HD13	1.26	1.10
18:B3:882:A:O4'	45:BY:2:LYS:CG	1.99	1.10
18:B3:919:U:C2	41:BV:41:ARG:CA	2.28	1.10
18:B3:1316:G:OP2	42:B0:102:ALA:HB3	1.49	1.10
18:B3:1676:G:O3'	39:BT:115:PRO:CD	1.99	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1787:C:H2'	18:B3:2882:G:H3'	1.18	1.10
18:B3:1789:G:O2'	18:B3:2877:G:H1'	0.93	1.10
18:B3:2335:C:N1	29:BJ:116:ASP:HB3	1.19	1.10
18:B3:2347:C:C5'	29:BJ:46:GLN:HB3	1.81	1.10
24:BE:106:ALA:HA	24:BE:110:LEU:HD13	1.33	1.10
41:BV:80:LEU:HG	41:BV:86:ARG:HG3	1.26	1.10
42:B0:87:MET:HB2	42:B0:117:ILE:HA	1.16	1.10
1:AA:31:G:OP2	1:AA:306:G:C2	2.04	1.10
1:AA:121:C:O4'	1:AA:235:C:N4	1.80	1.10
1:AA:363:A:H3'	12:AL:77:ILE:CD1	1.80	1.10
1:AA:499:A:O2'	1:AA:500:G:H5'	1.47	1.10
1:AA:553:A:OP1	12:AL:122:PHE:CE2	2.04	1.10
1:AA:826:C:H5'	8:AH:27:ARG:HH12	1.07	1.10
1:AA:865:A:HO2'	1:AA:1079:G:N2	1.47	1.10
1:AA:1349:A:OP1	9:AI:135:SER:N	1.83	1.10
18:B3:82:C:OP1	40:BU:75:ARG:HB2	1.49	1.10
18:B3:657:G:O2'	23:BD:119:TYR:CZ	2.04	1.10
18:B3:676:C:O2'	23:BD:231:SER:O	1.60	1.10
18:B3:677:C:H1'	23:BD:230:ALA:CA	1.78	1.10
18:B3:890:C:H1'	45:BY:48:TRP:O	1.46	1.10
18:B3:1381:A:C5	43:BW:25:LYS:HA	1.86	1.10
18:B3:1652:C:C6	21:BB:174:VAL:HG22	1.85	1.10
18:B3:1675:C:C5	39:BT:113:VAL:N	2.18	1.10
18:B3:1794:G:C4'	35:BP:96:ARG:HG3	1.70	1.10
18:B3:2215:A:C5'	20:BA:107:TYR:CD2	2.34	1.10
18:B3:2245:C:C6	18:B3:2246:U:C5	2.34	1.10
18:B3:2345:A:C5'	29:BJ:48:LYS:HD2	1.62	1.10
18:B3:2704:C:O2	27:BH:121:LYS:CB	1.98	1.10
18:B3:2806:C:H4'	22:BC:343:THR:OG1	1.46	1.10
18:B3:2826:G:C4	22:BC:124:SER:CB	2.34	1.10
20:BA:114:GLU:HG2	20:BA:137:PRO:HB2	1.32	1.10
21:BB:177:PRO:CG	47:B9:25:VAL:HG23	1.80	1.10
22:BC:359:ASP:OD1	38:BS:14:TYR:CG	2.04	1.10
1:AA:404:U:N1	5:AD:19:TYR:CE2	2.19	1.10
1:AA:523:A:C6	12:AL:113:ALA:HB1	1.86	1.10
1:AA:1309:G:H3'	13:AM:92:ILE:CG1	1.51	1.10
1:AA:1320:C:N4	17:AS:116:LEU:HB2	1.01	1.10
1:AA:1340:A:H2'	9:AI:141:TYR:CZ	1.85	1.10
18:B3:67:A:C4'	44:BX:55:LEU:CD2	2.29	1.10
18:B3:93:C:O4'	44:BX:42:PRO:HB2	1.51	1.10
18:B3:145:A:C4'	31:BL:137:GLN:HE21	1.64	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:170:U:OP1	31:BL:82:LYS:CB	1.99	1.10
18:B3:448:G:N2	23:BD:47:GLN:NE2	1.97	1.10
18:B3:499:G:H4'	33:BN:19:SER:OG	1.52	1.10
18:B3:501:G:H5'	33:BN:16:ALA:CA	1.68	1.10
18:B3:540:A:H5"	42:B0:17:PHE:HA	1.26	1.10
18:B3:907:A:H5'	18:B3:1328:A:C4'	1.79	1.10
18:B3:1054:G:OP2	28:BI:14:ASN:OD1	1.69	1.10
18:B3:1090:A:H5'	42:B0:55:ILE:HD12	1.20	1.10
18:B3:1117:A:OP1	18:B3:1138:G:O6	1.69	1.10
18:B3:1673:U:H1'	39:BT:90:ASN:C	1.72	1.10
18:B3:1794:G:H4'	35:BP:96:ARG:HG2	1.28	1.10
18:B3:1993:C:N4	37:BR:35:TYR:OH	1.84	1.10
18:B3:2333:G:C2'	29:BJ:113:ILE:O	1.99	1.10
18:B3:2828:G:O5'	22:BC:129:PHE:CB	1.90	1.10
18:B3:2848:G:OP2	22:BC:173:LYS:CE	1.98	1.10
22:BC:59:LEU:HD12	22:BC:66:PHE:HB3	1.32	1.10
27:BH:41:ILE:N	32:BM:125:VAL:HG12	1.37	1.10
1:AA:239:U:O2'	1:AA:288:A:N9	1.82	1.10
1:AA:622:A:C5'	5:AD:78:ARG:HG2	1.73	1.10
1:AA:779:C:OP1	11:AK:131:ARG:N	1.83	1.10
1:AA:947:G:C5'	13:AM:143:ARG:CZ	2.29	1.10
1:AA:1308:U:C2	13:AM:93:THR:OG1	1.92	1.10
1:AA:1314:C:N4	17:AS:49:MET:HA	0.78	1.10
1:AA:1318:A:C2	17:AS:56:PHE:CE1	2.40	1.10
2:AT:140:GLU:CA	2:AT:481:MET:CG	2.11	1.10
5:AD:28:LEU:HB3	5:AD:43:TYR:HA	1.31	1.10
6:AE:138:ILE:HB	6:AE:217:ILE:HD11	1.34	1.10
10:AJ:71:PRO:CD	14:AN:36:ASN:HB2	1.82	1.10
18:B3:164:G:O3'	41:BV:31:ARG:CB	1.98	1.10
18:B3:894:A:C5'	23:BD:57:HIS:CD2	1.79	1.10
18:B3:1787:C:O2	18:B3:2883:A:C8	2.04	1.10
18:B3:1794:G:C4'	35:BP:96:ARG:HG2	1.72	1.10
18:B3:1814:G:H3'	18:B3:2733:U:C2	1.86	1.10
18:B3:2552:C:H5"	18:B3:2553:A:H2	1.10	1.10
18:B3:2713:G:C5'	37:BR:44:SER:O	1.98	1.10
18:B3:2762:C:O2	37:BR:83:LYS:CE	1.98	1.10
18:B3:2821:C:O2	22:BC:131:LYS:HE2	1.50	1.10
19:B4:50:G:C3'	24:BE:93:THR:N	2.13	1.10
22:BC:217:ILE:HD11	22:BC:337:LEU:HB2	1.18	1.10
23:BD:24:VAL:HG21	23:BD:122:ALA:HB1	1.10	1.10
23:BD:181:LEU:HD21	23:BD:185:LYS:HG2	1.31	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:55:A:C2	2:AT:67:GLY:C	2.24	1.10
1:AA:560:U:N1	1:AA:563:A:H5'	1.67	1.10
1:AA:924:C:C1'	1:AA:1398:A:C4	2.34	1.10
6:AE:98:LYS:HE2	6:AE:114:ILE:HB	1.17	1.10
18:B3:145:A:O2'	31:BL:111:ASN:OD1	1.68	1.10
18:B3:751:U:H4'	23:BD:36:THR:CG2	1.82	1.10
18:B3:905:C:O2	18:B3:1330:A:C8	2.04	1.10
18:B3:1705:C:C5'	35:BP:62:THR:CB	2.29	1.10
18:B3:1809:G:H4'	18:B3:2731:G:H5'	1.29	1.10
18:B3:1993:C:C1'	37:BR:72:LYS:CG	2.10	1.10
18:B3:2468:A:C8	46:BZ:55:PRO:HG3	1.86	1.10
18:B3:2819:C:O4'	22:BC:99:ARG:O	1.65	1.10
20:BA:94:ASN:HB2	20:BA:123:LEU:HB3	1.17	1.10
21:BB:80:GLY:HA2	47:B9:64:ALA:O	1.52	1.10
23:BD:225:GLU:HG3	23:BD:236:GLN:HG3	1.34	1.10
27:BH:43:VAL:CG1	32:BM:126:LEU:C	2.19	1.10
29:BJ:59:ARG:HD2	29:BJ:62:GLU:HA	1.20	1.10
35:BP:98:LEU:H	35:BP:101:LEU:HD23	1.04	1.10
37:BR:92:PHE:CE1	38:BS:20:LEU:HD11	1.87	1.10
1:AA:12:U:H4'	1:AA:526:C:H4'	1.16	1.09
1:AA:131:C:H3'	16:AQ:128:ARG:CZ	1.65	1.09
1:AA:293:G:H5'	1:AA:610:G:N3	1.63	1.09
1:AA:363:A:C3'	12:AL:77:ILE:HD11	1.61	1.09
1:AA:364:A:N7	12:AL:78:LYS:CD	2.15	1.09
1:AA:436:C:C2	1:AA:496:A:C2'	2.33	1.09
1:AA:519:C:OP2	12:AL:67:ALA:CA	1.99	1.09
1:AA:877:C:C1'	8:AH:3:SER:CB	2.30	1.09
1:AA:920:U:H5'	1:AA:1080:A:N3	1.66	1.09
1:AA:1070:U:O3'	6:AE:90:ARG:CB	1.96	1.09
1:AA:1101:A:H61	3:AB:102:THR:HG22	1.15	1.09
1:AA:1296:C:C5'	13:AM:52:VAL:C	2.19	1.09
1:AA:1505:G:H8	1:AA:1506:U:C6	1.68	1.09
18:B3:124:C:OP2	39:BT:88:LYS:HD3	1.51	1.09
18:B3:1316:G:C5'	42:B0:101:SER:HB3	1.81	1.09
18:B3:1805:G:H5"	18:B3:2875:A:H4'	1.30	1.09
18:B3:1943:C:H5"	21:BB:218:ILE:HD11	1.21	1.09
18:B3:2668:G:O3'	22:BC:128:ALA:CB	2.00	1.09
18:B3:2713:G:H5'	37:BR:44:SER:O	1.51	1.09
21:BB:20:ARG:HG3	21:BB:21:LEU:HD22	1.22	1.09
23:BD:125:ILE:HG23	23:BD:237:LEU:HD13	1.34	1.09
26:BG:138:VAL:HG21	26:BG:198:ALA:HB3	1.14	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:37:LEU:HD21	30:BK:42:VAL:HG21	1.11	1.09
1:AA:256:U:OP1	16:AQ:81:ARG:HD3	1.36	1.09
1:AA:320:C:C1'	1:AA:1435:G:C2'	2.26	1.09
1:AA:401:C:C5'	5:AD:78:ARG:CG	2.25	1.09
1:AA:553:A:O2'	12:AL:45:GLY:N	1.86	1.09
1:AA:620:C:OP1	5:AD:143:ILE:CG2	2.01	1.09
1:AA:988:G:H2'	1:AA:1015:A:C8	1.87	1.09
1:AA:1299:A:H5'	13:AM:57:ARG:CZ	1.83	1.09
1:AA:1343:G:H4'	9:AI:137:PHE:O	1.48	1.09
1:AA:1346:A:H5"	9:AI:134:ARG:HH22	1.09	1.09
13:AM:91:ASP:CA	13:AM:109:LEU:O	1.85	1.09
18:B3:67:A:O5'	44:BX:55:LEU:HD23	1.48	1.09
18:B3:635:A:C5'	23:BD:91:ASN:CG	2.13	1.09
18:B3:1309:U:P	23:BD:203:GLY:O	2.08	1.09
18:B3:1370:G:O4'	33:BN:62:PHE:CE1	1.71	1.09
18:B3:1529:G:H4'	21:BB:69:ARG:NH1	1.67	1.09
18:B3:1705:C:H5"	35:BP:62:THR:OG1	1.53	1.09
18:B3:2337:G:OP2	29:BJ:103:PHE:CD2	2.06	1.09
18:B3:2345:A:H1'	29:BJ:23:GLY:N	1.66	1.09
18:B3:2370:A:H61	36:BQ:49:GLN:NE2	1.48	1.09
18:B3:2565:C:N3	27:BH:171:ASP:CB	2.16	1.09
18:B3:2719:A:C8	38:BS:17:ARG:NH2	2.14	1.09
18:B3:2763:G:H4'	37:BR:84:SER:N	1.65	1.09
18:B3:2809:G:OP1	22:BC:273:SER:O	1.70	1.09
19:B4:29:C:N4	24:BE:57:ASN:HB3	1.64	1.09
19:B4:69:U:C3'	24:BE:14:SER:HB2	1.80	1.09
20:BA:120:VAL:HG13	20:BA:121:PRO:HD2	1.29	1.09
21:BB:177:PRO:CG	47:B9:22:ARG:NH1	2.15	1.09
22:BC:165:ILE:HG21	22:BC:171:ALA:HB3	1.34	1.09
33:BN:49:GLN:HE21	33:BN:54:GLN:HG2	1.14	1.09
1:AA:20:U:H5'	1:AA:573:A:H61	1.13	1.09
1:AA:131:C:H5'	16:AQ:128:ARG:HH11	1.02	1.09
1:AA:364:A:OP1	12:AL:50:LYS:HD3	1.50	1.09
1:AA:400:C:C5'	5:AD:77:ILE:CD1	2.26	1.09
1:AA:405:U:N3	5:AD:27:GLU:N	1.82	1.09
1:AA:520:A:OP1	12:AL:70:LYS:HE2	1.49	1.09
1:AA:1081:G:P	6:AE:88:GLN:OE1	2.09	1.09
1:AA:1086:U:H5"	1:AA:1389:C:H5"	1.12	1.09
1:AA:1299:A:O2'	13:AM:30:TYR:CB	1.99	1.09
2:AT:140:GLU:O	2:AT:481:MET:N	1.85	1.09
2:AT:536:LEU:HD22	18:B3:2698:G:C2'	1.82	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:536:LEU:HD13	18:B3:2699:A:H5'	1.16	1.09
6:AE:102:VAL:HG21	6:AE:189:LEU:HB3	1.14	1.09
18:B3:78:G:H4'	40:BU:25:SER:OG	1.51	1.09
18:B3:343:C:H5"	40:BU:34:PRO:CG	1.82	1.09
18:B3:621:C:H3'	42:B0:36:LYS:HD2	1.32	1.09
18:B3:698:A:H3'	41:BV:114:LYS:HB2	1.33	1.09
18:B3:945:U:O2'	25:BF:124:GLU:HB3	1.35	1.09
18:B3:1067:A:OP1	25:BF:96:PRO:HG2	1.50	1.09
18:B3:1132:A:O2'	18:B3:2521:A:C5'	0.79	1.09
18:B3:1243:C:H5"	32:BM:17:ARG:NH2	1.40	1.09
18:B3:1348:A:H4'	23:BD:38:PHE:CZ	1.86	1.09
18:B3:1359:U:O4	23:BD:70:VAL:HG23	1.44	1.09
18:B3:1672:G:H5"	39:BT:91:LYS:HG2	1.21	1.09
18:B3:1875:A:H5"	21:BB:127:ARG:NH2	1.34	1.09
18:B3:1882:C:OP1	21:BB:200:GLY:HA3	1.52	1.09
18:B3:2222:C:C5'	20:BA:215:ARG:HH22	1.66	1.09
18:B3:2320:U:C4	46:BZ:4:PRO:HB3	1.87	1.09
18:B3:2333:G:N9	29:BJ:114:LYS:HG2	1.51	1.09
18:B3:2519:C:C1'	28:BI:158:LYS:HA	1.82	1.09
20:BA:169:VAL:HG23	20:BA:179:LEU:HD21	1.32	1.09
21:BB:177:PRO:HB3	47:B9:22:ARG:CD	1.81	1.09
23:BD:187:ARG:HB3	23:BD:197:ARG:HG3	1.20	1.09
30:BK:53:PHE:CE1	30:BK:86:LYS:CD	2.27	1.09
37:BR:92:PHE:O	38:BS:19:THR:HG23	1.50	1.09
1:AA:124:G:H5"	1:AA:289:G:N2	1.67	1.09
1:AA:144:G:O6	1:AA:199:G:C5'	1.99	1.09
1:AA:559:A:N7	12:AL:36:THR:HG21	1.67	1.09
1:AA:677:U:C4	11:AK:121:PRO:HB2	1.86	1.09
1:AA:988:G:N3	1:AA:1015:A:C8	1.97	1.09
1:AA:988:G:C5'	1:AA:1013:G:O3'	2.01	1.09
1:AA:1176:A:H3'	9:AI:107:ALA:CB	1.83	1.09
1:AA:1370:G:P	9:AI:123:PRO:CG	2.38	1.09
6:AE:155:THR:CA	8:AH:96:ARG:HB3	1.67	1.09
18:B3:79:G:H5"	40:BU:28:ARG:CB	1.82	1.09
18:B3:265:U:H5"	31:BL:55:LYS:CE	1.82	1.09
18:B3:679:G:OP1	23:BD:258:ASP:OD1	1.71	1.09
18:B3:1116:U:H2'	18:B3:1226:G:H8	1.12	1.09
18:B3:1137:G:O2'	18:B3:2784:A:C2	1.82	1.09
18:B3:1311:G:C5	23:BD:185:LYS:HB3	1.85	1.09
18:B3:1343:C:O2	23:BD:188:ALA:HB2	1.53	1.09
18:B3:1676:G:C5'	39:BT:115:PRO:HG3	1.79	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1846:U:OP2	21:BB:197:LYS:NZ	1.85	1.09
18:B3:2407:G:N2	46:BZ:10:TYR:CE2	2.21	1.09
18:B3:2656:G:O2'	22:BC:268:GLN:NE2	1.83	1.09
20:BA:57:ASN:ND2	20:BA:155:ILE:HD12	1.65	1.09
22:BC:189:GLU:HB3	22:BC:190:LYS:HE2	1.24	1.09
22:BC:211:ASN:HB2	22:BC:349:ALA:HB3	1.15	1.09
31:BL:168:LYS:HE2	31:BL:169:LYS:HG2	1.32	1.09
1:AA:21:G:H5"	1:AA:884:U:C1'	1.83	1.09
1:AA:65:U:C2'	1:AA:382:A:N1	2.14	1.09
1:AA:111:G:C2'	1:AA:389:A:H4'	1.83	1.09
1:AA:779:C:C5'	11:AK:132:ARG:C	2.22	1.09
1:AA:1086:U:C5'	1:AA:1389:C:H5"	1.71	1.09
1:AA:1219:U:O3'	17:AS:58:LYS:HG2	1.05	1.09
1:AA:1220:G:OP1	17:AS:80:MET:HE3	1.48	1.09
1:AA:1240:U:H5'	7:AG:188:THR:CB	1.80	1.09
1:AA:1301:U:H5'	13:AM:30:TYR:HA	1.17	1.09
1:AA:1343:G:C5'	9:AI:138:GLN:CA	2.20	1.09
2:AT:108:HIS:HA	2:AT:536:LEU:HD21	1.24	1.09
2:AT:464:LEU:HB3	2:AT:510:ARG:CA	1.83	1.09
5:AD:102:GLU:HA	5:AD:190:GLU:HB2	1.26	1.09
6:AE:219:ASN:O	8:AH:99:GLY:HA2	1.52	1.09
8:AH:81:LYS:HE2	8:AH:86:GLU:HG3	1.29	1.09
13:AM:91:ASP:C	13:AM:109:LEU:HD11	1.57	1.09
18:B3:251:C:H1'	31:BL:139:LYS:HE2	1.32	1.09
18:B3:448:G:C2'	23:BD:195:ASN:ND2	1.92	1.09
18:B3:679:G:OP1	23:BD:258:ASP:CG	1.91	1.09
18:B3:905:C:N3	18:B3:1330:A:C4	2.20	1.09
18:B3:1334:C:H2'	42:B0:98:HIS:H	0.97	1.09
18:B3:1707:G:O2'	35:BP:81:LYS:CG	2.00	1.09
18:B3:1815:A:O2'	18:B3:2746:A:N7	1.61	1.09
18:B3:1942:A:O2'	21:BB:222:SER:CB	2.00	1.09
18:B3:2100:A:O4'	23:BD:68:ARG:HD2	1.32	1.09
18:B3:2334:C:C2	29:BJ:114:LYS:O	2.05	1.09
18:B3:2519:C:H6	28:BI:158:LYS:CE	1.64	1.09
18:B3:2845:G:C5'	22:BC:24:ILE:HG22	1.81	1.09
19:B4:6:C:H3'	24:BE:28:THR:HG21	1.31	1.09
19:B4:97:U:O2	25:BF:220:LYS:HD2	1.46	1.09
19:B4:99:U:H5'	25:BF:222:PHE:HE1	0.98	1.09
20:BA:43:PRO:HG2	20:BA:132:GLY:O	1.52	1.09
21:BB:47:ILE:HG12	47:B9:53:ILE:HG13	1.20	1.09
21:BB:179:LEU:HD23	47:B9:20:SER:HB2	1.11	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:156:ARG:HD2	28:BI:163:GLN:H	1.15	1.09
1:AA:118:U:O2	1:AA:123:C:C1'	2.00	1.08
1:AA:358:U:H5"	2:AT:390:ASP:OD1	1.51	1.08
1:AA:401:C:C5'	5:AD:78:ARG:HG3	1.84	1.08
1:AA:405:U:OP1	5:AD:37:LYS:CE	2.01	1.08
1:AA:523:A:N6	12:AL:113:ALA:CB	2.16	1.08
1:AA:1117:G:C2'	9:AI:120:SER:HB2	1.75	1.08
1:AA:1221:G:N7	17:AS:79:HIS:CA	2.15	1.08
1:AA:1224:G:H3'	17:AS:122:THR:OG1	1.31	1.08
1:AA:1299:A:O3'	13:AM:26:ILE:HD11	1.53	1.08
1:AA:1304:G:O6	13:AM:40:ARG:CB	2.01	1.08
1:AA:1346:A:C5'	9:AI:134:ARG:NH2	2.07	1.08
2:AT:140:GLU:HB2	2:AT:481:MET:CE	1.81	1.08
9:AI:17:ALA:HB1	9:AI:80:ILE:HD13	1.33	1.08
10:AJ:71:PRO:HG2	14:AN:36:ASN:CB	1.83	1.08
18:B3:90:A:O2'	44:BX:39:PRO:HG2	0.92	1.08
18:B3:618:G:H1'	42:B0:49:ASN:HB3	1.34	1.08
18:B3:1117:A:O2'	18:B3:1227:C:O4'	1.70	1.08
18:B3:1132:A:O2'	18:B3:2521:A:H5'	1.46	1.08
18:B3:1163:G:C5	30:BK:51:LYS:CG	2.35	1.08
18:B3:1164:U:P	30:BK:47:ALA:O	2.11	1.08
18:B3:1467:C:OP1	31:BL:33:ASN:HB2	1.52	1.08
18:B3:1689:A:C4	33:BN:128:THR:HG23	1.77	1.08
18:B3:1708:C:OP1	35:BP:81:LYS:O	1.69	1.08
18:B3:1785:G:O2'	18:B3:2733:U:OP1	1.69	1.08
18:B3:2053:G:C5'	33:BN:140:SER:HA	1.71	1.08
20:BA:50:SER:OG	20:BA:154:THR:HG21	1.51	1.08
20:BA:55:LEU:HG	20:BA:167:VAL:HG22	1.19	1.08
21:BB:179:LEU:CB	47:B9:20:SER:CB	1.98	1.08
22:BC:71:VAL:N	37:BR:88:ARG:CA	2.06	1.08
32:BM:53:TYR:H	32:BM:58:ARG:HG3	1.18	1.08
32:BM:123:LEU:HB2	32:BM:125:VAL:HG23	1.36	1.08
1:AA:21:G:H4'	1:AA:885:G:P	1.93	1.08
1:AA:125:U:C5'	1:AA:291:C:O4'	2.00	1.08
1:AA:364:A:OP1	12:AL:50:LYS:CD	1.99	1.08
1:AA:989:C:H5'	1:AA:1013:G:H1'	1.30	1.08
1:AA:1086:U:H5"	1:AA:1389:C:C4'	1.83	1.08
1:AA:1117:G:O2'	9:AI:120:SER:HB2	0.93	1.08
10:AJ:71:PRO:HG3	14:AN:36:ASN:OD1	1.37	1.08
18:B3:265:U:C5'	31:BL:55:LYS:CE	2.31	1.08
18:B3:619:U:H5"	42:B0:41:VAL:HA	1.33	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:672:G:C5'	23:BD:214:ILE:CG1	2.28	1.08
18:B3:796:A:C4'	47:B9:12:LYS:HB3	1.70	1.08
18:B3:815:U:O3'	18:B3:816:G:H5'	1.52	1.08
18:B3:907:A:C5'	18:B3:1328:A:C4'	2.32	1.08
18:B3:907:A:C4'	18:B3:1328:A:C4'	2.22	1.08
18:B3:945:U:H5"	25:BF:128:LEU:HD11	1.20	1.08
18:B3:1304:U:C2'	23:BD:194:ARG:CB	2.31	1.08
18:B3:2053:G:H5'	33:BN:140:SER:HA	1.35	1.08
18:B3:2578:G:C2	18:B3:2800:A:H2'	1.88	1.08
19:B4:119:C:H1'	24:BE:72:ASP:C	1.74	1.08
25:BF:221:HIS:HA	25:BF:228:PHE:HB2	1.34	1.08
30:BK:53:PHE:CE1	30:BK:86:LYS:NZ	2.20	1.08
33:BN:20:TYR:HB2	33:BN:142:PRO:HB2	1.30	1.08
35:BP:51:LYS:HE2	35:BP:52:LYS:HE2	1.35	1.08
1:AA:321:A:H5'	1:AA:1437:C:H5'	1.30	1.08
1:AA:958:A:C2	17:AS:102:PHE:CD1	2.41	1.08
1:AA:1176:A:C3'	9:AI:107:ALA:CA	2.11	1.08
1:AA:1180:A:C5'	9:AI:117:ILE:CD1	2.30	1.08
1:AA:1224:G:OP2	13:AM:139:LYS:HE3	1.52	1.08
1:AA:1309:G:C3'	13:AM:123:ARG:HH22	1.64	1.08
2:AT:465:LYS:HZ3	2:AT:511:LEU:CG	1.60	1.08
2:AT:536:LEU:CG	18:B3:2698:G:O2'	2.00	1.08
11:AK:27:VAL:HG13	11:AK:66:VAL:HG21	1.31	1.08
18:B3:92:G:C8	44:BX:41:LEU:CB	2.31	1.08
18:B3:100:C:O4'	40:BU:24:SER:OG	1.71	1.08
18:B3:539:G:C5	42:B0:50:ILE:HD13	1.88	1.08
18:B3:1718:G:OP2	35:BP:19:ARG:NH2	1.85	1.08
18:B3:1794:G:C3'	35:BP:96:ARG:HG3	1.82	1.08
18:B3:2087:C:O4'	33:BN:78:THR:CG2	1.88	1.08
18:B3:2347:C:C6	29:BJ:66:VAL:CB	2.34	1.08
18:B3:2460:A:C1'	46:BZ:59:LYS:CB	2.31	1.08
19:B4:118:C:H2'	24:BE:71:GLY:HA3	1.17	1.08
25:BF:167:ILE:HB	25:BF:179:SER:HB3	1.12	1.08
32:BM:26:LEU:HG	32:BM:101:LEU:HD12	1.35	1.08
33:BN:148:VAL:HG12	33:BN:149:VAL:HG22	1.30	1.08
34:BO:122:ILE:HD13	34:BO:126:GLN:HB3	1.08	1.08
36:BQ:30:TYR:HA	36:BQ:93:VAL:HG23	1.34	1.08
40:BU:33:ALA:HB2	40:BU:50:ILE:HD11	1.33	1.08
40:BU:50:ILE:HD13	40:BU:104:LEU:HD11	1.35	1.08
46:BZ:2:ASN:HB3	46:BZ:91:GLU:HG2	1.33	1.08
1:AA:132:C:O2	1:AA:262:A:H2	1.10	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:346:G:OP1	37:BR:136:VAL:N	1.81	1.08
1:AA:877:C:H1'	8:AH:3:SER:HB3	1.32	1.08
3:AB:141:PRO:HG3	8:AH:68:LEU:HD22	1.32	1.08
9:AI:97:ASP:HB2	9:AI:103:GLU:H	1.09	1.08
10:AJ:71:PRO:CG	14:AN:36:ASN:CG	2.20	1.08
18:B3:92:G:H5"	44:BX:43:LYS:HE3	1.17	1.08
18:B3:1131:G:N3	18:B3:2522:G:H4'	1.44	1.08
18:B3:2333:G:HO2'	29:BJ:113:ILE:HG13	1.14	1.08
18:B3:2737:C:H3'	35:BP:60:SER:N	1.59	1.08
18:B3:2828:G:O5'	22:BC:129:PHE:HB3	1.34	1.08
19:B4:51:A:H62	24:BE:59:ASP:N	1.18	1.08
19:B4:85:A:H1'	25:BF:228:PHE:CZ	1.78	1.08
22:BC:69:ARG:HD3	37:BR:89:ASP:CA	1.81	1.08
27:BH:41:ILE:HG21	32:BM:128:LEU:HD13	1.09	1.08
1:AA:1250:A:H5"	9:AI:71:GLY:N	1.62	1.08
1:AA:1318:A:C2	17:AS:56:PHE:CD1	2.42	1.08
3:AB:143:ILE:HG22	3:AB:157:VAL:HB	1.32	1.08
7:AG:122:VAL:HG23	7:AG:123:LEU:HD12	1.20	1.08
18:B3:541:C:OP2	42:B0:15:LYS:CD	2.00	1.08
18:B3:798:G:C5'	47:B9:9:ILE:HD11	1.81	1.08
18:B3:1131:G:N3	18:B3:2522:G:C4'	1.97	1.08
18:B3:1745:G:OP1	37:BR:22:ILE:CG1	2.01	1.08
18:B3:2169:C:C2'	20:BA:26:ARG:NH1	2.16	1.08
18:B3:2242:U:C4	18:B3:2257:G:N1	2.22	1.08
18:B3:2244:A:C4'	31:BL:27:TRP:HZ3	1.59	1.08
18:B3:2346:C:C5'	29:BJ:47:SER:C	2.23	1.08
18:B3:2808:U:H5"	22:BC:274:ARG:HB2	1.31	1.08
19:B4:69:U:O2'	24:BE:14:SER:OG	1.71	1.08
19:B4:87:U:H6	25:BF:217:ARG:CZ	1.67	1.08
20:BA:108:ASN:HD21	20:BA:162:VAL:HB	1.18	1.08
24:BE:187:THR:H	24:BE:200:PHE:HB2	1.16	1.08
27:BH:43:VAL:CG1	32:BM:127:ARG:HD2	1.84	1.08
29:BJ:15:LYS:HA	29:BJ:70:VAL:HG21	1.31	1.08
39:BT:109:VAL:HB	39:BT:123:VAL:HG22	1.36	1.08
1:AA:239:U:O2'	1:AA:288:A:C1'	2.01	1.07
1:AA:321:A:H5'	1:AA:1437:C:C5'	1.76	1.07
1:AA:405:U:P	5:AD:37:LYS:CE	2.40	1.07
1:AA:989:C:H4'	1:AA:1013:G:N2	1.68	1.07
1:AA:1220:G:C3'	17:AS:78:THR:O	2.01	1.07
1:AA:1222:G:OP2	17:AS:81:ARG:CZ	1.99	1.07
1:AA:1343:G:H5"	9:AI:137:PHE:O	1.52	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:132:VAL:HG12	7:AG:197:LEU:HD13	1.25	1.07
9:AI:58:LYS:HD2	9:AI:88:LEU:HD13	1.34	1.07
18:B3:402:U:OP1	31:BL:97:LEU:HD22	1.54	1.07
18:B3:449:A:OP1	23:BD:45:LYS:C	1.91	1.07
18:B3:540:A:N6	42:B0:50:ILE:HD12	1.42	1.07
18:B3:948:G:C2	36:BQ:100:LYS:CD	2.36	1.07
18:B3:2347:C:O2'	29:BJ:68:VAL:O	1.71	1.07
18:B3:2415:A:O4'	24:BE:39:GLN:HG3	1.52	1.07
18:B3:2441:U:O2'	41:BV:60:PHE:HZ	1.38	1.07
18:B3:2763:G:C5'	37:BR:14:SER:HB2	1.84	1.07
19:B4:117:G:O2'	24:BE:69:ILE:CG2	2.02	1.07
22:BC:213:MET:HB2	22:BC:341:LEU:HD13	1.12	1.07
26:BG:126:PRO:HG3	26:BG:131:VAL:HG11	1.36	1.07
31:BL:5:TYR:HB2	31:BL:8:GLU:HG2	1.35	1.07
40:BU:14:LYS:HD2	40:BU:17:LYS:HE3	1.33	1.07
1:AA:20:U:C4'	1:AA:573:A:N6	2.17	1.07
1:AA:65:U:OP1	1:AA:97:G:OP2	1.70	1.07
1:AA:266:G:O3'	16:AQ:132:LYS:HB2	1.51	1.07
1:AA:677:U:C5	11:AK:121:PRO:CG	2.37	1.07
1:AA:689:C:O3'	11:AK:23:ASN:OD1	1.71	1.07
9:AI:51:LEU:HD21	9:AI:84:ILE:HG12	1.34	1.07
10:AJ:74:GLU:HG3	14:AN:37:ILE:HD13	1.09	1.07
18:B3:27:U:C3'	18:B3:1319:G:O4'	1.84	1.07
18:B3:124:C:C6	39:BT:88:LYS:CE	2.37	1.07
18:B3:449:A:H62	18:B3:1349:G:C3'	1.49	1.07
18:B3:796:A:C4'	47:B9:12:LYS:CB	2.28	1.07
18:B3:1163:G:C8	30:BK:51:LYS:CG	2.36	1.07
18:B3:1304:U:C3'	23:BD:194:ARG:CB	2.26	1.07
18:B3:1305:C:O4'	23:BD:194:ARG:HB2	1.11	1.07
18:B3:1812:G:C2	18:B3:2732:U:C5'	2.36	1.07
18:B3:2520:G:H5'	28:BI:160:PRO:HA	1.34	1.07
19:B4:50:G:H3'	24:BE:93:THR:N	1.68	1.07
23:BD:207:VAL:HG11	23:BD:247:VAL:HG12	1.36	1.07
33:BN:90:VAL:HA	33:BN:93:LEU:HD23	1.36	1.07
37:BR:95:PHE:CD1	38:BS:21:PHE:HB3	1.90	1.07
39:BT:107:LEU:HD22	39:BT:108:LYS:HG2	1.34	1.07
1:AA:25:C:OP1	12:AL:39:LYS:HG3	1.54	1.07
1:AA:65:U:O2'	1:AA:382:A:C6	2.06	1.07
1:AA:538:G:OP2	12:AL:142:LYS:HG3	1.52	1.07
1:AA:598:U:O2'	8:AH:88:TRP:CZ3	2.07	1.07
1:AA:989:C:C4'	1:AA:1013:G:N3	2.18	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1239:A:C4	7:AG:184:ARG:NH1	2.16	1.07
1:AA:1375:A:N1	7:AG:76:TYR:CZ	2.22	1.07
2:AT:501:LEU:HD11	12:AL:99:ASN:HD22	0.92	1.07
3:AB:141:PRO:CA	8:AH:68:LEU:HD11	1.85	1.07
10:AJ:73:GLY:O	14:AN:25:SER:CB	2.03	1.07
18:B3:906:C:C4	18:B3:1329:A:C4	2.41	1.07
18:B3:924:G:C6	41:BV:41:ARG:HG3	1.89	1.07
18:B3:1164:U:H2'	30:BK:51:LYS:HB2	1.19	1.07
18:B3:1358:A:C2'	23:BD:92:MET:CG	2.32	1.07
18:B3:1794:G:O2'	35:BP:96:ARG:HD3	0.89	1.07
18:B3:1812:G:N2	18:B3:2732:U:C5'	2.16	1.07
18:B3:1943:C:H5"	21:BB:218:ILE:CG1	1.84	1.07
18:B3:2671:U:C5'	22:BC:178:ALA:HB1	1.83	1.07
19:B4:69:U:C2'	24:BE:14:SER:CB	2.32	1.07
28:BI:36:LEU:HB3	28:BI:87:LEU:HB3	1.10	1.07
1:AA:14:U:C5'	1:AA:915:A:OP2	2.03	1.07
1:AA:265:G:H5"	16:AQ:130:ILE:O	1.55	1.07
1:AA:538:G:P	12:AL:143:PRO:CD	2.42	1.07
1:AA:619:U:O2	5:AD:127:VAL:O	1.73	1.07
1:AA:1301:U:C5'	13:AM:30:TYR:HA	1.83	1.07
1:AA:1309:G:H4'	13:AM:91:ASP:HB2	1.31	1.07
10:AJ:75:GLY:HA3	14:AN:40:GLN:HG3	1.18	1.07
11:AK:87:GLY:HA2	11:AK:96:GLY:HA3	1.26	1.07
18:B3:53:C:C2'	18:B3:122:C:OP2	1.97	1.07
18:B3:79:G:C4'	40:BU:27:ARG:HH12	1.67	1.07
18:B3:107:U:H6	44:BX:60:GLU:HA	1.15	1.07
18:B3:164:G:C3'	41:BV:31:ARG:CG	2.31	1.07
18:B3:243:A:P	31:BL:2:ALA:HB2	1.93	1.07
18:B3:635:A:H5"	23:BD:91:ASN:OD1	1.22	1.07
18:B3:678:G:H5'	23:BD:256:LYS:HB3	1.09	1.07
18:B3:760:G:H22	23:BD:101:PRO:HB3	0.97	1.07
18:B3:775:G:OP1	45:BY:27:HIS:CE1	2.07	1.07
18:B3:925:C:C4'	41:BV:28:PRO:HG3	1.84	1.07
18:B3:1098:A:OP2	25:BF:216:PRO:HB3	0.91	1.07
18:B3:1228:C:OP1	32:BM:45:GLU:O	1.70	1.07
18:B3:1694:G:N2	45:BY:5:PRO:HG3	1.49	1.07
18:B3:1761:U:N3	35:BP:77:TYR:OH	1.73	1.07
18:B3:2252:A:N7	21:BB:33:TYR:OH	1.88	1.07
18:B3:2671:U:C5'	22:BC:178:ALA:CB	2.27	1.07
18:B3:2808:U:O2'	22:BC:15:PHE:HB3	1.43	1.07
19:B4:10:C:N4	36:BQ:26:HIS:NE2	2.01	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:239:ARG:HA	22:BC:242:HIS:HB3	1.09	1.07
29:BJ:18:LEU:HG	29:BJ:68:VAL:HG21	1.37	1.07
29:BJ:20:ILE:HG21	29:BJ:65:ALA:HB3	1.35	1.07
34:BO:33:TYR:HB3	34:BO:36:LEU:HD12	1.34	1.07
42:B0:72:LYS:H	42:B0:90:LYS:HD2	1.19	1.07
1:AA:254:G:H4'	16:AQ:79:MET:CE	1.84	1.07
1:AA:357:G:OP1	1:AA:366:C:O5'	1.71	1.07
1:AA:599:C:H4'	8:AH:121:SER:CB	1.83	1.07
1:AA:620:C:H5'	5:AD:129:ILE:HD11	1.27	1.07
1:AA:634:C:H5"	16:AQ:92:TYR:O	1.52	1.07
1:AA:1329:A:H5'	13:AM:98:TYR:CZ	1.89	1.07
1:AA:1344:C:P	9:AI:136:ARG:HE	1.75	1.07
18:B3:215:A:H5"	41:BV:58:ARG:NE	1.69	1.07
18:B3:448:G:H3'	18:B3:1306:U:C4'	1.85	1.07
18:B3:646:G:H4'	23:BD:106:ARG:NH2	1.69	1.07
18:B3:672:G:O5'	23:BD:214:ILE:CG2	2.02	1.07
18:B3:678:G:H8	23:BD:259:GLN:HG3	1.20	1.07
18:B3:1025:C:O4'	25:BF:104:LEU:CD1	2.03	1.07
18:B3:1118:A:H5'	18:B3:1228:C:H5	1.04	1.07
18:B3:1181:A:C5	30:BK:106:LEU:HD13	1.79	1.07
18:B3:1348:A:C2	23:BD:42:ASN:ND2	2.23	1.07
18:B3:1809:G:O2'	18:B3:2731:G:O4'	1.54	1.07
18:B3:2407:G:N1	46:BZ:10:TYR:OH	1.85	1.07
18:B3:2408:A:H1'	46:BZ:19:HIS:NE2	0.74	1.07
18:B3:2806:C:H4'	22:BC:343:THR:CB	1.83	1.07
18:B3:2819:C:C2	22:BC:100:SER:CB	2.24	1.07
18:B3:2846:C:O2'	22:BC:172:GLN:OE1	1.70	1.07
19:B4:10:C:N4	36:BQ:26:HIS:CE1	2.22	1.07
19:B4:13:A:O2'	24:BE:20:PHE:CZ	2.08	1.07
22:BC:260:MET:HG3	32:BM:66:THR:HG22	1.30	1.07
28:BI:52:LEU:HD23	28:BI:134:ILE:HB	1.37	1.07
32:BM:137:LEU:HD13	32:BM:139:LYS:H	1.13	1.07
1:AA:131:C:O5'	16:AQ:128:ARG:HB3	1.30	1.06
1:AA:190(E):U:O5'	16:AQ:130:ILE:CD1	1.95	1.06
1:AA:293:G:O3'	1:AA:610:G:C1'	2.02	1.06
1:AA:554:C:C6	12:AL:45:GLY:CA	2.38	1.06
1:AA:620:C:O2'	5:AD:108:ARG:NH2	1.87	1.06
1:AA:777:A:O2'	11:AK:125:THR:C	1.93	1.06
1:AA:1318:A:C4	17:AS:56:PHE:CD1	2.41	1.06
2:AT:111:PHE:HB2	2:AT:484:SER:O	1.55	1.06
18:B3:449:A:C2	18:B3:1348:A:C6	2.42	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:672:G:H5'	23:BD:214:ILE:HG13	1.34	1.06
18:B3:700:A:OP2	41:BV:115:GLY:HA2	1.52	1.06
18:B3:945:U:H5'	25:BF:128:LEU:HD11	1.34	1.06
18:B3:953:G:H5"	36:BQ:13:TYR:CG	1.89	1.06
18:B3:1006:A:H5'	28:BI:16:PRO:HB3	1.37	1.06
18:B3:1244:U:OP1	32:BM:14:LEU:CD1	2.03	1.06
18:B3:1359:U:H5"	23:BD:91:ASN:HB2	1.09	1.06
18:B3:1847:A:N9	21:BB:180:LYS:CB	2.18	1.06
18:B3:1861:C:O2'	21:BB:7:GLN:O	1.71	1.06
18:B3:2345:A:OP2	29:BJ:22:VAL:CG1	2.03	1.06
19:B4:30:C:C4	24:BE:57:ASN:HB2	1.89	1.06
20:BA:108:ASN:ND2	20:BA:162:VAL:HG21	1.65	1.06
21:BB:82:HIS:CD2	47:B9:62:THR:O	2.07	1.06
22:BC:229:THR:HA	22:BC:234:THR:HG22	1.33	1.06
23:BD:33:ILE:HG22	23:BD:120:ALA:HB2	1.32	1.06
32:BM:7:VAL:HB	32:BM:115:LYS:HG2	1.08	1.06
33:BN:115:HIS:HB3	33:BN:148:VAL:HG21	1.28	1.06
35:BP:138:VAL:HA	35:BP:141:ILE:HD12	1.35	1.06
1:AA:21:G:O4'	1:AA:885:G:C5'	2.04	1.06
1:AA:55:A:N3	2:AT:67:GLY:O	1.87	1.06
1:AA:59:A:O3'	1:AA:388:G:H2'	1.15	1.06
1:AA:363:A:O3'	12:AL:50:LYS:CG	2.03	1.06
1:AA:402:G:H5"	5:AD:108:ARG:HH22	0.94	1.06
1:AA:1239:A:N7	13:AM:55:HIS:CE1	2.21	1.06
10:AJ:70:THR:O	14:AN:39:ARG:CA	2.01	1.06
18:B3:82:C:C1'	40:BU:75:ARG:NH1	2.17	1.06
18:B3:107:U:C1'	44:BX:56:THR:HA	1.85	1.06
18:B3:948:G:N3	36:BQ:100:LYS:HD2	1.41	1.06
18:B3:1003:U:P	28:BI:90:ARG:NE	2.28	1.06
18:B3:1316:G:OP1	42:B0:102:ALA:CB	2.02	1.06
18:B3:1785:G:C2'	18:B3:2733:U:OP1	2.03	1.06
18:B3:1800:G:C1'	35:BP:88:LEU:HB3	1.78	1.06
18:B3:2135:A:N1	18:B3:2239:C:N4	2.02	1.06
18:B3:2846:C:C3'	22:BC:174:LYS:HE3	1.84	1.06
18:B3:2853:U:H5"	22:BC:170:LEU:HG	1.30	1.06
24:BE:110:LEU:HD23	24:BE:171:LEU:H	1.15	1.06
26:BG:159:ILE:CD1	31:BL:40:ARG:HD2	1.85	1.06
27:BH:63:LYS:HE2	32:BM:129:LYS:HD2	1.37	1.06
27:BH:107:ASP:HB2	27:BH:127:PRO:HA	1.34	1.06
41:BV:111:ILE:HD11	41:BV:129:VAL:HB	1.37	1.06
1:AA:66:G:H5'	1:AA:173:U:N3	1.66	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:68:G:OP1	1:AA:172:A:H5'	1.52	1.06
1:AA:778:G:C3'	11:AK:126:ARG:HD2	1.86	1.06
1:AA:1296:C:C5'	13:AM:53:ASP:N	2.16	1.06
1:AA:1309:G:H3'	13:AM:92:ILE:HG13	1.26	1.06
5:AD:143:ILE:HG23	5:AD:146:PHE:HB2	1.36	1.06
6:AE:151:HIS:HB3	6:AE:193:GLU:HB2	1.36	1.06
18:B3:539:G:OP1	42:B0:23:ASP:HB2	1.53	1.06
18:B3:945:U:H5'	25:BF:128:LEU:CD1	1.84	1.06
18:B3:1115:U:C1'	18:B3:1224:G:O2'	1.92	1.06
18:B3:1206:C:C2'	18:B3:1207:A:O5'	1.95	1.06
18:B3:1675:C:C5'	39:BT:113:VAL:O	2.02	1.06
18:B3:1786:C:H2'	18:B3:2883:A:H5"	1.37	1.06
18:B3:2403:C:H2'	36:BQ:69:LYS:HD2	1.31	1.06
18:B3:2654:C:C2'	22:BC:259:VAL:HG13	1.85	1.06
19:B4:98:C:O2'	25:BF:222:PHE:CD1	1.92	1.06
22:BC:237:LEU:HB3	22:BC:238:PRO:HA	1.38	1.06
26:BG:161:LEU:CD2	31:BL:3:TYR:OH	2.00	1.06
32:BM:8:ILE:HD12	32:BM:18:LEU:HD11	1.35	1.06
1:AA:64:G:N2	1:AA:73:C:C4	2.23	1.06
1:AA:129:U:O3'	16:AQ:127:CYS:CA	2.03	1.06
1:AA:401:C:H5"	5:AD:78:ARG:HG3	1.29	1.06
1:AA:866:C:H5'	1:AA:1079:G:N1	1.63	1.06
1:AA:1315:U:O4	17:AS:49:MET:HB3	1.55	1.06
1:AA:1343:G:O3'	9:AI:136:ARG:CB	2.03	1.06
10:AJ:70:THR:OG1	14:AN:36:ASN:HB3	0.90	1.06
10:AJ:76:SER:OG	14:AN:27:THR:HG23	0.89	1.06
13:AM:91:ASP:HB3	13:AM:113:LEU:HD12	1.36	1.06
13:AM:92:ILE:N	13:AM:109:LEU:HD11	1.64	1.06
18:B3:107:U:H6	44:BX:60:GLU:CA	1.67	1.06
18:B3:487:G:O5'	40:BU:90:VAL:CB	2.04	1.06
18:B3:539:G:C2	42:B0:50:ILE:HD13	1.90	1.06
18:B3:541:C:H6	42:B0:15:LYS:CB	1.68	1.06
18:B3:618:G:H2'	42:B0:41:VAL:HG23	1.07	1.06
18:B3:677:C:OP1	23:BD:121:THR:CG2	2.03	1.06
18:B3:699:C:OP2	41:BV:115:GLY:N	1.88	1.06
18:B3:721:A:C5'	34:BO:71:LEU:HB3	1.85	1.06
18:B3:1118:A:H4'	18:B3:1228:C:N4	1.69	1.06
18:B3:1184:A:H4'	30:BK:86:LYS:HB2	1.36	1.06
18:B3:1235:G:O6	32:BM:69:PRO:HD3	1.54	1.06
18:B3:2434:A:OP1	46:BZ:35:PHE:CB	2.03	1.06
18:B3:2654:C:H1'	22:BC:259:VAL:HG12	1.11	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2763:G:H4'	37:BR:84:SER:H	1.10	1.06
19:B4:51:A:N1	24:BE:58:LYS:HG2	1.16	1.06
19:B4:69:U:C2'	24:BE:14:SER:HB2	1.85	1.06
21:BB:177:PRO:CB	47:B9:22:ARG:HH11	1.66	1.06
22:BC:359:ASP:CA	38:BS:16:GLY:H	1.67	1.06
23:BD:11:THR:HG23	23:BD:13:GLU:H	1.11	1.06
25:BF:177:ILE:HD12	25:BF:178:LEU:HD12	1.28	1.06
26:BG:159:ILE:HD11	31:BL:40:ARG:HD2	1.35	1.06
29:BJ:75:ALA:HA	29:BJ:78:ILE:HG13	1.36	1.06
34:BO:81:VAL:HG12	34:BO:138:LEU:HB2	1.35	1.06
34:BO:95:GLU:HG3	34:BO:97:PRO:HD2	1.38	1.06
1:AA:13:U:H4'	1:AA:913:A:O2'	1.55	1.06
1:AA:143:A:H4'	1:AA:199:G:H2'	1.29	1.06
1:AA:537:G:H5"	12:AL:143:PRO:HG2	1.33	1.06
1:AA:713:G:C2	11:AK:124:SER:C	2.29	1.06
1:AA:988:G:C4'	1:AA:1014:A:O5'	2.04	1.06
1:AA:989:C:H5'	1:AA:1013:G:C1'	1.86	1.06
1:AA:1301:U:C5'	13:AM:30:TYR:CA	2.33	1.06
1:AA:1340:A:C2'	9:AI:141:TYR:CZ	2.39	1.06
14:AN:23:CYS:HB3	14:AN:37:ILE:HA	1.37	1.06
18:B3:106:A:O2'	44:BX:57:VAL:CA	2.03	1.06
18:B3:124:C:C6	39:BT:88:LYS:HD2	1.91	1.06
18:B3:265:U:C5'	31:BL:55:LYS:HZ2	1.56	1.06
18:B3:448:G:C2	23:BD:47:GLN:CG	2.07	1.06
18:B3:517:U:C2'	18:B3:1319:G:H22	1.67	1.06
18:B3:635:A:C5'	23:BD:91:ASN:ND2	2.16	1.06
18:B3:658:C:H5'	23:BD:119:TYR:OH	1.54	1.06
18:B3:678:G:H8	23:BD:259:GLN:CG	1.69	1.06
18:B3:903:U:OP2	41:BV:14:VAL:HG21	1.56	1.06
18:B3:1131:G:C5	18:B3:2523:U:H5'	1.91	1.06
18:B3:1163:G:O6	30:BK:51:LYS:CE	2.01	1.06
18:B3:1164:U:C5'	30:BK:47:ALA:O	2.03	1.06
18:B3:1467:C:OP1	31:BL:33:ASN:OD1	1.70	1.06
18:B3:2060:A:O2'	42:B0:24:ARG:CD	2.03	1.06
18:B3:2441:U:O3'	41:BV:61:HIS:CE1	2.07	1.06
18:B3:2489:G:C2'	18:B3:2490:A:N7	2.19	1.06
18:B3:2657:G:OP1	22:BC:19:LYS:CA	2.01	1.06
19:B4:47:A:C4'	24:BE:160:PHE:HE2	1.69	1.06
22:BC:42:LEU:HD22	22:BC:202:VAL:HG21	1.38	1.06
22:BC:260:MET:HB3	32:BM:66:THR:HG21	1.07	1.06
31:BL:18:LEU:HD12	31:BL:21:LEU:HD21	1.38	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:82:LYS:HE3	46:BZ:49:PHE:CA	1.82	1.06
33:BN:63:ASN:HB2	33:BN:66:ILE:HG12	1.38	1.06
40:BU:60:ARG:HB2	40:BU:103:LYS:HB2	1.38	1.06
1:AA:125:U:H5'	1:AA:291:C:C4'	1.85	1.05
1:AA:255:G:H5"	16:AQ:81:ARG:HB3	1.27	1.05
1:AA:400:C:H4'	5:AD:77:ILE:HD11	1.37	1.05
1:AA:988:G:H4'	1:AA:1014:A:O5'	1.54	1.05
1:AA:1299:A:N6	13:AM:55:HIS:ND1	2.04	1.05
1:AA:1329:A:O4'	13:AM:98:TYR:CD1	2.07	1.05
1:AA:1501:C:H5"	1:AA:1508:G:O2'	1.40	1.05
5:AD:85:VAL:HG13	5:AD:86:LEU:HD22	1.36	1.05
14:AN:20:CYS:HB2	14:AN:29:LEU:HG	1.37	1.05
18:B3:433:C:C5'	31:BL:149:TRP:CZ3	2.39	1.05
18:B3:1306:U:H5'	23:BD:195:ASN:ND2	1.71	1.05
18:B3:1316:G:P	42:B0:102:ALA:CB	2.43	1.05
18:B3:1812:G:H1'	18:B3:2732:U:O3'	1.53	1.05
18:B3:2167:A:N6	20:BA:60:ARG:NH2	2.04	1.05
18:B3:2671:U:H5'	22:BC:178:ALA:HA	1.31	1.05
22:BC:69:ARG:CD	37:BR:89:ASP:CB	2.23	1.05
25:BF:206:LEU:HD11	25:BF:242:MET:HA	1.34	1.05
40:BU:111:LEU:HA	40:BU:116:LYS:HE3	1.37	1.05
42:B0:79:VAL:HG23	42:B0:109:LEU:HD22	1.34	1.05
1:AA:754:C:H1'	15:AO:127:TYR:CD2	1.91	1.05
1:AA:920:U:C4'	1:AA:1080:A:C1'	2.33	1.05
1:AA:1406:U:O2	1:AA:1517:G:O2'	1.74	1.05
2:AT:140:GLU:CG	2:AT:481:MET:CA	2.25	1.05
2:AT:464:LEU:HB3	2:AT:510:ARG:HA	1.05	1.05
11:AK:26:PHE:HE1	11:AK:39:ALA:HB1	1.21	1.05
18:B3:375:G:N2	18:B3:411:A:C8	2.17	1.05
18:B3:449:A:C4'	18:B3:1306:U:C5	2.37	1.05
18:B3:501:G:C1'	33:BN:16:ALA:HB2	1.86	1.05
18:B3:882:A:H1'	45:BY:2:LYS:HG2	1.07	1.05
18:B3:921:G:H5'	41:BV:42:ILE:N	1.54	1.05
18:B3:951:A:H5"	36:BQ:43:LYS:CD	1.84	1.05
18:B3:967:U:O2'	28:BI:34:TYR:CE2	2.08	1.05
18:B3:1067:A:OP1	25:BF:96:PRO:CG	2.04	1.05
18:B3:1402:G:OP1	43:BW:62:GLY:HA3	1.54	1.05
18:B3:1566:C:C5'	35:BP:57:HIS:CE1	2.39	1.05
18:B3:1673:U:H1'	39:BT:91:LYS:N	1.18	1.05
18:B3:1855:G:O6	21:BB:150:PRO:HD2	1.53	1.05
18:B3:2333:G:O2'	29:BJ:113:ILE:O	1.73	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2408:A:C1'	46:BZ:19:HIS:CD2	2.27	1.05
18:B3:2468:A:C4	46:BZ:55:PRO:HG3	1.90	1.05
18:B3:2737:C:O3'	35:BP:58:SER:C	1.95	1.05
21:BB:27:LYS:HA	21:BB:122:ARG:HD2	1.38	1.05
21:BB:101:LEU:HD11	21:BB:105:SER:HB2	1.34	1.05
24:BE:75:LEU:HD21	24:BE:109:THR:HG23	1.38	1.05
27:BH:54:LYS:HA	27:BH:54:LYS:HE3	1.39	1.05
29:BJ:87:GLU:HG2	29:BJ:90:LEU:HG	1.31	1.05
31:BL:188:LYS:HA	31:BL:188:LYS:HE3	1.37	1.05
43:BW:15:LEU:HA	43:BW:19:LEU:HD12	1.06	1.05
47:B9:54:TRP:HE1	47:B9:70:VAL:HG23	1.16	1.05
1:AA:66:G:N2	1:AA:69:G:C4	2.25	1.05
1:AA:132:C:C2	1:AA:263:A:N3	2.25	1.05
1:AA:319:G:C1'	1:AA:1434:A:N1	2.18	1.05
1:AA:402:G:H4'	1:AA:620:C:H2'	1.06	1.05
1:AA:552:U:OP1	12:AL:108:GLY:O	1.72	1.05
1:AA:581:G:OP1	15:AO:119:SER:CB	2.04	1.05
1:AA:1071:C:OP1	6:AE:90:ARG:CA	2.05	1.05
1:AA:1307:U:C4	13:AM:94:ASP:OD1	2.08	1.05
5:AD:91:LYS:N	6:AE:173:ARG:O	1.90	1.05
6:AE:107:ASN:CG	6:AE:143:TRP:H	1.53	1.05
10:AJ:70:THR:HA	14:AN:42:PHE:CA	1.86	1.05
13:AM:126:ARG:NH1	17:AS:121:ILE:HG13	1.70	1.05
18:B3:677:C:O2'	23:BD:259:GLN:HB3	1.50	1.05
18:B3:1018:A:O2'	36:BQ:60:LYS:HB3	1.54	1.05
18:B3:1055:G:H1'	28:BI:111:LEU:HB2	1.37	1.05
18:B3:1056:U:C4'	28:BI:8:CYS:HB3	1.74	1.05
18:B3:1232:A:H2'	18:B3:2524:G:O3'	1.55	1.05
18:B3:1816:C:C6	18:B3:2746:A:N3	2.25	1.05
18:B3:2245:C:O2	18:B3:2256:G:N2	1.88	1.05
18:B3:2381:C:C1'	46:BZ:10:TYR:CG	2.39	1.05
19:B4:47:A:H4'	24:BE:160:PHE:HE2	1.13	1.05
19:B4:49:G:O5'	24:BE:158:ARG:HG2	1.56	1.05
1:AA:335:C:H2'	1:AA:1433:A:H2'	1.06	1.05
1:AA:402:G:H5"	5:AD:108:ARG:NH2	1.71	1.05
1:AA:518:C:HO2'	12:AL:66:SER:C	1.59	1.05
1:AA:560:U:O2	1:AA:563:A:H4'	1.56	1.05
1:AA:1300:G:P	13:AM:26:ILE:HD11	1.97	1.05
1:AA:1309:G:C5	13:AM:92:ILE:HG22	1.83	1.05
1:AA:1331:G:C5	13:AM:41:ARG:HB2	1.91	1.05
2:AT:464:LEU:CB	2:AT:510:ARG:HA	1.87	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:91:LYS:CA	6:AE:174:GLY:HA3	1.84	1.05
6:AE:170:PRO:HD2	8:AH:96:ARG:HB2	1.33	1.05
10:AJ:93:LEU:HD23	10:AJ:99:ILE:HD13	1.39	1.05
18:B3:540:A:H5"	42:B0:17:PHE:CA	1.86	1.05
18:B3:541:C:H3'	42:B0:15:LYS:HB2	1.29	1.05
18:B3:629:A:H5"	42:B0:38:ILE:CG2	1.85	1.05
18:B3:1309:U:O3'	23:BD:203:GLY:CA	2.03	1.05
18:B3:1733:A:C1'	22:BC:225:PHE:CE1	2.34	1.05
18:B3:2165:G:O2'	20:BA:33:GLU:CG	2.04	1.05
18:B3:2214:A:N1	20:BA:105:LYS:NZ	2.05	1.05
18:B3:2312:G:C5'	28:BI:22:TYR:CD1	2.16	1.05
18:B3:2738:G:H8	35:BP:59:LYS:NZ	1.46	1.05
18:B3:2762:C:O2'	37:BR:83:LYS:CD	2.03	1.05
21:BB:47:ILE:HD11	47:B9:53:ILE:CD1	1.86	1.05
21:BB:167:VAL:HG21	47:B9:74:ALA:O	1.54	1.05
26:BG:157:ASP:HB2	26:BG:159:ILE:HG12	1.33	1.05
41:BV:126:ALA:H	41:BV:145:GLU:HB2	1.16	1.05
1:AA:102:G:C1'	1:AA:151:A:O2'	2.03	1.05
1:AA:190(E):U:C5'	16:AQ:109:HIS:CD2	2.39	1.05
1:AA:190(E):U:H4'	16:AQ:109:HIS:CD2	1.53	1.05
1:AA:292:G:O2'	1:AA:608:A:N7	1.90	1.05
1:AA:619:U:C2'	5:AD:129:ILE:CD1	2.32	1.05
1:AA:677:U:C5	11:AK:121:PRO:HG2	1.92	1.05
1:AA:1071:C:P	6:AE:90:ARG:HG2	1.97	1.05
1:AA:1301:U:O2'	13:AM:29:VAL:HG21	1.55	1.05
1:AA:1318:A:C6	17:AS:56:PHE:CZ	2.43	1.05
1:AA:1318:A:C4	17:AS:56:PHE:HE1	1.64	1.05
1:AA:1319:A:C8	17:AS:49:MET:HE1	1.88	1.05
1:AA:1329:A:C5	13:AM:97:ASP:OD1	2.09	1.05
4:AC:171:THR:HG22	4:AC:184:LYS:HD3	1.33	1.05
18:B3:67:A:O5'	44:BX:55:LEU:CD2	2.02	1.05
18:B3:68:U:O4'	44:BX:55:LEU:CB	1.96	1.05
18:B3:78:G:O2'	40:BU:27:ARG:NH2	1.90	1.05
18:B3:107:U:H1'	44:BX:56:THR:CG2	1.86	1.05
18:B3:1501:A:H5"	35:BP:37:ARG:HD3	1.35	1.05
18:B3:1847:A:C8	21:BB:180:LYS:HB3	1.91	1.05
18:B3:2519:C:H1'	28:BI:158:LYS:HA	1.09	1.05
20:BA:43:PRO:CD	20:BA:132:GLY:HA3	1.85	1.05
22:BC:92:VAL:HG23	22:BC:101:LEU:HD11	1.39	1.05
23:BD:103:LYS:HE2	23:BD:106:ARG:HB3	1.37	1.05
28:BI:30:LYS:HG3	28:BI:66:GLU:HG3	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:80:THR:HB	34:BO:101:VAL:HG13	1.06	1.05
37:BR:32:ARG:HB2	37:BR:64:LYS:HB3	1.08	1.05
1:AA:320:C:H5'	1:AA:1435:G:H21	1.19	1.04
1:AA:615:C:O4'	5:AD:149:ARG:NH1	1.69	1.04
1:AA:913:A:OP2	12:AL:62:LYS:NZ	1.88	1.04
1:AA:1176:A:C2'	9:AI:107:ALA:HA	1.87	1.04
1:AA:1220:G:HO2'	17:AS:95:GLY:C	1.61	1.04
1:AA:1314:C:C5	17:AS:49:MET:O	2.10	1.04
1:AA:1343:G:C4'	9:AI:138:GLN:HA	1.86	1.04
1:AA:1496:C:O2	1:AA:1518:A:C4	2.10	1.04
18:B3:165:A:C5'	41:BV:31:ARG:H	1.69	1.04
18:B3:537:G:O3'	42:B0:21:HIS:NE2	1.90	1.04
18:B3:541:C:C6	42:B0:15:LYS:CB	2.39	1.04
18:B3:751:U:C4'	23:BD:36:THR:HG21	1.87	1.04
18:B3:844:A:C5'	33:BN:133:GLY:HA2	1.84	1.04
18:B3:882:A:C5'	45:BY:2:LYS:HA	1.86	1.04
18:B3:949:U:O4'	36:BQ:100:LYS:HB2	1.28	1.04
18:B3:1285:U:C3'	25:BF:155:ILE:HG23	1.86	1.04
18:B3:1383:U:HO2'	43:BW:32:VAL:CG1	1.65	1.04
18:B3:1449:G:C5'	39:BT:110:ASN:ND2	2.19	1.04
18:B3:1809:G:H5"	18:B3:2866:U:OP1	1.57	1.04
18:B3:1816:C:N1	18:B3:2746:A:N3	2.05	1.04
18:B3:2038:A:OP1	37:BR:47:ASN:CG	1.94	1.04
18:B3:2328:U:OP1	24:BE:153:THR:OG1	1.72	1.04
18:B3:2335:C:C6	29:BJ:116:ASP:CG	2.15	1.04
18:B3:2381:C:H1'	46:BZ:10:TYR:CG	1.92	1.04
18:B3:2660:G:P	33:BN:71:GLN:NE2	2.29	1.04
19:B4:117:G:O2'	24:BE:69:ILE:HG22	1.54	1.04
21:BB:179:LEU:HD23	47:B9:20:SER:CB	1.83	1.04
24:BE:184:ASP:HA	24:BE:187:THR:HG23	1.39	1.04
29:BJ:133:PRO:HG2	29:BJ:135:ALA:H	1.19	1.04
31:BL:46:LYS:HD2	31:BL:118:TYR:HE1	1.18	1.04
32:BM:125:VAL:HA	32:BM:128:LEU:HD11	1.11	1.04
35:BP:43:LEU:HG	35:BP:49:ILE:HG13	1.05	1.04
1:AA:131:C:C4'	1:AA:264:U:H4'	1.82	1.04
1:AA:190(F):G:OP1	16:AQ:81:ARG:NH1	1.89	1.04
1:AA:1302:U:C3'	13:AM:54:LEU:HD21	1.74	1.04
1:AA:1344:C:P	9:AI:136:ARG:CB	2.44	1.04
1:AA:1345:U:N3	7:AG:76:TYR:CE1	2.24	1.04
1:AA:1496:C:C4	1:AA:1517:G:N2	1.95	1.04
3:AB:123:THR:HB	3:AB:173:TRP:HZ2	1.21	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:111:C:C4'	18:B3:119:A:N6	2.19	1.04
18:B3:552:A:H5'	42:B0:118:LYS:HE3	1.36	1.04
18:B3:967:U:H1'	28:BI:34:TYR:HE2	1.19	1.04
18:B3:1673:U:O3'	39:BT:94:ILE:HD12	1.56	1.04
18:B3:1785:G:H1	18:B3:2884:G:H5'	1.19	1.04
18:B3:1814:G:N3	18:B3:2733:U:H6	1.56	1.04
18:B3:1855:G:C6	21:BB:150:PRO:CD	2.39	1.04
18:B3:2460:A:O2'	46:BZ:60:LYS:CG	2.04	1.04
18:B3:2704:C:C2	27:BH:121:LYS:HD2	1.91	1.04
18:B3:2764:C:OP1	37:BR:13:ILE:HA	1.56	1.04
21:BB:115:VAL:HG22	21:BB:125:LEU:HB2	1.39	1.04
27:BH:12:VAL:HG13	27:BH:13:PRO:HD3	1.38	1.04
27:BH:103:ILE:HD13	27:BH:134:ILE:HB	1.05	1.04
36:BQ:40:VAL:HG13	36:BQ:97:LYS:HA	1.09	1.04
1:AA:31:G:N3	1:AA:47:C:OP1	1.89	1.04
1:AA:553:A:N3	12:AL:46:SER:HA	1.70	1.04
1:AA:619:U:O2'	5:AD:129:ILE:CG1	2.06	1.04
1:AA:1220:G:H2'	17:AS:78:THR:O	1.26	1.04
1:AA:1301:U:H5'	13:AM:30:TYR:N	1.70	1.04
5:AD:113:VAL:HG23	5:AD:125:ALA:HB1	1.31	1.04
9:AI:97:ASP:H	9:AI:104:LEU:HB2	1.18	1.04
13:AM:17:LEU:HD21	13:AM:69:ILE:HD12	1.40	1.04
18:B3:493:U:C4'	33:BN:99:ALA:HB1	1.86	1.04
18:B3:906:C:C2	18:B3:1329:A:N9	2.22	1.04
18:B3:1010:C:H4'	24:BE:15:ARG:HG3	1.34	1.04
18:B3:1206:C:N3	18:B3:1207:A:C4	1.75	1.04
18:B3:1874:U:C4	21:BB:124:ALA:HB1	1.91	1.04
18:B3:1943:C:H4'	21:BB:218:ILE:HD11	1.08	1.04
18:B3:2165:G:C4	20:BA:207:LYS:HE2	1.92	1.04
18:B3:2166:G:O6	20:BA:61:PRO:CA	2.05	1.04
18:B3:2912:C:H42	22:BC:125:LYS:HA	1.21	1.04
19:B4:47:A:H5'	24:BE:153:THR:C	1.77	1.04
24:BE:65:ILE:HG21	24:BE:73:VAL:HG23	1.38	1.04
27:BH:116:ASN:HB3	27:BH:119:GLY:HA2	1.06	1.04
32:BM:25:GLN:HG2	32:BM:30:GLN:HB2	1.37	1.04
41:BV:117:ILE:HG22	41:BV:118:PRO:HA	1.35	1.04
1:AA:523:A:C2	12:AL:115:GLY:N	2.26	1.04
1:AA:1059:C:H4'	14:AN:40:GLN:HE22	1.17	1.04
1:AA:1071:C:P	6:AE:90:ARG:CG	2.41	1.04
1:AA:1349:A:H5"	9:AI:135:SER:HB3	1.36	1.04
4:AC:105:LYS:HD3	4:AC:174:VAL:HG23	1.37	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:78:LYS:HA	16:AQ:78:LYS:HE2	1.36	1.04
18:B3:35:U:H5"	23:BD:104:THR:CB	1.88	1.04
18:B3:124:C:C6	39:BT:88:LYS:NZ	2.26	1.04
18:B3:170:U:OP1	31:BL:82:LYS:HB2	1.57	1.04
18:B3:620:A:H4'	42:B0:40:SER:HB2	1.32	1.04
18:B3:777:U:H1'	45:BY:12:ASN:HD21	1.23	1.04
18:B3:1086:A:N6	25:BF:92:ASN:ND2	1.73	1.04
18:B3:1566:C:H4'	35:BP:56:VAL:HG12	1.34	1.04
18:B3:1882:C:OP2	21:BB:199:ARG:C	1.96	1.04
18:B3:2283:G:N7	28:BI:106:ALA:CB	2.21	1.04
18:B3:2413:A:H1'	24:BE:174:PRO:CA	1.87	1.04
18:B3:2413:A:H2'	24:BE:174:PRO:HB3	1.38	1.04
18:B3:2719:A:H2	37:BR:91:VAL:HG13	1.22	1.04
18:B3:2819:C:C4'	22:BC:99:ARG:O	2.04	1.04
18:B3:2829:G:O4'	22:BC:128:ALA:N	1.79	1.04
19:B4:50:G:C2'	24:BE:93:THR:N	2.12	1.04
19:B4:85:A:O2'	25:BF:228:PHE:CZ	2.09	1.04
22:BC:84:VAL:HG12	22:BC:201:THR:HG23	1.33	1.04
24:BE:110:LEU:HG	24:BE:171:LEU:HB2	1.39	1.04
27:BH:71:VAL:HG21	32:BM:127:ARG:HH12	1.20	1.04
41:BV:80:LEU:HD23	41:BV:81:ILE:HG12	1.39	1.04
1:AA:866:C:C5'	1:AA:1079:G:H1	1.69	1.04
1:AA:1219:U:O3'	17:AS:59:LYS:N	1.90	1.04
1:AA:1502:A:OP2	1:AA:1508:G:O4'	1.74	1.04
7:AG:111:ARG:HH21	9:AI:41:GLU:CB	1.64	1.04
18:B3:80:A:H4'	40:BU:73:VAL:CG1	1.87	1.04
18:B3:107:U:C1'	44:BX:56:THR:CA	2.33	1.04
18:B3:670:G:H22	23:BD:231:SER:CA	1.71	1.04
18:B3:1098:A:P	25:BF:216:PRO:HB3	1.96	1.04
18:B3:1309:U:OP2	23:BD:203:GLY:O	1.75	1.04
18:B3:1348:A:O3'	23:BD:35:HIS:O	1.76	1.04
18:B3:1733:A:H1'	22:BC:225:PHE:HD1	0.97	1.04
18:B3:1872:C:N3	21:BB:22:ARG:HG2	1.73	1.04
18:B3:2064:U:O3'	22:BC:256:PRO:HA	1.54	1.04
18:B3:2093:G:H1'	22:BC:252:GLY:O	0.87	1.04
18:B3:2136:G:N2	18:B3:2238:A:N1	2.01	1.04
18:B3:2166:G:O6	20:BA:61:PRO:CG	2.06	1.04
18:B3:2408:A:C2'	46:BZ:19:HIS:CD2	2.41	1.04
19:B4:48:C:C3'	24:BE:158:ARG:HG2	1.83	1.04
25:BF:167:ILE:HG21	25:BF:183:LEU:HD11	1.39	1.04
27:BH:41:ILE:HG22	32:BM:126:LEU:HD23	1.07	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:7:G:O4'	1:AA:298:A:H8	1.21	1.03
1:AA:66:G:C2	1:AA:69:G:C6	2.45	1.03
1:AA:66:G:N2	1:AA:69:G:C5	2.26	1.03
1:AA:190(E):U:C2	16:AQ:131:SER:HB3	1.90	1.03
1:AA:499:A:H2	1:AA:546:G:C2'	1.70	1.03
1:AA:568:G:OP1	6:AE:202:LYS:HE2	1.58	1.03
1:AA:861:G:H5'	8:AH:18:LYS:HE3	1.37	1.03
1:AA:866:C:H5'	1:AA:1079:G:H1	0.88	1.03
1:AA:919:A:H4'	1:AA:1079:G:C2	1.94	1.03
1:AA:987:G:C5	17:AS:77:ARG:HD3	1.92	1.03
10:AJ:70:THR:N	14:AN:42:PHE:HB3	1.73	1.03
10:AJ:82:TYR:OH	14:AN:43:ARG:NH1	1.90	1.03
18:B3:155:C:OP2	31:BL:190:TRP:CE2	2.11	1.03
18:B3:399:C:P	31:BL:180:ASN:HB2	1.98	1.03
18:B3:538:C:C4	42:B0:21:HIS:CE1	2.44	1.03
18:B3:670:G:N2	23:BD:231:SER:CA	2.20	1.03
18:B3:906:C:C2	18:B3:1329:A:C4	2.46	1.03
18:B3:1067:A:P	25:BF:96:PRO:HG2	1.96	1.03
18:B3:1206:C:O2'	18:B3:1207:A:O5'	1.73	1.03
18:B3:1383:U:HO2'	43:BW:32:VAL:HG12	0.87	1.03
18:B3:1508:C:C4'	39:BT:77:ASP:HB2	1.87	1.03
18:B3:1786:C:N3	18:B3:2883:A:C4'	2.03	1.03
18:B3:2705:U:C4'	27:BH:122:LYS:CE	2.32	1.03
22:BC:69:ARG:HD2	37:BR:88:ARG:HD2	1.04	1.03
34:BO:40:THR:HG21	34:BO:133:LYS:HB2	1.39	1.03
34:BO:59:ARG:HG2	34:BO:60:PRO:HA	1.36	1.03
39:BT:81:LEU:HB2	39:BT:122:TYR:HB2	1.40	1.03
1:AA:131:C:O5'	16:AQ:128:ARG:CB	1.94	1.03
1:AA:335:C:C2'	1:AA:1434:A:H8	1.71	1.03
1:AA:1106:G:H5"	4:AC:155:PHE:HE2	1.21	1.03
1:AA:1302:U:C3'	13:AM:54:LEU:HD22	1.71	1.03
1:AA:1344:C:OP1	9:AI:136:ARG:HD3	1.52	1.03
1:AA:1497:G:C8	1:AA:1517:G:O6	2.10	1.03
18:B3:501:G:O4'	33:BN:16:ALA:CA	1.92	1.03
18:B3:540:A:O5'	42:B0:15:LYS:HE3	1.30	1.03
18:B3:618:G:C2'	42:B0:41:VAL:CG2	2.35	1.03
18:B3:772:G:N3	45:BY:46:TYR:CE2	2.26	1.03
18:B3:1006:A:O4'	28:BI:16:PRO:HG3	1.52	1.03
18:B3:1181:A:H4'	30:BK:109:ILE:HG13	1.08	1.03
18:B3:1309:U:OP1	23:BD:205:LEU:N	1.89	1.03
18:B3:1385:G:OP1	43:BW:36:LYS:HE2	1.58	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1397:C:O3'	35:BP:23:LEU:HB2	1.22	1.03
18:B3:2319:C:OP2	46:BZ:1:VAL:CG2	2.06	1.03
18:B3:2351:C:N3	29:BJ:115:TYR:HA	1.13	1.03
18:B3:2558:G:C2'	18:B3:2799:A:O2'	2.06	1.03
27:BH:94:TYR:HB3	27:BH:177:ASP:HA	1.41	1.03
31:BL:72:ARG:HD3	31:BL:91:LEU:HD11	1.38	1.03
1:AA:319:G:C5	1:AA:1434:A:H2	1.76	1.03
1:AA:1344:C:OP1	9:AI:136:ARG:CB	2.07	1.03
1:AA:1503:A:N7	1:AA:1531:A:C2	2.25	1.03
3:AB:66:ILE:HG23	3:AB:70:GLU:HB2	1.40	1.03
12:AL:112:LYS:HG2	12:AL:121:ARG:HA	1.40	1.03
18:B3:215:A:O5'	41:BV:58:ARG:HD2	1.56	1.03
18:B3:516:A:C1'	18:B3:1340:G:C5'	2.29	1.03
18:B3:538:C:C2	42:B0:21:HIS:CE1	2.47	1.03
18:B3:622:G:OP2	42:B0:36:LYS:HA	1.57	1.03
18:B3:677:C:H1'	23:BD:230:ALA:HA	1.07	1.03
18:B3:925:C:C4'	41:BV:28:PRO:CG	2.35	1.03
18:B3:1055:G:N2	28:BI:108:ALA:HB3	1.73	1.03
18:B3:1167:G:H8	30:BK:111:GLU:OE2	1.39	1.03
18:B3:1652:C:H5'	21:BB:174:VAL:CG1	1.88	1.03
18:B3:2461:U:O5'	46:BZ:60:LYS:CG	1.92	1.03
18:B3:2763:G:O5'	37:BR:14:SER:HB3	1.58	1.03
19:B4:117:G:C4	24:BE:70:THR:CG2	2.40	1.03
20:BA:51:GLY:O	20:BA:54:LYS:O	1.73	1.03
22:BC:358:ILE:CA	38:BS:15:PRO:HB2	1.87	1.03
23:BD:191:GLY:HA2	23:BD:194:ARG:HD3	1.39	1.03
27:BH:129:ARG:HB3	27:BH:153:ASP:HB2	1.41	1.03
28:BI:38:LYS:HE2	28:BI:41:ALA:HB3	1.37	1.03
28:BI:38:LYS:HG2	28:BI:40:LYS:HE3	1.38	1.03
28:BI:48:LEU:HD22	28:BI:139:ARG:HB2	1.40	1.03
33:BN:127:ARG:H	33:BN:138:TYR:H	1.04	1.03
37:BR:80:ARG:H	37:BR:99:ALA:HB3	1.21	1.03
41:BV:90:LEU:HD13	41:BV:96:GLU:HG3	1.33	1.03
47:B9:48:ARG:HA	47:B9:54:TRP:HB3	1.06	1.03
1:AA:143:A:C4'	1:AA:199:G:H2'	1.86	1.03
1:AA:190(E):U:O5'	16:AQ:109:HIS:HB3	1.58	1.03
1:AA:190(E):U:O3'	16:AQ:109:HIS:CE1	2.12	1.03
1:AA:1318:A:N3	17:AS:56:PHE:CD1	2.27	1.03
3:AB:139:ASN:HB2	8:AH:69:ASN:O	1.51	1.03
9:AI:100:SER:HA	9:AI:116:LEU:HD22	1.37	1.03
10:AJ:71:PRO:CG	14:AN:36:ASN:CB	2.36	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:53:C:C5'	18:B3:121:U:H3'	1.85	1.03
18:B3:72:C:O2'	44:BX:53:CYS:SG	2.17	1.03
18:B3:215:A:H5"	41:BV:58:ARG:CG	1.88	1.03
18:B3:693:A:C4'	41:BV:59:TYR:CZ	2.23	1.03
18:B3:745:G:O6	34:BO:65:SER:HB3	1.58	1.03
18:B3:793:A:OP1	35:BP:83:THR:CG2	2.05	1.03
18:B3:903:U:OP2	41:BV:14:VAL:CG2	2.07	1.03
18:B3:1055:G:H1'	28:BI:111:LEU:CB	1.80	1.03
18:B3:1116:U:C2'	18:B3:1226:G:C8	2.41	1.03
18:B3:1285:U:C4'	25:BF:155:ILE:CD1	2.04	1.03
18:B3:1316:G:OP1	42:B0:102:ALA:N	1.91	1.03
18:B3:2050:G:O2'	33:BN:85:LYS:HD2	1.56	1.03
20:BA:43:PRO:CD	20:BA:132:GLY:CA	2.37	1.03
20:BA:55:LEU:HD23	20:BA:167:VAL:HA	1.07	1.03
22:BC:41:ALA:HA	22:BC:182:LEU:HB3	1.39	1.03
25:BF:126:LEU:HB3	25:BF:135:TYR:HE1	1.21	1.03
31:BL:161:ARG:HH11	31:BL:164:THR:HA	1.22	1.03
41:BV:97:THR:HG21	41:BV:124:VAL:HG22	1.40	1.03
1:AA:254:G:C4'	16:AQ:79:MET:HE2	1.85	1.03
1:AA:546:G:O3'	1:AA:548:G:O2'	1.67	1.03
1:AA:559:A:C8	12:AL:36:THR:CG2	2.41	1.03
1:AA:988:G:C6	1:AA:1015:A:N3	2.27	1.03
1:AA:1303:C:N4	13:AM:40:ARG:HH21	1.55	1.03
1:AA:1309:G:H4'	13:AM:91:ASP:CB	1.89	1.03
1:AA:1330:U:C2	13:AM:93:THR:O	2.12	1.03
3:AB:47:ILE:HD13	3:AB:161:CYS:HA	1.36	1.03
4:AC:137:VAL:HB	4:AC:149:MET:HG2	1.40	1.03
12:AL:76:LEU:HD21	12:AL:83:VAL:HG22	1.38	1.03
18:B3:402:U:C4'	31:BL:69:ASN:HD21	1.45	1.03
18:B3:679:G:OP1	23:BD:258:ASP:OD2	1.74	1.03
18:B3:1167:G:O2'	30:BK:111:GLU:HA	1.59	1.03
18:B3:1315:G:H21	42:B0:107:VAL:CG1	1.71	1.03
18:B3:1885:A:O2'	47:B9:19:SER:CB	2.07	1.03
18:B3:2578:G:O3'	18:B3:2680:A:H5'	1.58	1.03
19:B4:51:A:N3	24:BE:58:LYS:CG	2.10	1.03
19:B4:69:U:O2'	24:BE:14:SER:HB3	1.58	1.03
22:BC:357:TRP:HB3	38:BS:15:PRO:HB3	1.36	1.03
23:BD:11:THR:HG21	23:BD:13:GLU:HG2	1.41	1.03
25:BF:152:PHE:HB3	25:BF:200:PHE:HB2	1.40	1.03
29:BJ:25:SER:HB2	29:BJ:65:ALA:HB2	1.39	1.03
41:BV:82:PRO:HD3	41:BV:120:VAL:HG13	1.38	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:96:ILE:HD13	42:B0:109:LEU:HD12	1.41	1.03
1:AA:335:C:O3'	1:AA:1433:A:O3'	1.69	1.02
1:AA:1303:C:C4	13:AM:40:ARG:NH2	2.27	1.02
1:AA:1318:A:H8	17:AS:54:ALA:CB	1.66	1.02
1:AA:1499:A:OP1	1:AA:1521:G:H5"	1.25	1.02
5:AD:99:LEU:HD12	5:AD:106:GLU:HB2	1.41	1.02
7:AG:202:LYS:HA	7:AG:205:SER:HB3	1.39	1.02
18:B3:676:C:O3'	23:BD:233:ASN:HA	0.93	1.02
18:B3:678:G:O3'	23:BD:258:ASP:CG	1.96	1.02
18:B3:819:A:O4'	47:B9:13:TYR:OH	1.75	1.02
18:B3:951:A:H5"	36:BQ:43:LYS:HD2	1.36	1.02
18:B3:1055:G:C2	28:BI:108:ALA:CB	2.41	1.02
18:B3:1167:G:H1'	30:BK:107:ASP:O	1.57	1.02
18:B3:1343:C:H2'	23:BD:188:ALA:CB	1.89	1.02
18:B3:1370:G:H5'	33:BN:63:ASN:CA	1.88	1.02
18:B3:1448:A:O3'	39:BT:110:ASN:CG	1.96	1.02
18:B3:1772:C:H5'	47:B9:15:VAL:HG12	1.04	1.02
18:B3:1875:A:C3'	21:BB:150:PRO:CB	2.37	1.02
18:B3:2081:A:C2'	32:BM:69:PRO:HG3	1.87	1.02
18:B3:2087:C:H5'	33:BN:78:THR:HG21	1.41	1.02
19:B4:10:C:N4	36:BQ:26:HIS:HE2	1.56	1.02
19:B4:48:C:C2'	24:BE:158:ARG:HG3	1.89	1.02
19:B4:69:U:C4'	24:BE:14:SER:CB	2.36	1.02
19:B4:69:U:H4'	24:BE:14:SER:CB	1.88	1.02
19:B4:119:C:N1	24:BE:71:GLY:O	1.90	1.02
22:BC:261:TRP:HB2	22:BC:263:VAL:HG22	1.36	1.02
23:BD:205:LEU:HG	23:BD:206:VAL:HG23	1.41	1.02
26:BG:115:VAL:HG13	26:BG:117:GLU:H	1.20	1.02
1:AA:363:A:OP1	12:AL:76:LEU:C	0.83	1.02
1:AA:560:U:H1'	1:AA:563:A:O4'	0.86	1.02
1:AA:751:U:O2'	15:AO:83:ILE:HD11	1.59	1.02
1:AA:920:U:H5'	1:AA:1080:A:C5	1.94	1.02
1:AA:1177:G:C8	9:AI:106:LYS:CG	2.34	1.02
1:AA:1308:U:OP1	13:AM:145:ARG:CD	2.05	1.02
4:AC:104:MET:HG3	4:AC:121:VAL:HG11	1.42	1.02
10:AJ:71:PRO:CG	14:AN:36:ASN:HB2	1.88	1.02
18:B3:26:U:O2'	18:B3:1320:U:H6	1.40	1.02
18:B3:67:A:C5'	44:BX:55:LEU:CD2	2.35	1.02
18:B3:79:G:H4'	40:BU:27:ARG:NH1	1.74	1.02
18:B3:402:U:C4'	31:BL:69:ASN:CG	2.17	1.02
18:B3:448:G:N2	23:BD:47:GLN:CD	2.11	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:709:G:H5"	34:BO:43:PRO:HB2	1.41	1.02
18:B3:721:A:H5'	34:BO:72:LYS:H	1.21	1.02
18:B3:1132:A:O2'	18:B3:2521:A:H5"	1.23	1.02
18:B3:1182:U:O4'	30:BK:105:GLN:HA	1.59	1.02
18:B3:1358:A:H2'	23:BD:92:MET:SD	2.00	1.02
18:B3:1805:G:C2	18:B3:2883:A:C5	2.47	1.02
18:B3:2274:A:O2'	31:BL:79:THR:N	1.91	1.02
18:B3:2654:C:C6	22:BC:258:HIS:HB2	1.95	1.02
21:BB:56:PRO:CD	47:B9:51:ALA:HB1	1.89	1.02
22:BC:71:VAL:C	37:BR:87:ARG:HH11	1.60	1.02
27:BH:64:HIS:HB2	32:BM:127:ARG:CB	1.84	1.02
31:BL:65:VAL:HB	31:BL:66:ARG:HH12	1.19	1.02
31:BL:99:ALA:HA	31:BL:168:LYS:HE3	1.41	1.02
37:BR:30:GLY:HA3	37:BR:67:PRO:HG3	1.40	1.02
37:BR:92:PHE:CE1	38:BS:20:LEU:CD2	2.41	1.02
39:BT:63:GLU:HB2	39:BT:85:VAL:HB	1.03	1.02
46:BZ:28:LYS:HA	46:BZ:28:LYS:HE3	1.41	1.02
1:AA:25:C:OP2	12:AL:39:LYS:HE3	1.57	1.02
1:AA:319:G:O2'	1:AA:1435:G:N2	1.90	1.02
1:AA:1249:C:H2'	9:AI:72:GLY:HA2	1.37	1.02
1:AA:1297:C:H3'	13:AM:56:LYS:HA	1.06	1.02
1:AA:1318:A:C3'	17:AS:54:ALA:CB	2.25	1.02
1:AA:1330:U:OP2	13:AM:97:ASP:HB3	1.58	1.02
2:AT:144:ARG:HD3	2:AT:482:LYS:HA	1.42	1.02
10:AJ:74:GLU:O	14:AN:37:ILE:HG23	1.59	1.02
18:B3:493:U:H4'	33:BN:99:ALA:HB1	1.39	1.02
18:B3:676:C:C2'	23:BD:231:SER:C	2.25	1.02
18:B3:710:G:C5'	34:BO:44:PHE:CE2	2.42	1.02
18:B3:1134:G:H5'	18:B3:1229:C:O4'	0.87	1.02
18:B3:1355:A:O2'	18:B3:1356:A:H3'	1.60	1.02
21:BB:79:GLU:O	47:B9:65:GLY:N	1.92	1.02
24:BE:64:ILE:HG12	24:BE:109:THR:HG21	1.41	1.02
27:BH:41:ILE:HG21	32:BM:128:LEU:CD1	1.88	1.02
28:BI:49:CYS:HB2	28:BI:168:SER:HA	1.41	1.02
29:BJ:53:VAL:HB	29:BJ:56:PHE:HB2	1.37	1.02
29:BJ:70:VAL:HB	29:BJ:71:ARG:HH11	1.21	1.02
35:BP:100:VAL:HG23	35:BP:101:LEU:HD22	1.35	1.02
1:AA:5:U:O4	6:AE:172:PRO:HB2	1.59	1.02
1:AA:359:U:C5'	2:AT:391:LYS:C	2.27	1.02
1:AA:518:C:H1'	12:AL:66:SER:O	1.59	1.02
1:AA:1300:G:H3'	13:AM:30:TYR:CE1	1.94	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:29:C:H4'	18:B3:1342:C:P	1.97	1.02
18:B3:68:U:C4'	44:BX:55:LEU:CB	2.38	1.02
18:B3:289:G:H22	18:B3:363:A:H2	1.08	1.02
18:B3:538:C:N1	42:B0:21:HIS:ND1	2.05	1.02
18:B3:672:G:C5'	23:BD:214:ILE:CG2	2.36	1.02
18:B3:1153:C:O5'	18:B3:1155:G:C8	2.11	1.02
18:B3:1163:G:C4'	30:BK:54:LYS:HB2	1.88	1.02
18:B3:1676:G:H5"	39:BT:115:PRO:HG3	1.27	1.02
18:B3:1733:A:O4'	22:BC:225:PHE:CD1	2.13	1.02
18:B3:2037:C:C3'	37:BR:47:ASN:ND2	2.07	1.02
18:B3:2050:G:C8	33:BN:82:TRP:HZ3	1.48	1.02
18:B3:2424:U:H4'	36:BQ:7:TYR:H	1.20	1.02
18:B3:2579:G:O3'	18:B3:2680:A:C5	2.12	1.02
18:B3:2654:C:C5	22:BC:258:HIS:HB2	1.95	1.02
18:B3:2705:U:C4'	27:BH:122:LYS:HZ3	1.62	1.02
18:B3:2830:U:C5	22:BC:125:LYS:NZ	2.27	1.02
19:B4:29:C:H41	24:BE:57:ASN:CB	1.71	1.02
22:BC:52:MET:HE2	22:BC:53:THR:H	1.24	1.02
22:BC:70:GLU:CB	37:BR:88:ARG:CG	2.25	1.02
35:BP:101:LEU:HD12	35:BP:137:LEU:HD12	1.42	1.02
41:BV:95:LYS:HG2	41:BV:122:VAL:HG12	1.39	1.02
1:AA:14:U:H5"	1:AA:915:A:OP2	1.58	1.02
1:AA:25:C:H4'	12:AL:109:ARG:NH1	1.74	1.02
1:AA:131:C:C6	16:AQ:128:ARG:CG	2.33	1.02
1:AA:190(D):U:O2'	16:AQ:109:HIS:HB3	1.59	1.02
1:AA:232:G:N2	16:AQ:129:PRO:HG2	1.74	1.02
1:AA:292:G:C2'	1:AA:609:A:C5	2.42	1.02
1:AA:402:G:H1'	1:AA:620:C:C5	1.94	1.02
1:AA:546:G:H5'	1:AA:549:C:C5'	1.90	1.02
1:AA:1330:U:H1'	13:AM:93:THR:CA	1.90	1.02
2:AT:140:GLU:N	2:AT:481:MET:HG2	1.73	1.02
10:AJ:70:THR:HB	14:AN:41:CYS:N	1.75	1.02
18:B3:175:G:C2'	31:BL:194:ASN:OD1	2.08	1.02
18:B3:448:G:H2'	23:BD:195:ASN:HD21	0.88	1.02
18:B3:616:U:C2'	42:B0:47:ARG:CG	1.92	1.02
18:B3:1184:A:H1'	30:BK:86:LYS:HG3	1.41	1.02
18:B3:1401:G:H5'	43:BW:59:TRP:HB3	1.42	1.02
18:B3:2546:U:H3'	22:BC:235:LYS:HG3	1.40	1.02
18:B3:2738:G:P	35:BP:60:SER:OG	2.15	1.02
18:B3:2763:G:O5'	37:BR:14:SER:CB	2.07	1.02
18:B3:2845:G:H5"	22:BC:24:ILE:HG22	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:32:G:N2	24:BE:95:TRP:CH2	2.28	1.02
21:BB:118:LYS:HE2	21:BB:118:LYS:HA	1.36	1.02
22:BC:90:GLY:HA3	22:BC:101:LEU:HD12	1.42	1.02
23:BD:245:ARG:HD3	23:BD:246:PHE:H	1.23	1.02
31:BL:163:LEU:HD13	31:BL:164:THR:HG22	1.41	1.02
33:BN:123:LYS:HA	33:BN:142:PRO:HD2	1.37	1.02
41:BV:110:LYS:H	41:BV:110:LYS:HE2	1.25	1.02
1:AA:546:G:C5'	1:AA:549:C:H5'	1.89	1.01
1:AA:555:C:OP2	12:AL:38:PHE:CD2	2.14	1.01
1:AA:1223:C:OP2	17:AS:98:ASN:O	1.69	1.01
1:AA:1241:G:N7	7:AG:187:LYS:HD3	1.75	1.01
1:AA:1330:U:H1'	13:AM:93:THR:HA	1.38	1.01
7:AG:139:THR:HG21	7:AG:174:LEU:HD21	1.42	1.01
9:AI:58:LYS:HA	9:AI:61:ASN:HD21	1.25	1.01
18:B3:27:U:C2	18:B3:1318:A:C2	2.47	1.01
18:B3:72:C:H5"	44:BX:49:LYS:HE3	1.38	1.01
18:B3:538:C:N1	42:B0:21:HIS:CE1	2.27	1.01
18:B3:897:A:OP2	41:BV:26:LYS:CG	2.06	1.01
18:B3:906:C:C1'	18:B3:1329:A:H8	1.64	1.01
18:B3:919:U:H2'	41:BV:39:HIS:O	1.55	1.01
18:B3:1002:G:O3'	28:BI:90:ARG:CZ	2.08	1.01
18:B3:1163:G:N1	30:BK:51:LYS:HE2	1.74	1.01
18:B3:1167:G:N3	30:BK:110:ILE:HB	1.66	1.01
18:B3:1309:U:O3'	23:BD:203:GLY:HA3	1.57	1.01
18:B3:1311:G:C6	23:BD:185:LYS:HB3	1.93	1.01
18:B3:1676:G:C5'	39:BT:115:PRO:HD3	1.66	1.01
18:B3:2100:A:O4'	23:BD:68:ARG:NH1	1.93	1.01
18:B3:2123:A:O5'	31:BL:88:VAL:CG2	2.07	1.01
18:B3:2526:C:O2'	18:B3:2605:G:OP1	1.76	1.01
18:B3:2561:C:H5'	18:B3:2777:G:O2'	1.60	1.01
18:B3:2763:G:C4'	37:BR:14:SER:HB2	1.90	1.01
18:B3:2848:G:P	22:BC:173:LYS:HE2	2.00	1.01
19:B4:68:G:N2	24:BE:11:ALA:HB3	1.74	1.01
19:B4:85:A:C4'	25:BF:131:PRO:CB	2.33	1.01
21:BB:47:ILE:HG13	47:B9:53:ILE:HG12	1.38	1.01
26:BG:112:ALA:HB3	26:BG:115:VAL:HG12	1.40	1.01
29:BJ:16:LEU:HD13	29:BJ:70:VAL:HG11	1.41	1.01
1:AA:12:U:O4'	1:AA:526:C:H5'	1.58	1.01
1:AA:35:G:H4'	12:AL:128:SER:HA	1.42	1.01
1:AA:111:G:N3	1:AA:389:A:H5'	1.74	1.01
1:AA:920:U:O3'	1:AA:1081:G:H4'	1.61	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:925:G:C5'	1:AA:1399:C:OP2	2.07	1.01
1:AA:949:A:H3'	13:AM:141:THR:OG1	1.59	1.01
1:AA:1329:A:H5'	13:AM:98:TYR:CE2	1.94	1.01
1:AA:1495:U:O2'	18:B3:1962:G:P	2.17	1.01
9:AI:66:VAL:HG21	9:AI:80:ILE:HD12	1.40	1.01
10:AJ:78:THR:HB	14:AN:40:GLN:OE1	1.60	1.01
18:B3:67:A:C4'	44:BX:55:LEU:HD22	1.90	1.01
18:B3:99:A:H1'	40:BU:75:ARG:CZ	1.88	1.01
18:B3:120:A:O2'	45:BY:17:LEU:CD1	2.09	1.01
18:B3:270:U:OP1	18:B3:273:G:H1'	1.60	1.01
18:B3:710:G:OP1	34:BO:43:PRO:HD2	1.60	1.01
18:B3:1689:A:C2	33:BN:128:THR:CB	2.41	1.01
18:B3:2166:G:N7	20:BA:61:PRO:CD	2.24	1.01
18:B3:2668:G:H4'	22:BC:128:ALA:HB1	1.37	1.01
18:B3:2709:G:H4'	37:BR:125:LEU:HD21	1.40	1.01
18:B3:2848:G:OP2	22:BC:173:LYS:HD2	1.60	1.01
21:BB:3:VAL:HG13	21:BB:7:GLN:HG3	1.42	1.01
22:BC:88:VAL:HG12	22:BC:104:VAL:HG11	1.38	1.01
22:BC:92:VAL:HG22	22:BC:154:ALA:HA	1.04	1.01
22:BC:357:TRP:HB3	38:BS:15:PRO:CB	1.87	1.01
23:BD:180:VAL:HG22	23:BD:205:LEU:HD13	1.38	1.01
24:BE:65:ILE:HB	24:BE:74:VAL:HA	1.39	1.01
28:BI:29:SER:HB3	28:BI:31:ILE:HG22	1.42	1.01
29:BJ:87:GLU:HG3	29:BJ:122:PHE:HZ	1.25	1.01
35:BP:34:ALA:HB1	35:BP:40:ILE:HD11	1.05	1.01
41:BV:81:ILE:HG21	41:BV:95:LYS:HD2	1.40	1.01
1:AA:28:G:O2'	1:AA:296:U:OP1	1.78	1.01
1:AA:62:U:H4'	1:AA:386:C:C6	1.96	1.01
1:AA:560:U:N3	1:AA:565:U:C5	2.14	1.01
1:AA:622:A:H5'	5:AD:78:ARG:HG2	1.08	1.01
1:AA:924:C:O2'	1:AA:1398:A:H2'	1.59	1.01
1:AA:1071:C:OP2	6:AE:90:ARG:HG2	0.84	1.01
1:AA:1106:G:H5"	4:AC:155:PHE:CE2	1.95	1.01
1:AA:1224:G:H4'	13:AM:139:LYS:HB2	1.42	1.01
1:AA:1303:C:N4	13:AM:40:ARG:NH2	2.09	1.01
1:AA:1330:U:O2'	13:AM:93:THR:HG22	1.58	1.01
18:B3:449:A:OP2	18:B3:1306:U:C1'	2.09	1.01
18:B3:677:C:P	23:BD:232:LEU:O	2.17	1.01
18:B3:698:A:OP1	41:BV:132:LEU:HG	0.86	1.01
18:B3:1165:U:N1	30:BK:44:GLU:OE1	1.94	1.01
18:B3:1359:U:H5"	23:BD:91:ASN:CB	1.83	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1402:G:P	43:BW:62:GLY:CA	2.49	1.01
18:B3:1800:G:O4'	35:BP:88:LEU:HB3	1.58	1.01
18:B3:1815:A:OP1	18:B3:2751:C:C1'	2.09	1.01
18:B3:2100:A:OP2	23:BD:68:ARG:NH2	1.90	1.01
18:B3:2345:A:H5"	29:BJ:48:LYS:HD2	1.03	1.01
18:B3:2669:U:O2	22:BC:131:LYS:CD	2.09	1.01
19:B4:46:C:C2'	24:BE:152:ARG:HG3	1.56	1.01
19:B4:85:A:H5'	25:BF:131:PRO:HB2	1.04	1.01
22:BC:48:TYR:CE2	22:BC:49:LYS:HB3	1.95	1.01
23:BD:144:ILE:HG23	23:BD:145:PRO:HD3	1.40	1.01
1:AA:131:C:H1'	1:AA:264:U:C2	1.96	1.01
1:AA:551:U:O2'	12:AL:105:ALA:HB1	1.61	1.01
1:AA:754:C:C4'	15:AO:127:TYR:CD1	2.44	1.01
1:AA:877:C:O2	8:AH:3:SER:OG	1.75	1.01
1:AA:1321:C:H1'	17:AS:120:SER:H	1.22	1.01
3:AB:48:ASN:HD21	3:AB:51:LYS:HD2	1.23	1.01
7:AG:105:LYS:HB3	7:AG:108:LYS:HD3	1.41	1.01
8:AH:99:GLY:HA3	8:AH:129:TYR:HB3	1.42	1.01
18:B3:764:C:O4'	23:BD:86:GLN:CB	2.00	1.01
18:B3:782:G:C4'	21:BB:189:ARG:HH12	1.73	1.01
18:B3:882:A:H5'	45:BY:1:GLY:C	1.81	1.01
18:B3:1168:C:H6	30:BK:114:ARG:NH1	1.40	1.01
18:B3:2136:G:N2	18:B3:2238:A:C4	2.29	1.01
18:B3:2215:A:H5"	20:BA:64:SER:HB3	1.43	1.01
18:B3:2705:U:H5"	27:BH:122:LYS:HE3	1.34	1.01
18:B3:2819:C:C2'	22:BC:101:LEU:H	1.74	1.01
19:B4:47:A:H4'	24:BE:160:PHE:CE2	1.95	1.01
19:B4:49:G:N3	24:BE:93:THR:O	1.94	1.01
27:BH:42:ASP:CG	32:BM:124:ARG:HA	1.81	1.01
31:BL:183:LYS:HA	31:BL:183:LYS:HE2	1.42	1.01
36:BQ:45:ASN:HD21	36:BQ:94:GLU:HG2	1.25	1.01
41:BV:74:LEU:HG	41:BV:117:ILE:HG13	1.43	1.01
42:B0:66:LEU:HD21	42:B0:70:GLY:HA2	1.42	1.01
1:AA:12:U:H5'	1:AA:526:C:O4'	1.61	1.01
1:AA:25:C:H4'	12:AL:109:ARG:CD	1.90	1.01
1:AA:232:G:H22	16:AQ:129:PRO:HG2	1.21	1.01
1:AA:860:A:O2'	8:AH:18:LYS:CE	2.09	1.01
1:AA:1180:A:OP1	9:AI:114:THR:HG21	1.61	1.01
1:AA:1301:U:O2'	13:AM:54:LEU:HB3	1.61	1.01
1:AA:1316:G:N1	17:AS:49:MET:HE2	1.74	1.01
4:AC:39:ARG:NE	10:AJ:110:PRO:HB3	1.74	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:27:U:C2	18:B3:1319:G:N3	2.29	1.01
18:B3:664:U:H5'	23:BD:114:HIS:HB3	1.01	1.01
18:B3:760:G:N2	23:BD:101:PRO:HB3	1.76	1.01
18:B3:1074:G:OP1	42:B0:45:ARG:HG2	1.59	1.01
18:B3:1118:A:C5	18:B3:1226:G:H3'	1.95	1.01
18:B3:1745:G:OP1	37:BR:22:ILE:HB	1.57	1.01
18:B3:1806:G:N2	18:B3:2884:G:C8	2.29	1.01
18:B3:2048:C:H5"	33:BN:68:ARG:HD2	1.40	1.01
18:B3:2049:C:OP1	33:BN:81:ARG:HA	1.61	1.01
18:B3:2660:G:P	33:BN:71:GLN:HE22	1.84	1.01
22:BC:85:VAL:HG12	22:BC:161:VAL:HG12	1.42	1.01
36:BQ:42:ILE:HD13	36:BQ:91:LEU:HD22	1.40	1.01
47:B9:41:CYS:HB2	47:B9:43:LYS:HD3	1.40	1.01
1:AA:6:G:O4'	1:AA:298:A:O2'	1.76	1.00
1:AA:131:C:O3'	1:AA:264:U:C5'	2.08	1.00
1:AA:190(E):U:C5'	16:AQ:130:ILE:CD1	2.38	1.00
1:AA:634:C:C2'	16:AQ:92:TYR:OH	2.08	1.00
1:AA:988:G:C4	1:AA:1015:A:C8	2.49	1.00
1:AA:1148:U:H5'	9:AI:9:PHE:CZ	1.87	1.00
1:AA:1221:G:C8	17:AS:79:HIS:HA	1.96	1.00
1:AA:1329:A:H5"	13:AM:98:TYR:CD2	1.91	1.00
1:AA:1345:U:C2	7:AG:76:TYR:CE1	2.42	1.00
6:AE:219:ASN:N	8:AH:129:TYR:HD2	1.52	1.00
18:B3:100:C:H1'	40:BU:24:SER:OG	1.51	1.00
18:B3:539:G:C4	42:B0:50:ILE:CD1	2.40	1.00
18:B3:676:C:O2	23:BD:231:SER:CA	2.09	1.00
18:B3:906:C:N3	18:B3:1329:A:C4	2.29	1.00
18:B3:906:C:H1'	18:B3:1329:A:H8	1.07	1.00
18:B3:1055:G:N2	28:BI:108:ALA:CB	2.24	1.00
18:B3:1118:A:H4'	18:B3:1228:C:C5	1.97	1.00
18:B3:1343:C:C2'	23:BD:188:ALA:CA	2.26	1.00
18:B3:1348:A:H5'	23:BD:241:ALA:HB3	1.06	1.00
18:B3:1786:C:N3	18:B3:2883:A:H4'	1.65	1.00
18:B3:1876:C:C2'	21:BB:131:ASN:ND2	2.20	1.00
18:B3:2101:A:C8	23:BD:71:ALA:CA	2.44	1.00
18:B3:2295:G:C4'	36:BQ:5:HIS:O	2.08	1.00
19:B4:51:A:C2	24:BE:58:LYS:HB3	1.89	1.00
20:BA:57:ASN:ND2	20:BA:155:ILE:HD11	1.75	1.00
21:BB:31:LEU:HD22	21:BB:36:ARG:HG2	1.43	1.00
27:BH:102:ASN:H	27:BH:113:GLU:HB3	1.22	1.00
31:BL:118:TYR:HA	31:BL:129:PHE:CE1	1.96	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BS:47:ARG:HB2	38:BS:54:LEU:HD22	1.41	1.00
39:BT:95:LYS:HD2	39:BT:106:VAL:HG23	1.42	1.00
1:AA:925:G:H5'	1:AA:1399:C:P	2.00	1.00
1:AA:989:C:C1'	1:AA:1015:A:C8	2.43	1.00
9:AI:98:GLU:HA	9:AI:105:LYS:HB3	1.41	1.00
13:AM:129:TRP:CH2	17:AS:121:ILE:CD1	2.43	1.00
18:B3:79:G:O4'	40:BU:27:ARG:NH1	1.89	1.00
18:B3:107:U:C6	44:BX:60:GLU:HA	1.96	1.00
18:B3:155:C:OP2	31:BL:190:TRP:CD2	2.15	1.00
18:B3:798:G:H5'	47:B9:9:ILE:CD1	1.90	1.00
18:B3:1118:A:C4'	18:B3:1228:C:H5	1.74	1.00
18:B3:1227:C:O4'	32:BM:132:ARG:CZ	2.09	1.00
18:B3:1310:U:H5	23:BD:202:ARG:C	1.63	1.00
18:B3:1352:A:C5'	23:BD:102:THR:HG23	1.67	1.00
18:B3:1689:A:C5	33:BN:128:THR:HG23	1.94	1.00
18:B3:1830:C:H42	21:BB:180:LYS:CD	1.74	1.00
18:B3:2135:A:C2	18:B3:2240:U:C4	2.48	1.00
18:B3:2283:G:N7	28:BI:106:ALA:HB3	1.75	1.00
18:B3:2347:C:O5'	29:BJ:46:GLN:HB3	1.19	1.00
18:B3:2712:G:H5'	37:BR:42:SER:HB3	1.21	1.00
18:B3:2826:G:N3	22:BC:124:SER:HB3	1.72	1.00
22:BC:71:VAL:HG12	37:BR:88:ARG:N	1.76	1.00
22:BC:296:SER:HB2	22:BC:300:THR:HG21	1.41	1.00
23:BD:165:VAL:HA	23:BD:168:LEU:HD21	1.42	1.00
25:BF:89:LYS:HA	25:BF:89:LYS:HE3	1.42	1.00
27:BH:101:VAL:HG13	27:BH:113:GLU:HG3	1.41	1.00
31:BL:50:LEU:HD22	31:BL:117:SER:HA	1.42	1.00
35:BP:11:ALA:HB3	35:BP:18:LYS:HZ1	1.24	1.00
42:B0:105:ARG:HH22	42:B0:108:ILE:HG23	1.24	1.00
1:AA:55:A:H2	2:AT:68:ILE:N	1.59	1.00
1:AA:190(D):U:H3	16:AQ:112:PRO:CD	1.73	1.00
1:AA:778:G:C4	11:AK:132:ARG:HG2	1.96	1.00
1:AA:987:G:C2	1:AA:1014:A:H1'	1.95	1.00
1:AA:1177:G:H5"	9:AI:105:LYS:CD	1.90	1.00
1:AA:1299:A:H4'	13:AM:26:ILE:CG1	1.91	1.00
1:AA:1319:A:H8	17:AS:49:MET:CE	1.53	1.00
1:AA:1419:G:H21	18:B3:1990:C:H5"	1.24	1.00
3:AB:92:THR:HG22	3:AB:181:LEU:HD21	1.42	1.00
4:AC:107:LYS:HB3	4:AC:112:LEU:HD12	1.37	1.00
18:B3:68:U:H2'	44:BX:55:LEU:HB3	1.04	1.00
18:B3:99:A:H1'	40:BU:75:ARG:NH1	1.76	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:618:G:H2'	42:B0:41:VAL:CG2	1.91	1.00
18:B3:1164:U:OP2	30:BK:20:GLY:HA2	1.59	1.00
18:B3:1165:U:C6	30:BK:44:GLU:OE1	2.13	1.00
18:B3:1689:A:N3	33:BN:128:THR:HG23	1.59	1.00
18:B3:1875:A:H3'	21:BB:150:PRO:CB	1.90	1.00
18:B3:2662:G:O2'	18:B3:2814:A:H2	1.44	1.00
18:B3:2739:A:OP1	35:BP:61:ARG:NH2	1.94	1.00
18:B3:2826:G:C2'	22:BC:123:LYS:C	2.18	1.00
22:BC:310:PHE:CD2	22:BC:311:VAL:HG23	1.97	1.00
24:BE:106:ALA:HB2	24:BE:166:ALA:HA	1.43	1.00
27:BH:43:VAL:HG12	32:BM:127:ARG:CD	1.90	1.00
27:BH:64:HIS:HB2	32:BM:127:ARG:HB2	1.42	1.00
43:BW:22:VAL:HG11	43:BW:25:LYS:HG2	1.43	1.00
1:AA:66:G:H5"	1:AA:173:U:C2	1.97	1.00
1:AA:143:A:OP2	1:AA:201:C:C6	2.15	1.00
1:AA:546:G:H4'	1:AA:548:G:O2'	1.62	1.00
1:AA:1300:G:H4'	13:AM:30:TYR:CD1	1.94	1.00
1:AA:1329:A:C5'	13:AM:98:TYR:CE1	2.21	1.00
1:AA:1331:G:N7	13:AM:41:ARG:HB3	1.72	1.00
18:B3:69:A:H5"	44:BX:52:ALA:HB1	1.42	1.00
18:B3:1099:G:C3'	19:B4:87:U:H3	1.73	1.00
18:B3:2093:G:O2'	22:BC:253:ALA:HB3	1.57	1.00
18:B3:2424:U:C5'	36:BQ:7:TYR:CD2	2.44	1.00
18:B3:2526:C:C4'	18:B3:2605:G:H5"	1.66	1.00
20:BA:54:LYS:HG2	20:BA:156:LYS:HD2	1.43	1.00
21:BB:171:GLY:HA3	47:B9:67:ALA:HB3	1.44	1.00
40:BU:70:ILE:HD11	40:BU:80:VAL:HG11	1.39	1.00
46:BZ:67:VAL:HG12	46:BZ:69:LEU:HD22	1.42	1.00
1:AA:25:C:C4'	12:AL:109:ARG:NH1	2.24	1.00
1:AA:117:G:N2	1:AA:122:G:O2'	1.94	1.00
1:AA:562:C:O2	12:AL:32:ARG:HD2	1.61	1.00
1:AA:713:G:N2	11:AK:124:SER:C	2.15	1.00
1:AA:1290:G:H5"	7:AG:108:LYS:HE3	1.43	1.00
1:AA:1501:C:C5'	1:AA:1508:G:O2'	2.10	1.00
10:AJ:73:GLY:O	14:AN:25:SER:HB3	1.59	1.00
18:B3:472:A:O3'	45:BY:48:TRP:CZ2	2.15	1.00
18:B3:517:U:H2'	18:B3:1319:G:H22	1.24	1.00
18:B3:693:A:H5'	41:BV:59:TYR:CD1	1.95	1.00
18:B3:882:A:H1'	45:BY:2:LYS:CG	1.85	1.00
18:B3:1164:U:H5'	30:BK:47:ALA:O	1.58	1.00
23:BD:112:VAL:HG21	23:BD:117:LYS:HE2	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:16:PHE:CB	36:BQ:19:PHE:HZ	1.75	1.00
24:BE:75:LEU:HD12	24:BE:113:LEU:HD21	1.44	1.00
35:BP:22:TRP:CD1	35:BP:49:ILE:HA	1.95	1.00
47:B9:23:ARG:HB3	47:B9:27:LYS:HG3	1.43	1.00
1:AA:545:C:C4'	5:AD:66:ASP:OD2	2.08	1.00
1:AA:1343:G:O4'	9:AI:138:GLN:CA	2.09	1.00
2:AT:536:LEU:HD13	18:B3:2698:G:O2'	1.61	1.00
2:AT:749:LYS:HE2	18:B3:2508:C:H5	1.20	1.00
4:AC:102:GLU:HA	4:AC:172:ARG:HG2	1.44	1.00
6:AE:170:PRO:CD	8:AH:96:ARG:HB2	1.91	1.00
18:B3:81:G:O2'	40:BU:75:ARG:CG	2.10	1.00
18:B3:265:U:C5'	31:BL:55:LYS:HZ1	1.68	1.00
18:B3:1232:A:H8	18:B3:2525:G:H5'	1.19	1.00
18:B3:1287:A:C2	25:BF:106:ARG:CD	2.44	1.00
18:B3:1304:U:H5"	23:BD:193:TYR:CZ	1.96	1.00
18:B3:1745:G:H5"	37:BR:22:ILE:HD11	1.40	1.00
18:B3:2347:C:C1'	29:BJ:66:VAL:CG1	2.37	1.00
18:B3:2737:C:OP1	35:BP:62:THR:CG2	2.10	1.00
19:B4:7:G:OP2	24:BE:28:THR:HB	1.61	1.00
39:BT:75:VAL:HG13	39:BT:81:LEU:HD13	1.41	1.00
2:AT:108:HIS:CG	2:AT:540:ILE:HG13	1.97	1.00
10:AJ:74:GLU:CG	14:AN:37:ILE:CD1	2.27	1.00
18:B3:27:U:H3'	18:B3:1319:G:O4'	1.57	1.00
18:B3:93:C:H5'	44:BX:42:PRO:CB	1.91	1.00
18:B3:762:C:N4	41:BV:23:LYS:HE3	1.77	1.00
18:B3:1163:G:O6	30:BK:51:LYS:HE2	1.58	1.00
18:B3:1675:C:H5'	39:BT:87:MET:HE2	1.43	1.00
18:B3:1788:U:H3'	18:B3:2881:C:H2'	1.03	1.00
18:B3:1806:G:H21	18:B3:2884:G:H8	1.08	1.00
18:B3:2460:A:OP1	46:BZ:62:LYS:HG3	1.62	1.00
18:B3:2705:U:C5'	27:BH:122:LYS:NZ	2.14	1.00
22:BC:42:LEU:HA	22:BC:180:ILE:HD13	1.39	1.00
22:BC:146:GLU:HG3	22:BC:147:LEU:HD12	1.39	1.00
27:BH:107:ASP:HA	27:BH:112:ILE:HG12	1.44	1.00
30:BK:37:LEU:HB2	30:BK:64:ILE:HD11	1.43	1.00
1:AA:144:G:C5	1:AA:199:G:C5'	2.31	0.99
1:AA:319:G:HO2'	1:AA:1435:G:N2	1.58	0.99
1:AA:553:A:N3	12:AL:46:SER:CA	2.24	0.99
1:AA:621:A:O3'	5:AD:78:ARG:HD3	1.59	0.99
1:AA:779:C:C5'	11:AK:132:ARG:CB	2.37	0.99
1:AA:1306:A:H2'	13:AM:144:ARG:NH2	1.74	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:93:C:H5'	44:BX:42:PRO:C	1.82	0.99
18:B3:796:A:O4'	47:B9:12:LYS:HB3	1.28	0.99
18:B3:1055:G:OP2	28:BI:110:ARG:CB	2.09	0.99
18:B3:1164:U:C4	30:BK:51:LYS:CG	2.44	0.99
18:B3:1309:U:H6	23:BD:204:PRO:HD3	1.03	0.99
18:B3:2738:G:P	35:BP:58:SER:O	2.20	0.99
19:B4:36:C:C5'	24:BE:181:PRO:O	1.98	0.99
21:BB:179:LEU:HD22	47:B9:21:LEU:HD13	1.40	0.99
1:AA:24:U:H3'	12:AL:39:LYS:HE3	1.43	0.99
1:AA:321:A:H5"	1:AA:1437:C:H5'	1.02	0.99
1:AA:987:G:C4	17:AS:77:ARG:HD3	1.97	0.99
13:AM:23:ASP:HB2	13:AM:31:ALA:HB1	1.39	0.99
13:AM:129:TRP:CZ3	17:AS:121:ILE:CG1	2.46	0.99
18:B3:91:G:H2'	44:BX:41:LEU:HB3	1.41	0.99
18:B3:677:C:O3'	23:BD:256:LYS:CG	2.08	0.99
18:B3:782:G:C5'	21:BB:189:ARG:HH12	1.74	0.99
18:B3:841:A:C8	33:BN:131:ALA:HB3	1.93	0.99
18:B3:1096:U:O3'	25:BF:213:TRP:CZ3	2.15	0.99
18:B3:1853:C:C5'	21:BB:238:ALA:O	2.10	0.99
18:B3:1874:U:OP1	21:BB:127:ARG:HG2	1.61	0.99
18:B3:2560:C:O4'	18:B3:2776:A:C2	2.14	0.99
19:B4:50:G:N2	24:BE:57:ASN:OD1	1.95	0.99
28:BI:51:HIS:HB2	28:BI:52:LEU:HD13	1.44	0.99
31:BL:67:ARG:HG2	31:BL:125:THR:HA	1.44	0.99
1:AA:64:G:H4'	1:AA:65:U:O5'	1.62	0.99
3:AB:139:ASN:ND2	8:AH:68:LEU:HG	1.78	0.99
10:AJ:72:ASN:O	14:AN:20:CYS:HB2	1.62	0.99
18:B3:107:U:O2'	44:BX:56:THR:HG22	1.63	0.99
18:B3:145:A:H5'	31:BL:137:GLN:NE2	1.77	0.99
18:B3:194:A:O3'	31:BL:178:LYS:HB2	1.17	0.99
18:B3:215:A:C5'	41:BV:58:ARG:NE	2.15	0.99
18:B3:698:A:H5"	41:BV:114:LYS:HB3	1.39	0.99
18:B3:778:C:H5"	45:BY:9:LYS:HZ1	1.01	0.99
18:B3:905:C:C4	18:B3:1330:A:H1'	1.95	0.99
18:B3:926:A:H1'	41:BV:45:ASP:OD2	1.61	0.99
18:B3:1206:C:O2	18:B3:1207:A:N9	1.95	0.99
22:BC:236:LYS:HA	22:BC:246:ARG:HG2	1.44	0.99
29:BJ:15:LYS:CA	29:BJ:70:VAL:HG21	1.93	0.99
31:BL:53:LYS:HD3	31:BL:55:LYS:HG2	1.41	0.99
1:AA:143:A:P	1:AA:201:C:C5	2.56	0.99
1:AA:620:C:H5'	5:AD:129:ILE:HD12	0.99	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1505:G:C8	1:AA:1506:U:C6	2.47	0.99
18:B3:68:U:C4'	44:BX:51:ILE:HD13	1.92	0.99
18:B3:1074:G:H5"	42:B0:45:ARG:HD3	1.43	0.99
18:B3:1127:C:O2'	18:B3:2492:U:H5'	1.60	0.99
18:B3:1396:C:H1'	35:BP:2:ASN:HB2	1.41	0.99
18:B3:2596:A:O2'	37:BR:74:MET:CE	2.11	0.99
18:B3:2828:G:P	22:BC:129:PHE:HB3	2.02	0.99
23:BD:221:VAL:HG22	23:BD:222:PRO:HD2	1.44	0.99
30:BK:62:LEU:HD23	30:BK:72:SER:HB3	1.44	0.99
1:AA:62:U:O2'	1:AA:385:C:C1'	2.10	0.99
1:AA:1075:C:P	3:AB:102:THR:HB	2.03	0.99
18:B3:72:C:OP1	44:BX:49:LYS:HE3	1.62	0.99
18:B3:620:A:O3'	42:B0:40:SER:HB2	1.60	0.99
18:B3:664:U:C5'	23:BD:114:HIS:CB	2.40	0.99
18:B3:677:C:C4'	23:BD:256:LYS:CE	2.08	0.99
18:B3:920:C:O2'	41:BV:40:HIS:CD2	2.04	0.99
18:B3:1090:A:C5'	42:B0:55:ILE:HD12	1.91	0.99
18:B3:1132:A:C2'	18:B3:2521:A:O4'	1.86	0.99
18:B3:1358:A:H2'	23:BD:92:MET:HG2	1.42	0.99
18:B3:1674:C:P	39:BT:121:ALA:CB	2.43	0.99
18:B3:2818:A:H4'	22:BC:99:ARG:NH1	1.77	0.99
18:B3:2822:C:H5'	22:BC:133:SER:OG	1.62	0.99
19:B4:50:G:H2'	24:BE:93:THR:H	1.26	0.99
21:BB:177:PRO:HB3	47:B9:22:ARG:HD2	1.40	0.99
28:BI:152:LEU:HA	28:BI:155:ALA:HB3	1.44	0.99
40:BU:57:LEU:HG	40:BU:105:VAL:HB	1.42	0.99
1:AA:1296:C:O2'	13:AM:54:LEU:N	1.94	0.99
1:AA:1329:A:H61	13:AM:94:ASP:CA	1.76	0.99
5:AD:86:LEU:HD12	5:AD:96:VAL:HG22	1.41	0.99
11:AK:84:ALA:H	11:AK:118:THR:HG22	1.26	0.99
13:AM:92:ILE:CG1	13:AM:123:ARG:NH2	2.26	0.99
18:B3:52:A:H5'	45:BY:20:ARG:HD2	1.43	0.99
18:B3:751:U:H4'	23:BD:36:THR:HG21	1.43	0.99
18:B3:1508:C:C5'	39:BT:78:GLY:N	2.25	0.99
18:B3:1674:C:P	39:BT:111:THR:HA	2.03	0.99
18:B3:1794:G:H4'	35:BP:96:ARG:CB	1.92	0.99
18:B3:2345:A:H1'	29:BJ:23:GLY:H	0.84	0.99
18:B3:2520:G:OP1	28:BI:160:PRO:HG3	0.83	0.99
18:B3:2837:U:C5	22:BC:333:ARG:CD	2.24	0.99
22:BC:236:LYS:HE2	22:BC:237:LEU:HD23	1.43	0.99
31:BL:113:ARG:HH21	31:BL:154:VAL:HG11	1.23	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:66:G:H5'	1:AA:173:U:O2	1.58	0.99
1:AA:187:C:OP1	1:AA:258:G:P	2.19	0.99
1:AA:357:G:P	1:AA:366:C:O5'	2.20	0.99
9:AI:89:VAL:HG23	9:AI:96:VAL:HB	1.40	0.99
18:B3:170:U:C4'	31:BL:82:LYS:HD2	1.92	0.99
18:B3:521:A:H5"	42:B0:26:HIS:CD2	1.97	0.99
18:B3:619:U:H5"	42:B0:41:VAL:CA	1.92	0.99
18:B3:664:U:H4'	23:BD:114:HIS:HB2	1.40	0.99
18:B3:772:G:H21	45:BY:48:TRP:CB	1.74	0.99
18:B3:1137:G:C6	18:B3:2785:C:C6	2.51	0.99
18:B3:1164:U:C2'	30:BK:51:LYS:CB	2.39	0.99
18:B3:1401:G:OP1	43:BW:61:ARG:N	1.88	0.99
18:B3:1566:C:P	35:BP:59:LYS:HG2	2.02	0.99
18:B3:2720:C:OP1	38:BS:33:ASN:ND2	1.96	0.99
19:B4:11:A:C4	24:BE:14:SER:CA	2.36	0.99
20:BA:55:LEU:CD2	20:BA:167:VAL:HA	1.91	0.99
21:BB:97:VAL:HG23	21:BB:165:ILE:HG21	1.41	0.99
32:BM:32:ILE:HG13	32:BM:33:VAL:H	1.26	0.99
34:BO:51:ALA:HB3	34:BO:84:VAL:HG21	1.42	0.99
1:AA:16:A:H2	1:AA:918:A:N1	1.31	0.99
1:AA:35:G:H4'	12:AL:128:SER:CB	1.92	0.99
1:AA:988:G:H1'	1:AA:1014:A:C4'	1.91	0.99
1:AA:1500:A:OP2	1:AA:1521:G:OP1	1.73	0.99
5:AD:39:LYS:HG3	5:AD:40:LYS:H	1.28	0.99
18:B3:72:C:H5'	44:BX:49:LYS:HE2	1.43	0.99
18:B3:538:C:O2'	42:B0:21:HIS:HA	1.62	0.99
18:B3:844:A:P	33:BN:130:ARG:CB	2.44	0.99
18:B3:1183:C:HO2'	30:BK:85:LEU:HA	1.28	0.99
18:B3:1334:C:H2'	42:B0:98:HIS:N	1.78	0.99
18:B3:1593:C:OP1	35:BP:116:LYS:CB	2.11	0.99
18:B3:2263:G:H5"	31:BL:70:ARG:HE	1.25	0.99
18:B3:2662:G:O2'	18:B3:2814:A:C2	2.16	0.99
20:BA:26:ARG:HG3	20:BA:210:MET:HG3	1.44	0.99
22:BC:54:THR:HG21	37:BR:91:VAL:HG22	1.43	0.99
37:BR:95:PHE:CZ	38:BS:23:ARG:CG	2.45	0.99
43:BW:22:VAL:HB	43:BW:25:LYS:HB2	1.40	0.99
1:AA:1150:U:O2'	10:AJ:58:LEU:C	2.01	0.99
1:AA:1225:A:N7	17:AS:100:LYS:HE3	1.77	0.99
5:AD:95:TYR:HB3	5:AD:193:GLU:HB3	1.45	0.99
18:B3:1565:C:O3'	35:BP:59:LYS:HG2	1.63	0.99
18:B3:1830:C:N4	21:BB:180:LYS:CD	2.26	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2461:U:O5'	46:BZ:60:LYS:HG2	1.62	0.99
18:B3:2826:G:N3	22:BC:124:SER:HB2	1.73	0.99
20:BA:29:LEU:HD22	20:BA:172:VAL:HG11	1.44	0.99
21:BB:103:LEU:HD11	21:BB:135:ILE:HD12	1.39	0.99
26:BG:119:LYS:HB2	26:BG:188:LEU:HD12	1.42	0.99
39:BT:87:MET:HA	39:BT:119:LYS:HG3	1.42	0.99
1:AA:17:U:C4	1:AA:916:G:O6	2.15	0.99
1:AA:877:C:C1'	8:AH:3:SER:HB3	1.88	0.99
1:AA:990:C:H5	1:AA:1016:A:N3	1.44	0.99
1:AA:1501:C:OP1	1:AA:1508:G:N9	1.94	0.99
5:AD:92:LYS:CA	6:AE:174:GLY:HA2	1.92	0.99
13:AM:85:PHE:HA	13:AM:100:THR:HB	1.45	0.99
18:B3:2458:U:P	46:BZ:84:LEU:H	1.86	0.99
18:B3:2652:U:C1'	22:BC:257:ALA:CB	2.40	0.99
19:B4:48:C:C2'	24:BE:158:ARG:CG	2.41	0.99
19:B4:85:A:C2'	25:BF:228:PHE:CZ	2.46	0.99
22:BC:25:ARG:HD3	22:BC:176:HIS:HB2	1.03	0.99
22:BC:359:ASP:CB	38:BS:17:ARG:H	1.69	0.99
27:BH:117:PHE:CE2	27:BH:120:ASP:HB2	1.98	0.99
1:AA:337:C:O4'	1:AA:1468:A:C2	2.16	0.98
1:AA:777:A:C5	11:AK:126:ARG:NH2	2.31	0.98
1:AA:1126:U:H1'	1:AA:1280:A:N6	1.10	0.98
1:AA:1309:G:C8	13:AM:92:ILE:HG23	1.54	0.98
2:AT:785:ARG:HE	18:B3:2697:A:N6	1.60	0.98
10:AJ:70:THR:CB	14:AN:42:PHE:N	2.25	0.98
17:AS:59:LYS:HE2	17:AS:63:ALA:HB2	1.45	0.98
18:B3:798:G:H5'	47:B9:9:ILE:HD11	0.99	0.98
18:B3:819:A:C4'	47:B9:13:TYR:OH	2.11	0.98
18:B3:1173:A:OP1	30:BK:40:LYS:HE2	1.63	0.98
18:B3:1287:A:C2	25:BF:106:ARG:HD2	1.98	0.98
18:B3:1467:C:OP1	31:BL:33:ASN:CB	2.10	0.98
18:B3:2099:G:H3'	23:BD:68:ARG:NH2	1.77	0.98
18:B3:2215:A:H5"	20:BA:64:SER:CB	1.93	0.98
18:B3:2676:C:OP1	32:BM:73:ARG:CD	2.11	0.98
19:B4:46:C:H2'	24:BE:152:ARG:HG3	1.44	0.98
24:BE:42:ALA:HA	24:BE:49:TYR:CZ	1.98	0.98
39:BT:63:GLU:HB2	39:BT:85:VAL:CB	1.93	0.98
42:B0:19:ARG:HG3	42:B0:33:ARG:HG2	1.44	0.98
1:AA:405:U:O2	5:AD:25:ASP:C	1.79	0.98
1:AA:678:U:C4'	11:AK:127:LYS:HA	1.93	0.98
8:AH:35:LYS:HG3	8:AH:109:ILE:HG12	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:75:GLY:CA	14:AN:40:GLN:HG3	1.86	0.98
13:AM:94:ASP:CG	13:AM:134:ARG:HH21	1.66	0.98
18:B3:79:G:H5'	40:BU:28:ARG:HB3	1.43	0.98
18:B3:302:A:P	40:BU:28:ARG:HH22	1.86	0.98
18:B3:501:G:C5'	33:BN:16:ALA:CA	2.28	0.98
18:B3:537:G:H3'	42:B0:41:VAL:CG1	1.93	0.98
18:B3:1652:C:O5'	21:BB:173:ARG:NH1	1.95	0.98
18:B3:1677:U:OP2	39:BT:115:PRO:HD2	1.62	0.98
18:B3:2216:A:P	20:BA:64:SER:OG	2.21	0.98
18:B3:2283:G:C6	28:BI:105:CYS:CA	2.45	0.98
18:B3:2346:C:H4'	29:BJ:64:ILE:O	1.61	0.98
18:B3:2489:G:C2'	18:B3:2490:A:C8	2.46	0.98
18:B3:2526:C:C5'	18:B3:2605:G:H4'	1.93	0.98
21:BB:171:GLY:H	47:B9:67:ALA:CB	1.76	0.98
22:BC:165:ILE:HG23	22:BC:168:THR:HG22	1.41	0.98
29:BJ:95:PHE:HB3	29:BJ:101:PHE:HB2	1.42	0.98
40:BU:100:HIS:HB3	40:BU:103:LYS:HG3	1.44	0.98
1:AA:1086:U:C5'	1:AA:1389:C:H5'	1.77	0.98
1:AA:1329:A:N6	13:AM:95:GLY:H	1.61	0.98
18:B3:1002:G:O3'	28:BI:90:ARG:NH1	1.94	0.98
18:B3:1348:A:H4'	23:BD:38:PHE:CE1	1.99	0.98
18:B3:1429:U:OP2	33:BN:124:GLN:HG3	1.62	0.98
21:BB:147:VAL:HG21	21:BB:155:LYS:HB2	1.43	0.98
23:BD:180:VAL:HG21	23:BD:222:PRO:HB2	1.43	0.98
24:BE:16:PHE:CD1	36:BQ:19:PHE:CE1	2.50	0.98
40:BU:31:LEU:HD22	40:BU:101:PRO:HD2	1.45	0.98
1:AA:190(D):U:C4	16:AQ:112:PRO:CD	2.43	0.98
1:AA:364:A:P	12:AL:50:LYS:CG	2.50	0.98
1:AA:678:U:C2'	11:AK:125:THR:CB	2.39	0.98
1:AA:1116:C:H2'	1:AA:1117:G:H5"	1.45	0.98
1:AA:1297:C:C6	13:AM:53:ASP:OD2	2.14	0.98
1:AA:1497:G:N3	1:AA:1518:A:C4	2.23	0.98
2:AT:536:LEU:CD1	18:B3:2698:G:O2'	2.12	0.98
18:B3:500:G:N3	33:BN:16:ALA:HB1	1.77	0.98
18:B3:537:G:C2'	42:B0:41:VAL:HG11	1.93	0.98
18:B3:697:G:C3'	41:BV:112:LEU:HD11	1.88	0.98
18:B3:905:C:C4	18:B3:1330:A:C1'	2.45	0.98
18:B3:1115:U:H5"	18:B3:1140:C:O2	1.61	0.98
18:B3:1137:G:C6	18:B3:2785:C:C5	2.37	0.98
18:B3:1371:U:H5"	33:BN:66:ILE:CD1	1.81	0.98
18:B3:1501:A:OP2	35:BP:37:ARG:CD	2.10	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1816:C:C1'	18:B3:2746:A:N3	2.27	0.98
18:B3:2135:A:C2	18:B3:2239:C:C4	2.50	0.98
18:B3:2368:A:H3'	24:BE:31:TYR:CE2	1.98	0.98
18:B3:2404:G:C8	36:BQ:69:LYS:CD	2.42	0.98
18:B3:2459:G:P	46:BZ:86:ARG:CZ	2.51	0.98
18:B3:2705:U:H5'	27:BH:122:LYS:HE2	1.41	0.98
22:BC:156:VAL:HG23	22:BC:158:ARG:HH22	1.28	0.98
27:BH:40:HIS:C	32:BM:125:VAL:HG12	1.82	0.98
39:BT:75:VAL:HG12	39:BT:80:ILE:HG13	1.45	0.98
1:AA:405:U:C5	5:AD:23:ARG:HB3	1.78	0.98
1:AA:523:A:N6	12:AL:116:ASP:HB2	1.77	0.98
1:AA:1349:A:H5"	9:AI:135:SER:CB	1.92	0.98
1:AA:1408:A:C5'	18:B3:1960:A:P	2.52	0.98
1:AA:1419:G:C2	18:B3:1990:C:H4'	1.99	0.98
6:AE:219:ASN:O	8:AH:99:GLY:CA	2.10	0.98
18:B3:10:U:HO2'	18:B3:11:A:H8	0.99	0.98
18:B3:449:A:H4'	23:BD:194:ARG:HH21	1.29	0.98
18:B3:1163:G:H4'	30:BK:54:LYS:HB2	1.45	0.98
18:B3:1805:G:H5'	18:B3:2875:A:O2'	1.29	0.98
18:B3:1870:C:O3'	21:BB:192:ARG:HB2	1.56	0.98
18:B3:2081:A:C1'	32:BM:69:PRO:HG3	1.93	0.98
18:B3:2345:A:H4'	29:BJ:48:LYS:CD	1.83	0.98
19:B4:8:G:N7	24:BE:21:ARG:CD	2.26	0.98
19:B4:56:A:H2'	19:B4:57:A:H5"	1.44	0.98
20:BA:55:LEU:HD12	20:BA:157:PHE:C	1.83	0.98
21:BB:47:ILE:CD1	47:B9:62:THR:HB	1.93	0.98
23:BD:221:VAL:HG11	23:BD:224:VAL:HB	1.45	0.98
35:BP:24:ASP:HB2	35:BP:27:GLU:HB2	1.45	0.98
1:AA:25:C:O2'	12:AL:109:ARG:NH1	1.95	0.98
1:AA:405:U:C2	5:AD:26:ALA:N	2.31	0.98
1:AA:619:U:C3'	5:AD:129:ILE:HD13	1.92	0.98
1:AA:1202:G:H1	10:AJ:74:GLU:HG3	1.28	0.98
18:B3:35:U:C2'	23:BD:48:ALA:HB3	1.94	0.98
18:B3:473:A:P	45:BY:48:TRP:HZ2	1.84	0.98
18:B3:517:U:O2	18:B3:1319:G:N2	1.97	0.98
18:B3:664:U:C5'	23:BD:114:HIS:HB3	1.93	0.98
18:B3:1127:C:O2	18:B3:2491:G:H4'	1.63	0.98
18:B3:1285:U:C3'	25:BF:155:ILE:CG2	2.40	0.98
22:BC:165:ILE:HG12	22:BC:171:ALA:HB1	1.45	0.98
34:BO:122:ILE:HD12	34:BO:124:LEU:H	1.25	0.98
1:AA:554:C:C6	12:AL:45:GLY:HA2	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:634:C:C3'	16:AQ:92:TYR:CE2	2.45	0.98
1:AA:676:A:N1	11:AK:123:ASP:HA	1.77	0.98
1:AA:689:C:OP1	11:AK:50:ASP:HA	1.61	0.98
2:AT:114:GLU:HG2	2:AT:537:HIS:HE1	1.25	0.98
2:AT:738:GLN:HA	18:B3:1199:A:H62	1.18	0.98
5:AD:92:LYS:HB2	5:AD:95:TYR:CE2	1.99	0.98
18:B3:448:G:H22	23:BD:47:GLN:HE21	1.11	0.98
18:B3:553:G:H4'	42:B0:69:SER:CB	1.93	0.98
18:B3:1167:G:C2'	30:BK:110:ILE:HG22	1.94	0.98
18:B3:1739:G:O2'	18:B3:2726:U:C5	1.90	0.98
18:B3:2134:G:C8	18:B3:2258:A:C2	2.48	0.98
18:B3:2441:U:O2'	41:BV:60:PHE:CZ	2.12	0.98
22:BC:69:ARG:HD2	37:BR:88:ARG:CD	1.92	0.98
23:BD:133:LEU:HD12	23:BD:136:ALA:HB3	1.45	0.98
26:BG:113:ALA:HB2	26:BG:119:LYS:HB3	1.45	0.98
43:BW:58:ILE:HG13	43:BW:59:TRP:CZ2	1.98	0.98
1:AA:143:A:H4'	1:AA:199:G:C2'	1.93	0.98
9:AI:8:THR:HG23	9:AI:19:ALA:HB3	1.45	0.98
18:B3:215:A:OP1	41:BV:58:ARG:HB2	1.61	0.98
18:B3:635:A:C5'	23:BD:91:ASN:HD21	1.73	0.98
18:B3:1154:A:H8	18:B3:1155:G:H2'	0.82	0.98
18:B3:1809:G:N2	18:B3:2732:U:C4'	2.25	0.98
18:B3:2519:C:C6	28:BI:158:LYS:CE	2.43	0.98
19:B4:29:C:H41	24:BE:57:ASN:HB3	0.83	0.98
20:BA:55:LEU:CG	20:BA:157:PHE:HA	1.93	0.98
21:BB:171:GLY:N	47:B9:67:ALA:N	2.11	0.98
35:BP:94:TRP:CZ3	35:BP:95:ILE:HD12	1.99	0.98
2:AT:138:GLN:HE22	18:B3:2698:G:H5"	1.20	0.98
2:AT:140:GLU:HB3	2:AT:481:MET:CB	1.93	0.98
3:AB:73:VAL:HG23	3:AB:117:PRO:HB3	1.44	0.98
18:B3:795:G:H2'	18:B3:817:G:H22	1.25	0.98
18:B3:2820:A:H5'	22:BC:90:GLY:N	1.79	0.98
22:BC:158:ARG:HD3	22:BC:179:GLU:HG3	1.45	0.98
1:AA:239:U:H3'	1:AA:240:C:C2	1.98	0.98
1:AA:620:C:OP1	5:AD:143:ILE:HG22	1.16	0.98
1:AA:678:U:C2'	11:AK:125:THR:HG22	1.90	0.98
1:AA:779:C:C5'	11:AK:132:ARG:CA	2.42	0.98
1:AA:956:U:H1'	17:AS:126:VAL:HG21	0.99	0.98
1:AA:988:G:C5	1:AA:1015:A:C4	2.52	0.98
1:AA:1256:A:H4'	1:AA:1257:U:H5'	1.46	0.98
1:AA:1300:G:H3'	13:AM:30:TYR:HE1	1.29	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1503:A:OP1	1:AA:1531:A:C8	2.17	0.98
3:AB:139:ASN:CB	8:AH:69:ASN:O	2.11	0.98
18:B3:52:A:C5'	45:BY:19:ASN:O	2.12	0.98
18:B3:629:A:H5'	42:B0:39:ASP:O	1.63	0.98
18:B3:1402:G:P	43:BW:62:GLY:HA3	2.04	0.98
18:B3:1745:G:OP1	37:BR:22:ILE:HG12	1.60	0.98
18:B3:2093:G:O2'	22:BC:253:ALA:CB	0.68	0.98
18:B3:2662:G:H1'	18:B3:2814:A:N1	1.77	0.98
18:B3:2819:C:C2'	22:BC:100:SER:CA	2.41	0.98
19:B4:118:C:H2'	24:BE:71:GLY:CA	1.91	0.98
22:BC:305:THR:HG21	22:BC:315:GLU:HA	1.45	0.98
9:AI:58:LYS:HE2	9:AI:62:ILE:HG13	1.41	0.97
18:B3:67:A:OP1	44:BX:56:THR:CG2	2.12	0.97
18:B3:473:A:C5'	45:BY:48:TRP:HZ2	1.77	0.97
18:B3:1056:U:H4'	28:BI:8:CYS:HB2	1.41	0.97
18:B3:1717:A:OP1	35:BP:55:THR:N	1.97	0.97
18:B3:1807:U:C5'	18:B3:2884:G:N3	2.27	0.97
18:B3:2334:C:H1'	29:BJ:112:GLY:C	1.84	0.97
18:B3:2763:G:H3'	37:BR:14:SER:HB2	1.05	0.97
18:B3:2780:C:O2'	27:BH:155:SER:O	1.80	0.97
18:B3:2819:C:C2'	22:BC:100:SER:HA	1.63	0.97
19:B4:36:C:C5'	24:BE:182:GLY:N	2.25	0.97
20:BA:57:ASN:HD21	20:BA:155:ILE:HD11	1.29	0.97
22:BC:184:GLY:HA3	22:BC:190:LYS:HD2	1.45	0.97
22:BC:222:GLY:HA3	22:BC:270:GLY:HA2	1.45	0.97
28:BI:47:PRO:HG2	28:BI:141:LYS:HA	1.46	0.97
1:AA:1340:A:H2'	9:AI:141:TYR:CE1	1.99	0.97
18:B3:78:G:O2'	40:BU:25:SER:HA	1.63	0.97
18:B3:81:G:C5'	40:BU:74:TYR:H	1.64	0.97
18:B3:449:A:C5'	18:B3:1306:U:O4'	2.12	0.97
18:B3:1852:A:H4'	21:BB:236:LEU:HD23	1.46	0.97
18:B3:2093:G:N1	22:BC:257:ALA:O	1.95	0.97
18:B3:2283:G:N3	28:BI:115:MET:HG2	1.78	0.97
18:B3:2347:C:C6	29:BJ:66:VAL:CG1	0.94	0.97
20:BA:152:ARG:C	20:BA:158:GLN:OE1	1.91	0.97
20:BA:174:MET:HB3	20:BA:178:VAL:HG21	1.45	0.97
32:BM:33:VAL:HG11	32:BM:104:PHE:HE1	1.29	0.97
37:BR:45:ARG:HG2	37:BR:46:LEU:HD13	1.46	0.97
1:AA:1348:U:H4'	9:AI:134:ARG:CB	1.92	0.97
2:AT:137:VAL:O	2:AT:481:MET:SD	2.22	0.97
10:AJ:73:GLY:HA2	14:AN:25:SER:O	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:111:C:C5'	18:B3:118:G:O6	2.10	0.97
18:B3:219:G:H4'	46:BZ:52:GLN:HG3	1.46	0.97
18:B3:671:A:C4'	23:BD:212:ASN:O	2.12	0.97
18:B3:2346:C:H5"	29:BJ:47:SER:O	1.62	0.97
18:B3:2468:A:N1	46:BZ:55:PRO:HD3	1.78	0.97
18:B3:2657:G:OP1	22:BC:19:LYS:HA	1.63	0.97
36:BQ:57:TYR:HE2	36:BQ:76:ILE:HD13	1.28	0.97
1:AA:988:G:C5'	1:AA:1014:A:P	2.51	0.97
1:AA:1301:U:OP1	13:AM:33:THR:OG1	1.83	0.97
18:B3:72:C:O2'	44:BX:53:CYS:CB	2.11	0.97
18:B3:120:A:C8	45:BY:26:PHE:HE1	1.81	0.97
18:B3:160:A:OP1	31:BL:85:ASN:HB2	1.17	0.97
18:B3:401:C:H5"	31:BL:94:GLN:O	1.61	0.97
18:B3:796:A:H4'	47:B9:12:LYS:CA	1.93	0.97
18:B3:844:A:H5'	33:BN:133:GLY:HA2	1.41	0.97
18:B3:1899:C:H1'	21:BB:223:THR:OG1	1.64	0.97
18:B3:2413:A:C4	24:BE:174:PRO:HB2	1.98	0.97
22:BC:55:ILE:CB	22:BC:74:ALA:HB2	1.94	0.97
28:BI:26:VAL:HG13	28:BI:125:LEU:HD11	1.43	0.97
1:AA:35:G:C5'	12:AL:128:SER:HB2	1.93	0.97
1:AA:129(A):G:O2'	16:AQ:137:ASN:N	1.97	0.97
1:AA:318:G:C2	1:AA:1434:A:N3	2.30	0.97
1:AA:979:C:O2'	17:AS:58:LYS:HE3	1.65	0.97
1:AA:990:C:C6	1:AA:1016:A:N3	2.32	0.97
1:AA:1243:C:O2'	13:AM:48:LYS:NZ	1.96	0.97
18:B3:471:G:C4'	45:BY:15:HIS:CE1	2.46	0.97
18:B3:475:G:OP1	23:BD:58:GLN:NE2	1.97	0.97
18:B3:672:G:H1	23:BD:232:LEU:CD1	1.77	0.97
18:B3:1164:U:C2'	30:BK:51:LYS:HB3	1.95	0.97
18:B3:1352:A:H5'	23:BD:102:THR:HG23	0.99	0.97
18:B3:2215:A:H5"	20:BA:107:TYR:CD2	1.99	0.97
18:B3:2579:G:H4'	18:B3:2680:A:N9	1.78	0.97
18:B3:2736:U:H3'	35:BP:61:ARG:HB2	0.97	0.97
18:B3:2737:C:H5	35:BP:61:ARG:HA	1.27	0.97
18:B3:2809:G:O2'	22:BC:16:LEU:O	1.80	0.97
19:B4:119:C:N1	24:BE:71:GLY:HA2	1.79	0.97
21:BB:56:PRO:HD2	47:B9:51:ALA:HB1	1.46	0.97
22:BC:56:VAL:CG2	37:BR:89:ASP:O	2.11	0.97
23:BD:59:THR:HG22	23:BD:83:ARG:HD2	1.45	0.97
37:BR:95:PHE:CB	38:BS:22:VAL:CG1	2.15	0.97
45:BY:46:TYR:CE2	45:BY:48:TRP:HB3	1.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190(D):U:O2	16:AQ:111:SER:OG	1.82	0.97
1:AA:553:A:C2'	12:AL:45:GLY:N	2.26	0.97
1:AA:920:U:C5'	1:AA:1080:A:N9	2.10	0.97
1:AA:920:U:O4'	1:AA:1080:A:H1'	1.65	0.97
2:AT:141:THR:O	2:AT:483:PHE:CD2	2.17	0.97
18:B3:49:A:C2	18:B3:113:A:O4'	2.18	0.97
18:B3:120:A:N3	45:BY:16:THR:HG21	1.78	0.97
18:B3:124:C:H6	39:BT:88:LYS:NZ	1.60	0.97
18:B3:500:G:C2'	33:BN:16:ALA:HB1	1.95	0.97
18:B3:894:A:C4	23:BD:98:MET:HB3	2.00	0.97
18:B3:1164:U:OP1	30:BK:50:THR:HB	1.64	0.97
18:B3:1370:G:O4'	33:BN:62:PHE:CD1	2.13	0.97
18:B3:1788:U:O2	18:B3:2875:A:N6	1.98	0.97
18:B3:1794:G:C5'	35:BP:97:ARG:CG	2.43	0.97
18:B3:2350:G:OP1	29:BJ:139:ARG:HD3	1.60	0.97
18:B3:2735:U:OP2	35:BP:79:LYS:CE	2.13	0.97
22:BC:260:MET:HE2	32:BM:66:THR:HG23	1.46	0.97
23:BD:136:ALA:HB3	23:BD:137:ARG:HH21	1.27	0.97
40:BU:45:ILE:HD12	40:BU:47:ALA:H	1.30	0.97
1:AA:553:A:H2'	12:AL:45:GLY:HA2	0.99	0.97
1:AA:617:G:OP2	5:AD:146:PHE:CZ	2.18	0.97
1:AA:865:A:O2'	1:AA:1079:G:C2	2.11	0.97
1:AA:1370:G:O5'	9:AI:123:PRO:CG	2.13	0.97
2:AT:113:SER:OG	2:AT:517:CYS:N	1.61	0.97
6:AE:102:VAL:HG21	6:AE:189:LEU:CD2	1.87	0.97
8:AH:24:VAL:HG23	8:AH:64:LEU:HD11	1.44	0.97
18:B3:120:A:C2	45:BY:16:THR:CG2	2.47	0.97
18:B3:621:C:H3'	42:B0:36:LYS:HB2	1.46	0.97
18:B3:945:U:C5'	25:BF:128:LEU:CD1	2.41	0.97
18:B3:1184:A:C4'	30:BK:86:LYS:HB2	1.94	0.97
18:B3:2596:A:H5"	37:BR:73:VAL:HG12	1.43	0.97
22:BC:221:LYS:H	22:BC:221:LYS:HE3	1.25	0.97
23:BD:7:VAL:HG11	23:BD:16:ALA:HB3	1.47	0.97
27:BH:48:VAL:HA	27:BH:53:ILE:HG22	1.43	0.97
37:BR:92:PHE:CD1	38:BS:20:LEU:CD2	2.47	0.97
1:AA:190(E):U:O5'	16:AQ:109:HIS:HB2	1.62	0.97
1:AA:318:G:C2	1:AA:1433:A:N1	2.32	0.97
1:AA:518:C:O2'	12:AL:66:SER:O	1.80	0.97
10:AJ:52:LYS:HG2	10:AJ:91:ILE:HG22	1.43	0.97
18:B3:20:G:C4'	33:BN:5:ALA:O	2.12	0.97
18:B3:73:C:OP1	44:BX:5:LYS:CA	2.12	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1164:U:OP1	30:BK:47:ALA:O	1.80	0.97
23:BD:63:SER:HB2	23:BD:74:PRO:HA	1.43	0.97
23:BD:208:TYR:CE2	23:BD:224:VAL:HG21	2.00	0.97
26:BG:129:TYR:CE1	26:BG:202:VAL:HG11	1.98	0.97
28:BI:58:GLU:HG3	28:BI:128:ARG:HG2	1.44	0.97
33:BN:49:GLN:HG3	33:BN:54:GLN:HB3	1.46	0.97
1:AA:404:U:C1'	5:AD:19:TYR:HE2	1.78	0.97
1:AA:779:C:H5'	11:AK:132:ARG:N	1.80	0.97
1:AA:1177:G:H8	9:AI:107:ALA:N	1.12	0.97
1:AA:1302:U:H3'	13:AM:54:LEU:HD22	0.99	0.97
1:AA:1377:A:N3	7:AG:75:ARG:O	1.83	0.97
2:AT:464:LEU:HD13	2:AT:510:ARG:N	1.79	0.97
18:B3:500:G:H2'	33:BN:16:ALA:CB	1.94	0.97
18:B3:676:C:O3'	23:BD:232:LEU:C	2.03	0.97
18:B3:721:A:O5'	34:BO:71:LEU:HB3	1.64	0.97
18:B3:1010:C:O3'	24:BE:15:ARG:CZ	2.11	0.97
18:B3:1371:U:H4'	33:BN:65:SER:HB2	1.47	0.97
18:B3:2709:G:OP1	37:BR:10:LYS:N	1.97	0.97
18:B3:2840:A:OP1	22:BC:224:GLY:HA3	1.64	0.97
18:B3:2846:C:C4'	22:BC:174:LYS:HE3	1.93	0.97
19:B4:50:G:N1	24:BE:58:LYS:N	2.13	0.97
1:AA:615:C:C6	5:AD:149:ARG:HD3	1.99	0.97
1:AA:990:C:O2'	1:AA:1017:G:P	2.22	0.97
1:AA:1318:A:N3	17:AS:56:PHE:HD1	1.60	0.97
2:AT:748:ASN:HB3	18:B3:2508:C:H1'	1.45	0.97
5:AD:129:ILE:HD13	5:AD:142:ASN:HA	1.47	0.97
18:B3:560:C:H42	18:B3:597:A:H61	1.01	0.97
18:B3:1382:G:O2'	43:BW:26:LYS:HG3	1.65	0.97
18:B3:1785:G:C1'	18:B3:2733:U:OP1	2.11	0.97
18:B3:2552:C:C5'	18:B3:2553:A:H2	1.65	0.97
18:B3:2737:C:H41	35:BP:61:ARG:NH2	1.63	0.97
19:B4:85:A:O4'	25:BF:228:PHE:CZ	2.16	0.97
43:BW:9:ARG:HH22	43:BW:72:LEU:HD11	1.30	0.97
1:AA:123:C:C5'	1:AA:312:C:O2'	2.12	0.96
1:AA:190(E):U:N3	16:AQ:131:SER:CB	2.26	0.96
1:AA:319:G:C2	1:AA:1434:A:C2	2.52	0.96
1:AA:1180:A:H5'	9:AI:117:ILE:CD1	1.90	0.96
1:AA:1330:U:P	13:AM:97:ASP:HB3	2.05	0.96
2:AT:111:PHE:CB	2:AT:484:SER:O	2.12	0.96
18:B3:68:U:H2'	44:BX:55:LEU:CB	1.90	0.96
18:B3:402:U:H5'	31:BL:69:ASN:ND2	1.77	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:697:G:OP1	41:BV:131:LYS:N	1.97	0.96
18:B3:782:G:H5"	21:BB:189:ARG:HH12	1.28	0.96
18:B3:949:U:H1'	36:BQ:100:LYS:CB	1.85	0.96
18:B3:1131:G:C6	18:B3:2523:U:C5'	2.48	0.96
18:B3:1315:G:H21	42:B0:107:VAL:CB	1.76	0.96
18:B3:1814:G:N3	18:B3:2733:U:C6	2.33	0.96
18:B3:2652:U:C2	22:BC:257:ALA:CB	2.41	0.96
21:BB:47:ILE:HD12	47:B9:62:THR:HB	1.43	0.96
21:BB:177:PRO:HD3	47:B9:25:VAL:HG23	1.00	0.96
21:BB:177:PRO:CB	47:B9:22:ARG:NH1	2.27	0.96
24:BE:144:VAL:HB	24:BE:171:LEU:HD21	1.43	0.96
27:BH:94:TYR:CB	27:BH:177:ASP:HA	1.92	0.96
38:BS:52:THR:HB	38:BS:55:PHE:HB2	1.44	0.96
1:AA:143:A:P	1:AA:201:C:C6	2.58	0.96
1:AA:554:C:O4'	12:AL:45:GLY:HA3	1.37	0.96
2:AT:749:LYS:CG	18:B3:2508:C:C6	2.48	0.96
18:B3:537:G:H3'	42:B0:41:VAL:HG11	0.98	0.96
18:B3:907:A:H5'	18:B3:1328:A:H4'	0.96	0.96
18:B3:1308:A:O2'	23:BD:204:PRO:CB	2.13	0.96
18:B3:2489:G:H2'	18:B3:2490:A:C8	2.00	0.96
18:B3:2552:C:O3'	18:B3:2553:A:H5'	1.64	0.96
22:BC:48:TYR:CB	22:BC:335:VAL:HA	1.94	0.96
26:BG:116:ALA:HA	26:BG:177:ALA:HB2	1.44	0.96
37:BR:32:ARG:HH21	37:BR:34:LEU:HD12	1.29	0.96
1:AA:319:G:C5	1:AA:1434:A:C2	2.50	0.96
1:AA:404:U:N1	5:AD:19:TYR:HE2	1.57	0.96
1:AA:1177:G:O3'	9:AI:105:LYS:CG	2.10	0.96
1:AA:1221:G:OP2	17:AS:81:ARG:N	1.98	0.96
3:AB:31:HIS:NE2	8:AH:21:LYS:CE	2.27	0.96
9:AI:30:VAL:HG23	9:AI:66:VAL:HG13	1.47	0.96
18:B3:401:C:O2'	31:BL:93:TYR:O	1.82	0.96
18:B3:676:C:C3'	23:BD:232:LEU:O	1.97	0.96
18:B3:1180:C:C2	30:BK:110:ILE:HD11	1.99	0.96
18:B3:1181:A:C5	30:BK:106:LEU:CD1	2.45	0.96
18:B3:1742:A:C8	18:B3:2723:G:H4'	1.99	0.96
24:BE:199:ILE:HD13	24:BE:219:PHE:HB3	1.45	0.96
31:BL:82:LYS:HE3	46:BZ:49:PHE:HB3	1.19	0.96
40:BU:72:SER:HB3	40:BU:81:GLN:H	1.31	0.96
1:AA:119:A:H2	1:AA:238:G:C2'	1.77	0.96
1:AA:131:C:O4'	1:AA:264:U:C1'	1.97	0.96
1:AA:529:G:H1	12:AL:69:ARG:NH2	1.60	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1345:U:N3	7:AG:76:TYR:CG	1.89	0.96
18:B3:538:C:C2'	42:B0:21:HIS:HA	1.95	0.96
18:B3:875:A:C1'	21:BB:203:MET:HE1	1.96	0.96
18:B3:1067:A:H5"	25:BF:96:PRO:HG3	1.47	0.96
18:B3:1115:U:O2	18:B3:1225:C:H5'	1.64	0.96
18:B3:1745:G:C5'	37:BR:22:ILE:HD11	1.90	0.96
18:B3:1899:C:O3'	21:BB:225:SER:HA	1.64	0.96
18:B3:2736:U:C3'	35:BP:61:ARG:CB	2.35	0.96
22:BC:260:MET:HB3	32:BM:66:THR:CG2	1.85	0.96
25:BF:198:ASN:HB3	25:BF:200:PHE:CZ	2.00	0.96
27:BH:41:ILE:HG22	32:BM:126:LEU:CD2	1.94	0.96
37:BR:37:ILE:HD13	37:BR:38:ALA:H	1.27	0.96
1:AA:1115:C:H5"	10:AJ:85:ARG:HH21	1.26	0.96
9:AI:21:VAL:HG13	9:AI:62:ILE:HG23	1.45	0.96
10:AJ:70:THR:OG1	14:AN:42:PHE:N	1.98	0.96
18:B3:170:U:H5"	31:BL:82:LYS:CG	1.94	0.96
18:B3:516:A:H1'	18:B3:1340:G:H5"	0.98	0.96
18:B3:1315:G:H21	42:B0:107:VAL:HG11	1.30	0.96
18:B3:1358:A:H2'	23:BD:92:MET:HG3	1.47	0.96
19:B4:36:C:H4'	24:BE:182:GLY:N	1.77	0.96
20:BA:55:LEU:CD2	20:BA:167:VAL:CA	2.43	0.96
22:BC:162:HIS:HA	22:BC:177:LEU:HB2	1.43	0.96
22:BC:259:VAL:HG13	22:BC:261:TRP:HD1	1.14	0.96
24:BE:75:LEU:HD12	24:BE:113:LEU:HD11	1.48	0.96
37:BR:54:LEU:HD22	37:BR:54:LEU:H	1.30	0.96
39:BT:120:LYS:HE3	39:BT:120:LYS:HA	1.47	0.96
1:AA:131:C:O2'	1:AA:264:U:H6	1.48	0.96
1:AA:401:C:O2	1:AA:622:A:C4	2.18	0.96
13:AM:29:VAL:HG13	13:AM:43:SER:HB3	1.47	0.96
18:B3:68:U:C5	44:BX:54:VAL:O	2.18	0.96
18:B3:697:G:H5"	41:BV:132:LEU:CD2	1.95	0.96
18:B3:697:G:C5'	41:BV:130:SER:HG	1.79	0.96
18:B3:1167:G:N3	30:BK:110:ILE:CG2	2.28	0.96
18:B3:1447:U:O2	39:BT:74:LYS:HB2	1.65	0.96
18:B3:1675:C:O5'	39:BT:113:VAL:O	1.80	0.96
18:B3:2597:U:O5'	37:BR:74:MET:SD	2.24	0.96
18:B3:2737:C:N4	35:BP:61:ARG:HE	1.63	0.96
18:B3:2806:C:C4'	22:BC:343:THR:CG2	2.44	0.96
19:B4:51:A:N9	24:BE:58:LYS:CB	1.84	0.96
25:BF:177:ILE:HG22	25:BF:183:LEU:HD23	1.45	0.96
39:BT:63:GLU:CB	39:BT:85:VAL:HB	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1291:G:H5”	7:AG:111:ARG:HH22	1.25	0.96
2:AT:114:GLU:HG2	2:AT:537:HIS:CE1	2.00	0.96
2:AT:140:GLU:HG2	2:AT:481:MET:HA	1.47	0.96
10:AJ:78:THR:HG22	14:AN:39:ARG:HB3	1.46	0.96
18:B3:68:U:O5’	44:BX:55:LEU:HB2	1.12	0.96
18:B3:93:C:C4’	44:BX:42:PRO:HB2	1.94	0.96
18:B3:266:G:OP1	31:BL:144:ASP:OD2	1.83	0.96
18:B3:480:C:O3’	18:B3:481:U:C5’	2.14	0.96
18:B3:620:A:C4’	42:B0:40:SER:CB	2.44	0.96
18:B3:679:G:P	23:BD:258:ASP:OD2	2.24	0.96
18:B3:1099:G:OP1	25:BF:217:ARG:CZ	2.14	0.96
18:B3:1164:U:N1	30:BK:51:LYS:HB3	1.78	0.96
18:B3:1277:C:H5”	34:BO:34:THR:HG21	1.45	0.96
18:B3:1689:A:C5	33:BN:128:THR:CG2	2.48	0.96
19:B4:6:C:OP1	24:BE:28:THR:HA	1.64	0.96
31:BL:46:LYS:HD2	31:BL:118:TYR:CE1	2.00	0.96
46:BZ:25:THR:HG21	46:BZ:70:ARG:HG2	1.44	0.96
18:B3:473:A:H5’	45:BY:48:TRP:CE2	2.00	0.96
18:B3:473:A:P	45:BY:48:TRP:CZ2	2.59	0.96
18:B3:500:G:N2	33:BN:96:ASN:HD22	1.62	0.96
18:B3:1262:C:H5’	25:BF:110:ILE:HG22	1.47	0.96
18:B3:1744:G:O3’	37:BR:22:ILE:HB	1.64	0.96
18:B3:1745:G:H5’	37:BR:22:ILE:HD13	1.00	0.96
18:B3:2101:A:N7	23:BD:71:ALA:HA	1.81	0.96
18:B3:2581:U:O4’	18:B3:2600:A:C2	2.19	0.96
20:BA:45:ARG:HB2	20:BA:47:LYS:HD3	1.46	0.96
21:BB:2:ARG:HG3	21:BB:206:VAL:HG21	1.46	0.96
22:BC:220:THR:H	22:BC:272:HIS:HB2	1.27	0.96
22:BC:357:TRP:CB	38:BS:15:PRO:HB3	1.94	0.96
1:AA:62:U:O2’	1:AA:385:C:H1’	1.65	0.96
1:AA:537:G:O3’	12:AL:143:PRO:CD	2.13	0.96
1:AA:1150:U:O2’	10:AJ:59:PRO:N	1.63	0.96
10:AJ:34:LEU:HA	10:AJ:37:VAL:HG22	1.46	0.96
14:AN:21:ARG:HB3	14:AN:35:LEU:HD23	1.44	0.96
18:B3:902:G:N7	41:BV:21:ILE:HD12	1.79	0.96
18:B3:1139:U:H5’	27:BH:62:ARG:HG3	1.46	0.96
18:B3:1167:G:O2’	30:BK:111:GLU:CA	2.13	0.96
18:B3:1206:C:C1’	18:B3:1207:A:C8	2.48	0.96
18:B3:2345:A:H4’	29:BJ:48:LYS:HD3	1.39	0.96
20:BA:55:LEU:HD23	20:BA:167:VAL:CB	1.95	0.96
23:BD:31:PRO:HA	23:BD:34:VAL:HG22	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:20:U:O4'	1:AA:573:A:N6	1.98	0.96
1:AA:319:G:N9	1:AA:1434:A:N1	2.13	0.96
1:AA:1301:U:H5"	13:AM:29:VAL:C	1.86	0.96
1:AA:1302:U:O4'	13:AM:54:LEU:HD21	1.66	0.96
1:AA:1308:U:O3'	13:AM:127:HIS:CE1	2.17	0.96
6:AE:160:LYS:HD3	8:AH:78:PHE:CZ	2.00	0.96
6:AE:219:ASN:HB2	8:AH:76:PRO:CG	1.95	0.96
7:AG:208:TYR:CD2	7:AG:212:LYS:HE3	2.01	0.96
18:B3:540:A:N6	42:B0:50:ILE:CD1	2.27	0.96
18:B3:620:A:C3'	42:B0:40:SER:HB2	1.95	0.96
18:B3:905:C:N3	18:B3:1330:A:N9	2.14	0.96
18:B3:1876:C:H2'	21:BB:131:ASN:HD21	0.79	0.96
18:B3:2038:A:OP1	37:BR:47:ASN:CB	2.14	0.96
18:B3:2349:G:H4'	29:BJ:15:LYS:HZ3	1.24	0.96
18:B3:2466:G:OP1	41:BV:38:HIS:CB	2.14	0.96
19:B4:30:C:O2	24:BE:57:ASN:CG	2.02	0.96
19:B4:51:A:N3	24:BE:58:LYS:CB	1.77	0.96
19:B4:87:U:C6	25:BF:217:ARG:CZ	2.46	0.96
25:BF:174:LYS:HB2	25:BF:198:ASN:HA	1.45	0.96
27:BH:170:LYS:HD3	27:BH:170:LYS:H	1.29	0.96
1:AA:318:G:N2	1:AA:1434:A:N3	2.13	0.95
1:AA:779:C:C4'	11:AK:132:ARG:C	2.34	0.95
1:AA:1014:A:OP2	17:AS:72:LYS:CE	2.14	0.95
1:AA:1405:G:C8	1:AA:1519:A:C4'	2.43	0.95
3:AB:84:ALA:HB1	3:AB:88:PHE:CE2	2.00	0.95
6:AE:155:THR:OG1	8:AH:97:GLN:O	1.82	0.95
18:B3:925:C:H4'	41:BV:28:PRO:HG2	1.43	0.95
18:B3:1167:G:O2'	30:BK:111:GLU:N	1.99	0.95
18:B3:1334:C:C2'	42:B0:98:HIS:H	1.71	0.95
18:B3:1370:G:H8	33:BN:62:PHE:CE1	1.75	0.95
18:B3:1707:G:O2'	35:BP:81:LYS:CD	2.11	0.95
18:B3:2053:G:N7	33:BN:24:SER:OG	1.98	0.95
18:B3:2093:G:H1'	22:BC:252:GLY:C	1.86	0.95
18:B3:2424:U:O2'	36:BQ:6:GLY:CA	2.14	0.95
27:BH:42:ASP:H	32:BM:124:ARG:C	1.69	0.95
31:BL:98:ARG:HG2	31:BL:119:TRP:HE1	1.29	0.95
1:AA:20:U:C5'	1:AA:573:A:H61	1.80	0.95
1:AA:31:G:N1	1:AA:48:C:OP1	1.98	0.95
1:AA:66:G:H5"	1:AA:173:U:N3	1.77	0.95
1:AA:121:C:C5	1:AA:235:C:C4	2.53	0.95
1:AA:404:U:H1'	5:AD:21:SER:O	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:560:U:O4'	1:AA:563:A:C5'	2.14	0.95
1:AA:1322:C:OP2	13:AM:138:THR:HG21	1.66	0.95
6:AE:215:VAL:O	8:AH:129:TYR:CD2	2.18	0.95
15:AO:114:LEU:HD12	15:AO:117:ILE:HD11	1.46	0.95
18:B3:521:A:P	42:B0:26:HIS:HE2	1.90	0.95
18:B3:1794:G:O3'	35:BP:96:ARG:HG3	1.65	0.95
18:B3:2370:A:N6	36:BQ:49:GLN:NE2	2.14	0.95
18:B3:2415:A:H1'	24:BE:39:GLN:OE1	1.59	0.95
31:BL:53:LYS:HE2	31:BL:58:PHE:CE2	2.01	0.95
34:BO:124:LEU:HD12	34:BO:127:LEU:HB3	1.48	0.95
37:BR:85:TRP:HB3	37:BR:86:ARG:HD3	1.48	0.95
1:AA:99:C:H1'	1:AA:101:A:C6	2.01	0.95
1:AA:546:G:H5'	1:AA:549:C:H5'	1.45	0.95
1:AA:1329:A:H61	13:AM:94:ASP:HA	1.30	0.95
2:AT:463:LEU:HA	2:AT:513:LYS:HZ3	0.99	0.95
9:AI:30:VAL:HG13	9:AI:38:VAL:HG21	1.46	0.95
10:AJ:70:THR:HB	14:AN:40:GLN:C	1.85	0.95
18:B3:78:G:O2'	40:BU:27:ARG:CZ	2.13	0.95
18:B3:881:C:O2	45:BY:7:PHE:HE2	1.38	0.95
18:B3:1164:U:N1	30:BK:51:LYS:CB	2.29	0.95
18:B3:1855:G:O6	21:BB:150:PRO:CG	2.13	0.95
18:B3:1875:A:O5'	21:BB:150:PRO:HG3	1.66	0.95
19:B4:5:G:N2	24:BE:71:GLY:O	1.99	0.95
19:B4:119:C:N1	24:BE:71:GLY:C	2.19	0.95
22:BC:69:ARG:CD	37:BR:88:ARG:HD2	1.96	0.95
22:BC:88:VAL:H	22:BC:104:VAL:HG21	1.28	0.95
1:AA:924:C:H1'	1:AA:1398:A:H2'	1.49	0.95
1:AA:1302:U:C5'	13:AM:54:LEU:CD2	2.44	0.95
1:AA:1406:U:C2	1:AA:1518:A:C4'	2.49	0.95
5:AD:92:LYS:N	6:AE:174:GLY:HA2	1.80	0.95
6:AE:216:ALA:O	8:AH:129:TYR:CD2	2.04	0.95
18:B3:123:U:OP1	39:BT:87:MET:HB2	1.40	0.95
18:B3:671:A:O3'	23:BD:212:ASN:O	1.84	0.95
18:B3:925:C:H4'	41:BV:28:PRO:HG3	0.96	0.95
18:B3:1118:A:C4'	18:B3:1228:C:C5	2.49	0.95
18:B3:1267:C:O3'	42:B0:61:LYS:CG	2.14	0.95
18:B3:1285:U:C5'	25:BF:155:ILE:CD1	2.37	0.95
18:B3:2579:G:H4'	18:B3:2680:A:C4	2.02	0.95
18:B3:2845:G:H4'	22:BC:24:ILE:HG22	1.44	0.95
19:B4:85:A:C5'	25:BF:131:PRO:HB2	1.88	0.95
20:BA:55:LEU:CD1	20:BA:158:GLN:H	1.78	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:180:ILE:HD12	25:BF:182:ASP:H	1.31	0.95
29:BJ:165:LYS:HG2	29:BJ:166:TYR:CD2	2.01	0.95
1:AA:67:C:C4	1:AA:70:G:C5	2.55	0.95
1:AA:362:G:O2'	12:AL:78:LYS:HA	1.66	0.95
1:AA:988:G:O2'	1:AA:1015:A:OP2	1.84	0.95
1:AA:989:C:N1	1:AA:1016:A:C4	2.21	0.95
1:AA:1176:A:O4'	9:AI:108:PHE:CD1	2.17	0.95
1:AA:1404:C:C2'	1:AA:1519:A:C4'	2.34	0.95
3:AB:141:PRO:CA	8:AH:68:LEU:CD1	2.43	0.95
6:AE:157:THR:HG21	8:AH:129:TYR:CD1	2.01	0.95
18:B3:220:C:C2	41:BV:54:LYS:NZ	2.34	0.95
18:B3:1132:A:HO2'	18:B3:2521:A:C5'	0.85	0.95
18:B3:1164:U:H5'	30:BK:47:ALA:C	1.85	0.95
18:B3:1687:C:HO2'	45:BY:8:GLY:HA3	1.14	0.95
18:B3:2335:C:N1	29:BJ:116:ASP:CG	2.05	0.95
20:BA:53:LEU:HD22	20:BA:189:PHE:CZ	2.02	0.95
22:BC:161:VAL:HG23	22:BC:177:LEU:HB3	1.46	0.95
26:BG:158:PRO:HG2	31:BL:40:ARG:NH2	1.81	0.95
27:BH:99:ILE:HD11	27:BH:114:VAL:HG12	1.46	0.95
27:BH:103:ILE:HG21	27:BH:134:ILE:HG21	1.48	0.95
33:BN:117:GLN:HG3	33:BN:145:ILE:CB	1.96	0.95
2:AT:501:LEU:HD12	12:AL:99:ASN:HB2	1.03	0.95
18:B3:618:G:C1'	42:B0:46:PHE:O	2.15	0.95
18:B3:763:C:O2	23:BD:86:GLN:CD	2.02	0.95
18:B3:1206:C:N1	18:B3:1207:A:N7	2.13	0.95
18:B3:1732:A:C1'	18:B3:2840:A:P	2.53	0.95
18:B3:2334:C:C4	29:BJ:115:TYR:N	2.21	0.95
20:BA:56:PRO:HB2	20:BA:155:ILE:HD13	1.48	0.95
23:BD:171:VAL:HG23	23:BD:173:ALA:H	1.27	0.95
24:BE:16:PHE:CG	36:BQ:19:PHE:HZ	1.84	0.95
27:BH:54:LYS:HD3	27:BH:72:LYS:HE2	1.49	0.95
42:B0:19:ARG:HG2	42:B0:33:ARG:H	1.30	0.95
1:AA:65:U:P	1:AA:96:G:H3'	2.04	0.95
1:AA:190(E):U:C5'	16:AQ:109:HIS:CG	2.29	0.95
1:AA:363:A:C2'	12:AL:49:ALA:HA	1.55	0.95
1:AA:706:A:H5'	11:AK:23:ASN:HD22	1.29	0.95
1:AA:1249:C:C2'	9:AI:72:GLY:HA2	1.96	0.95
4:AC:105:LYS:HE3	4:AC:183:ILE:HB	1.47	0.95
7:AG:111:ARG:HH22	9:AI:41:GLU:CD	1.70	0.95
10:AJ:70:THR:HG22	14:AN:40:GLN:H	1.32	0.95
18:B3:1348:A:H5'	23:BD:241:ALA:HB1	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2133:U:H4'	18:B3:2134:G:C4'	1.95	0.95
18:B3:2560:C:H1'	18:B3:2776:A:N3	1.80	0.95
25:BF:179:SER:HA	25:BF:183:LEU:HD21	1.49	0.95
39:BT:82:VAL:HB	39:BT:83:PHE:CD1	2.02	0.95
1:AA:21:G:C4'	1:AA:885:G:C5'	2.45	0.95
1:AA:970:C:H41	9:AI:142:ARG:HE	1.03	0.95
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.64	0.95
1:AA:1177:G:O3'	9:AI:105:LYS:HG2	1.65	0.95
1:AA:1406:U:O4'	1:AA:1518:A:H5"	1.67	0.95
8:AH:13:ILE:HD11	8:AH:26:ILE:HD12	1.47	0.95
9:AI:28:ILE:HD13	9:AI:48:TYR:CZ	2.01	0.95
18:B3:81:G:C5'	40:BU:73:VAL:C	2.27	0.95
18:B3:111:C:C2'	18:B3:119:A:N6	2.26	0.95
18:B3:170:U:H6	46:BZ:49:PHE:CE2	1.84	0.95
18:B3:537:G:C4'	42:B0:21:HIS:NE2	2.29	0.95
18:B3:924:G:N1	41:BV:41:ARG:HB2	1.79	0.95
18:B3:953:G:P	36:BQ:13:TYR:HB2	2.05	0.95
18:B3:1118:A:O4'	18:B3:1227:C:C5	2.20	0.95
18:B3:1232:A:O2'	18:B3:2525:G:OP1	1.85	0.95
18:B3:1268:C:H5'	42:B0:61:LYS:HB3	1.47	0.95
18:B3:1349:G:O3'	23:BD:40:SER:O	1.85	0.95
18:B3:1449:G:H5'	39:BT:110:ASN:HD22	1.21	0.95
18:B3:1787:C:P	35:BP:73:ARG:HH21	1.87	0.95
18:B3:1789:G:HO2'	18:B3:2877:G:H1'	1.20	0.95
18:B3:2737:C:H5"	35:BP:59:LYS:N	1.81	0.95
19:B4:6:C:N1	24:BE:72:ASP:OD2	1.98	0.95
19:B4:59:C:OP1	24:BE:25:GLU:HG3	1.66	0.95
21:BB:186:HIS:CD2	21:BB:187:LYS:HG2	2.01	0.95
22:BC:359:ASP:N	38:BS:16:GLY:H	1.65	0.95
23:BD:149:LEU:HG	23:BD:248:ILE:HG13	1.47	0.95
23:BD:192:LYS:HE2	23:BD:193:TYR:HD1	1.29	0.95
33:BN:59:PHE:HE1	33:BN:79:LYS:HE2	1.32	0.95
1:AA:31:G:C6	1:AA:48:C:OP1	2.20	0.95
1:AA:1290:G:H5"	7:AG:108:LYS:CE	1.95	0.95
4:AC:76:PHE:CD2	4:AC:83:ILE:HD11	2.02	0.95
5:AD:92:LYS:HA	6:AE:174:GLY:HA2	1.48	0.95
9:AI:29:LYS:HE3	9:AI:65:ARG:HG3	1.48	0.95
18:B3:120:A:O2'	45:BY:17:LEU:HD12	1.66	0.95
18:B3:215:A:H4'	41:BV:58:ARG:HE	1.25	0.95
18:B3:677:C:C2'	23:BD:256:LYS:HG2	1.96	0.95
18:B3:1380:U:C3'	43:BW:25:LYS:NZ	2.23	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1398:G:O4'	35:BP:25:PRO:CG	2.15	0.95
18:B3:1772:C:C5'	47:B9:15:VAL:HG12	1.97	0.95
18:B3:2328:U:C5'	24:BE:153:THR:OG1	2.14	0.95
18:B3:2346:C:H5"	29:BJ:47:SER:N	1.82	0.95
18:B3:2560:C:H5'	27:BH:168:ARG:CG	1.97	0.95
18:B3:2673:U:H1'	22:BC:98:LEU:HD23	1.45	0.95
18:B3:2809:G:H4'	22:BC:16:LEU:O	1.66	0.95
20:BA:55:LEU:HD12	20:BA:158:GLN:N	1.82	0.95
25:BF:93:LYS:HG2	25:BF:94:ILE:HG23	1.48	0.95
27:BH:75:VAL:HA	27:BH:78:MET:HG2	1.48	0.95
37:BR:9:THR:HG23	37:BR:11:PHE:H	1.26	0.95
37:BR:95:PHE:HZ	38:BS:23:ARG:HG2	1.21	0.95
1:AA:320:C:C4'	1:AA:1436:U:C2	2.37	0.95
1:AA:777:A:H2'	11:AK:126:ARG:HD3	1.48	0.95
1:AA:1179:A:H5'	9:AI:116:LEU:O	1.50	0.95
2:AT:141:THR:HG23	2:AT:483:PHE:HB3	0.97	0.95
6:AE:219:ASN:HB2	8:AH:76:PRO:HG2	1.46	0.95
18:B3:35:U:O2'	23:BD:48:ALA:CA	2.15	0.95
18:B3:518:G:H5"	18:B3:1338:U:H1'	1.45	0.95
18:B3:903:U:O4	41:BV:15:SER:CB	2.15	0.95
18:B3:1788:U:O2'	18:B3:2882:G:C4	2.07	0.95
18:B3:2468:A:C6	46:BZ:55:PRO:CD	2.48	0.95
21:BB:38:GLY:HA2	21:BB:90:GLY:HA3	1.46	0.95
37:BR:54:LEU:HD21	37:BR:81:GLN:HB2	1.49	0.95
1:AA:920:U:C5'	1:AA:1080:A:N3	2.22	0.94
1:AA:1406:U:C1'	1:AA:1518:A:H5"	1.95	0.94
2:AT:463:LEU:CA	2:AT:513:LYS:HZ2	1.73	0.94
2:AT:757:GLU:HB3	18:B3:1171:A:HO2'	1.16	0.94
18:B3:251:C:O3'	31:BL:139:LYS:HG2	1.66	0.94
18:B3:948:G:N3	36:BQ:100:LYS:HD3	1.79	0.94
18:B3:953:G:H5"	36:BQ:13:TYR:HD2	1.29	0.94
18:B3:1855:G:O2'	21:BB:155:LYS:HD3	0.77	0.94
19:B4:97:U:H3	25:BF:220:LYS:CD	1.67	0.94
22:BC:238:PRO:HB2	22:BC:240:LYS:HE2	1.45	0.94
22:BC:260:MET:CE	32:BM:66:THR:HG23	1.97	0.94
24:BE:148:ILE:HG22	24:BE:159:VAL:HG11	1.49	0.94
26:BG:115:VAL:HG21	26:BG:213:LEU:HB2	1.46	0.94
37:BR:91:VAL:HG21	38:BS:17:ARG:HA	1.45	0.94
1:AA:35:G:H4'	12:AL:128:SER:CA	1.96	0.94
1:AA:190(E):U:C2	16:AQ:131:SER:HB2	1.99	0.94
1:AA:555:C:OP2	12:AL:38:PHE:CE2	2.20	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:754:C:C6	15:AO:127:TYR:CE2	2.55	0.94
1:AA:958:A:C2	17:AS:102:PHE:HD1	1.85	0.94
1:AA:1404:C:O2'	1:AA:1520:G:OP2	1.83	0.94
1:AA:1493:A:C2'	1:AA:1494:G:H5'	1.96	0.94
2:AT:463:LEU:HD21	2:AT:467:GLY:HA3	1.49	0.94
6:AE:86:GLN:HA	6:AE:95:THR:HG22	1.47	0.94
18:B3:445:U:OP1	40:BU:14:LYS:HG3	1.67	0.94
18:B3:501:G:O2'	33:BN:15:SER:N	2.00	0.94
18:B3:516:A:C1'	18:B3:1340:G:H5"	1.95	0.94
18:B3:1786:C:C4	18:B3:2883:A:H4'	2.01	0.94
18:B3:2100:A:O4'	23:BD:68:ARG:CD	2.15	0.94
18:B3:2345:A:C1'	29:BJ:23:GLY:N	2.22	0.94
18:B3:2415:A:C2	24:BE:35:ARG:CZ	2.49	0.94
18:B3:2737:C:C6	35:BP:60:SER:HB2	2.01	0.94
18:B3:2737:C:H6	35:BP:61:ARG:N	1.56	0.94
27:BH:11:GLU:HA	27:BH:52:LEU:CB	1.98	0.94
35:BP:16:VAL:HB	35:BP:20:LYS:CD	1.97	0.94
47:B9:48:ARG:HA	47:B9:54:TRP:CB	1.97	0.94
1:AA:43:C:O2'	1:AA:623:C:O2'	1.77	0.94
1:AA:99:C:H1'	1:AA:101:A:N6	1.81	0.94
1:AA:321:A:H5"	1:AA:1437:C:C5'	1.87	0.94
1:AA:1075:C:H5"	3:AB:102:THR:HA	1.49	0.94
1:AA:1151:A:C5	10:AJ:57:ARG:NH2	2.35	0.94
1:AA:1224:G:C3'	17:AS:122:THR:OG1	1.97	0.94
1:AA:1319:A:P	17:AS:84:ILE:HB	2.07	0.94
13:AM:92:ILE:HG13	13:AM:123:ARG:HH21	1.27	0.94
14:AN:37:ILE:H	14:AN:41:CYS:HB2	1.33	0.94
18:B3:282:C:H1'	18:B3:368:C:N4	1.82	0.94
18:B3:326:G:H1	18:B3:330:C:H5	1.03	0.94
18:B3:693:A:H4'	41:BV:59:TYR:HE1	1.30	0.94
18:B3:898:G:P	41:BV:25:ARG:HG3	2.06	0.94
18:B3:1133:A:N1	18:B3:2500:C:O2	1.98	0.94
18:B3:1164:U:H5	30:BK:49:ALA:C	1.69	0.94
18:B3:1311:G:O6	23:BD:185:LYS:C	2.05	0.94
18:B3:2061:C:H5'	42:B0:24:ARG:HD2	0.95	0.94
18:B3:2552:C:H5"	18:B3:2553:A:C2	1.95	0.94
18:B3:2652:U:O2	22:BC:257:ALA:HB1	0.76	0.94
26:BG:157:ASP:OD2	31:BL:40:ARG:CD	2.14	0.94
42:B0:19:ARG:HD3	42:B0:20:HIS:H	1.30	0.94
1:AA:111:G:N3	1:AA:389:A:C5'	2.29	0.94
1:AA:144:G:C2	1:AA:199:G:OP1	2.20	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:554:C:C6	12:AL:45:GLY:HA3	2.02	0.94
1:AA:778:G:O4'	11:AK:126:ARG:HD3	1.62	0.94
1:AA:1307:U:H5'	13:AM:144:ARG:HG2	1.48	0.94
5:AD:132:ARG:HB3	5:AD:140:ILE:HD11	1.48	0.94
18:B3:905:C:C5'	41:BV:11:ARG:CD	2.36	0.94
18:B3:1147:C:H2'	18:B3:1148:C:H5"	1.46	0.94
18:B3:1164:U:OP1	30:BK:50:THR:CA	2.16	0.94
18:B3:1348:A:O2'	23:BD:39:THR:CA	2.12	0.94
18:B3:1381:A:C8	43:BW:25:LYS:HD2	2.01	0.94
18:B3:1855:G:N1	21:BB:150:PRO:HD2	1.82	0.94
18:B3:2109:U:C6	41:BV:40:HIS:NE2	2.34	0.94
18:B3:2565:C:N3	27:BH:171:ASP:CG	2.20	0.94
18:B3:2678:A:HO2'	22:BC:13:LEU:HB2	1.28	0.94
24:BE:16:PHE:HA	36:BQ:19:PHE:HZ	1.22	0.94
25:BF:91:ILE:HG13	25:BF:99:ARG:HG3	1.46	0.94
39:BT:109:VAL:CB	39:BT:123:VAL:HG22	1.98	0.94
1:AA:1309:G:C4'	13:AM:91:ASP:HB2	1.97	0.94
10:AJ:32:LYS:HE3	10:AJ:32:LYS:HA	1.46	0.94
10:AJ:96:PRO:HA	10:AJ:99:ILE:HD11	1.50	0.94
18:B3:107:U:C2'	44:BX:56:THR:HG22	1.97	0.94
18:B3:500:G:H2'	33:BN:16:ALA:HB1	1.47	0.94
18:B3:1311:G:N7	23:BD:185:LYS:HB3	1.76	0.94
18:B3:1742:A:H5'	18:B3:2723:G:O3'	1.66	0.94
18:B3:2336:G:O3'	29:BJ:101:PHE:CG	2.21	0.94
18:B3:2737:C:C4	35:BP:61:ARG:NE	2.14	0.94
19:B4:99:U:O2'	25:BF:130:GLU:OE2	1.83	0.94
22:BC:71:VAL:H	37:BR:88:ARG:HA	1.30	0.94
35:BP:43:LEU:HG	35:BP:49:ILE:CG1	1.96	0.94
43:BW:58:ILE:HG23	43:BW:59:TRP:CD1	2.03	0.94
1:AA:59:A:H4'	1:AA:388:G:C1'	1.97	0.94
1:AA:143:A:OP2	1:AA:201:C:N1	2.00	0.94
1:AA:400:C:H5"	5:AD:77:ILE:HD12	0.94	0.94
1:AA:523:A:C2	12:AL:115:GLY:CA	2.50	0.94
1:AA:619:U:H6	5:AD:142:ASN:HB2	1.23	0.94
1:AA:958:A:C5	17:AS:101:ALA:CB	2.45	0.94
1:AA:958:A:N9	17:AS:101:ALA:HB1	1.82	0.94
1:AA:1220:G:N2	17:AS:102:PHE:HB3	1.81	0.94
4:AC:16:PHE:HB3	4:AC:76:PHE:CZ	2.03	0.94
5:AD:87:SER:HA	5:AD:93:LEU:HD13	1.49	0.94
18:B3:93:C:H5'	44:BX:42:PRO:HB2	1.46	0.94
18:B3:1875:A:C2'	21:BB:150:PRO:CG	2.41	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2081:A:C1'	32:BM:69:PRO:CG	2.45	0.94
18:B3:2436:U:O3'	46:BZ:79:ARG:O	1.84	0.94
18:B3:2705:U:H4'	27:BH:122:LYS:HZ1	1.22	0.94
18:B3:2721:U:H5'	38:BS:19:THR:HG21	1.50	0.94
18:B3:2826:G:H2'	22:BC:123:LYS:HA	1.47	0.94
19:B4:14:G:C2	24:BE:12:TYR:HA	1.98	0.94
19:B4:85:A:C4'	25:BF:228:PHE:CZ	2.50	0.94
19:B4:87:U:H6	25:BF:217:ARG:NH2	1.37	0.94
31:BL:66:ARG:HA	31:BL:126:TYR:CZ	2.03	0.94
34:BO:62:VAL:HG21	34:BO:87:VAL:HG23	1.48	0.94
41:BV:18:LYS:HE3	41:BV:20:ARG:HB2	1.46	0.94
43:BW:17:LYS:HD3	43:BW:66:VAL:HG11	1.50	0.94
1:AA:1179:A:OP2	9:AI:116:LEU:CB	2.14	0.94
1:AA:1320:C:C2	17:AS:119:PHE:HD1	1.84	0.94
2:AT:140:GLU:CB	2:AT:481:MET:N	2.31	0.94
4:AC:11:VAL:HG23	14:AN:33:TYR:O	1.67	0.94
4:AC:31:GLU:HG3	4:AC:57:VAL:HG23	1.47	0.94
4:AC:39:ARG:HE	10:AJ:110:PRO:HB3	1.30	0.94
18:B3:263:U:C4	26:BG:159:ILE:HG13	2.01	0.94
18:B3:706:G:N2	34:BO:72:LYS:HZ1	1.66	0.94
18:B3:1139:U:C5'	27:BH:62:ARG:CG	2.44	0.94
18:B3:1508:C:H5"	39:BT:78:GLY:H	1.23	0.94
18:B3:1739:G:H4'	18:B3:2726:U:H3	1.32	0.94
18:B3:2820:A:H5'	22:BC:90:GLY:CA	1.97	0.94
19:B4:51:A:N6	24:BE:59:ASP:N	2.03	0.94
20:BA:194:LEU:HD23	20:BA:200:ASN:HD21	1.33	0.94
21:BB:50:ASP:HB2	21:BB:53:ARG:CD	1.98	0.94
22:BC:41:ALA:CA	22:BC:182:LEU:HB3	1.98	0.94
22:BC:94:THR:HB	22:BC:95:PRO:HA	1.49	0.94
24:BE:16:PHE:HD1	36:BQ:19:PHE:CE1	1.85	0.94
25:BF:164:ASP:HB3	25:BF:180:ILE:HG23	1.48	0.94
26:BG:135:LEU:HD21	26:BG:165:LEU:HD21	1.47	0.94
28:BI:10:ARG:HB3	28:BI:10:ARG:HH11	1.33	0.94
40:BU:14:LYS:HD2	40:BU:17:LYS:CE	1.98	0.94
1:AA:6:G:C4'	1:AA:298:A:C3'	2.38	0.94
1:AA:125:U:C5'	1:AA:291:C:H4'	1.96	0.94
1:AA:190(E):U:OP1	16:AQ:130:ILE:CD1	2.10	0.94
1:AA:400:C:O3'	5:AD:77:ILE:CD1	2.15	0.94
1:AA:551:U:H4'	12:AL:107:PHE:CE2	2.03	0.94
1:AA:777:A:O2'	11:AK:126:ARG:N	1.99	0.94
1:AA:924:C:C1'	1:AA:1398:A:N3	2.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1179:A:P	9:AI:116:LEU:HD23	2.07	0.94
1:AA:1220:G:N3	17:AS:77:ARG:HB2	1.83	0.94
1:AA:1345:U:C2	7:AG:76:TYR:CD1	2.56	0.94
1:AA:1404:C:H2'	1:AA:1519:A:H4'	0.94	0.94
1:AA:1484:C:P	18:B3:2001:G:C2	2.56	0.94
2:AT:748:ASN:CB	18:B3:2508:C:H1'	1.95	0.94
4:AC:165:ASP:HB3	4:AC:167:ILE:HG12	1.48	0.94
9:AI:6:VAL:CG2	9:AI:21:VAL:HB	1.97	0.94
17:AS:64:LYS:HD2	17:AS:65:LEU:HD12	1.49	0.94
18:B3:500:G:N2	33:BN:96:ASN:HD21	1.52	0.94
18:B3:672:G:N9	23:BD:214:ILE:HG22	1.83	0.94
18:B3:721:A:H5"	34:BO:71:LEU:HB3	1.49	0.94
18:B3:924:G:O6	41:BV:41:ARG:CB	2.09	0.94
18:B3:1119:G:H5'	32:BM:48:ARG:HE	0.78	0.94
18:B3:1183:C:O2'	30:BK:85:LEU:CD1	2.16	0.94
18:B3:1267:C:H4'	42:B0:61:LYS:HZ3	1.25	0.94
18:B3:1806:G:C2	18:B3:2884:G:O4'	2.20	0.94
18:B3:2122:C:H4'	31:BL:86:GLN:OE1	1.68	0.94
18:B3:2333:G:N9	29:BJ:114:LYS:CG	2.20	0.94
18:B3:2809:G:H4'	22:BC:18:ARG:HH21	1.29	0.94
20:BA:9:VAL:HG21	20:BA:180:VAL:HG13	1.48	0.94
21:BB:62:PHE:HB2	21:BB:66:TYR:HD1	1.32	0.94
24:BE:16:PHE:CA	36:BQ:19:PHE:HE2	1.68	0.94
24:BE:23:ARG:CZ	24:BE:23:ARG:HA	1.97	0.94
28:BI:50:VAL:HG13	28:BI:166:ILE:HD11	1.49	0.94
31:BL:82:LYS:CE	46:BZ:49:PHE:CG	2.11	0.94
36:BQ:74:VAL:H	36:BQ:89:LEU:HB2	1.29	0.94
37:BR:95:PHE:CE2	38:BS:23:ARG:HG2	2.03	0.94
39:BT:75:VAL:HG13	39:BT:81:LEU:CD1	1.97	0.94
1:AA:190(D):U:N3	16:AQ:112:PRO:HD2	1.82	0.94
1:AA:436:C:H5"	1:AA:496:A:OP1	1.68	0.94
1:AA:1075:C:H5"	3:AB:102:THR:CA	1.98	0.94
1:AA:1299:A:H4'	13:AM:26:ILE:HG13	1.50	0.94
1:AA:1484:C:OP1	18:B3:2001:G:C2	2.20	0.94
6:AE:220:THR:OG1	8:AH:98:PHE:HD2	1.47	0.94
18:B3:1055:G:N3	28:BI:108:ALA:CB	2.30	0.94
18:B3:1055:G:H4'	28:BI:111:LEU:O	1.67	0.94
18:B3:1163:G:H5'	30:BK:54:LYS:HB2	1.47	0.94
18:B3:1235:G:O6	32:BM:69:PRO:CD	2.12	0.94
18:B3:1243:C:OP1	32:BM:42:ILE:HG22	1.66	0.94
18:B3:1673:U:H5"	39:BT:109:VAL:HG22	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2334:C:C1'	29:BJ:114:LYS:N	2.31	0.94
18:B3:2424:U:H5"	36:BQ:7:TYR:CD2	2.02	0.94
18:B3:2460:A:H5'	46:BZ:61:ALA:HA	1.50	0.94
18:B3:2668:G:C4'	22:BC:128:ALA:HB1	1.98	0.94
18:B3:2768:A:H2'	18:B3:2769:C:O4'	1.66	0.94
19:B4:85:A:O4'	25:BF:228:PHE:HZ	1.51	0.94
19:B4:119:C:H1'	24:BE:73:VAL:N	1.80	0.94
22:BC:157:VAL:CG1	22:BC:182:LEU:HD21	1.98	0.94
28:BI:69:ARG:CZ	28:BI:70:ILE:HG23	1.98	0.94
32:BM:11:LYS:HD3	32:BM:36:ARG:HH11	1.33	0.94
32:BM:19:ALA:HB1	32:BM:83:LEU:HD23	1.50	0.94
34:BO:69:ARG:HH12	34:BO:92:ARG:HD3	1.32	0.94
1:AA:358:U:O2'	2:AT:391:LYS:N	1.91	0.94
1:AA:538:G:P	12:AL:142:LYS:CG	2.55	0.94
1:AA:988:G:H5"	1:AA:1013:G:O3'	1.65	0.94
1:AA:1329:A:O4'	13:AM:98:TYR:HD1	1.48	0.94
1:AA:1503:A:O2'	1:AA:1507:A:OP1	1.86	0.94
3:AB:141:PRO:HG3	8:AH:68:LEU:CD2	1.97	0.94
6:AE:107:ASN:CG	6:AE:143:TRP:N	2.17	0.94
9:AI:34:PRO:HG2	9:AI:37:LEU:HB2	1.48	0.94
18:B3:52:A:C8	18:B3:121:U:O2	2.20	0.94
18:B3:537:G:C2'	42:B0:41:VAL:CG1	2.45	0.94
18:B3:541:C:OP2	42:B0:16:LYS:C	2.07	0.94
18:B3:706:G:H1	34:BO:72:LYS:HZ3	1.03	0.94
18:B3:749:C:O2'	23:BD:113:ASN:CG	2.04	0.94
18:B3:1164:U:H2'	30:BK:51:LYS:HB3	1.45	0.94
18:B3:1245:C:N4	32:BM:124:ARG:HD2	1.82	0.94
18:B3:1286:A:P	25:BF:155:ILE:CG2	2.54	0.94
18:B3:1311:G:O6	23:BD:186:LEU:N	1.99	0.94
18:B3:1861:C:C4'	21:BB:7:GLN:HA	1.98	0.94
18:B3:2136:G:N1	18:B3:2238:A:N6	2.15	0.94
18:B3:2222:C:C5'	20:BA:215:ARG:NH2	2.30	0.94
18:B3:2460:A:OP2	46:BZ:66:LYS:NZ	2.00	0.94
22:BC:356:LYS:HG3	22:BC:357:TRP:CD1	2.03	0.94
31:BL:22:GLN:HA	31:BL:25:ARG:HG3	1.49	0.94
32:BM:17:ARG:HB2	32:BM:121:GLN:HG2	1.50	0.94
35:BP:44:VAL:HA	35:BP:49:ILE:HB	1.49	0.94
36:BQ:11:THR:HG23	36:BQ:12:ARG:H	1.33	0.94
1:AA:6:G:H4'	1:AA:298:A:O3'	0.77	0.93
1:AA:121:C:C2	1:AA:235:C:N4	2.35	0.93
1:AA:1075:C:C5'	3:AB:103:PRO:CD	2.21	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1220:G:H5'	17:AS:59:LYS:HB2	1.48	0.93
1:AA:1249:C:H1'	9:AI:73:HIS:ND1	1.82	0.93
1:AA:1301:U:OP2	13:AM:40:ARG:HG2	1.67	0.93
1:AA:1505:G:C5'	1:AA:1506:U:O2	2.02	0.93
3:AB:153:GLU:OE1	8:AH:19:THR:C	2.00	0.93
18:B3:620:A:C3'	42:B0:40:SER:CB	2.46	0.93
18:B3:1708:C:H5	35:BP:81:LYS:CG	1.76	0.93
19:B4:8:G:C5	24:BE:21:ARG:HD3	2.03	0.93
19:B4:68:G:H22	24:BE:11:ALA:CB	1.73	0.93
19:B4:85:A:O2'	25:BF:228:PHE:HE1	1.42	0.93
20:BA:32:VAL:HG13	20:BA:169:VAL:HG23	1.50	0.93
21:BB:180:LYS:HE2	21:BB:181:ALA:CB	1.98	0.93
23:BD:177:LEU:HB3	23:BD:205:LEU:HD21	1.48	0.93
31:BL:154:VAL:CG1	31:BL:158:ARG:HA	1.98	0.93
1:AA:125:U:H4'	1:AA:291:C:H4'	1.45	0.93
1:AA:131:C:H4'	1:AA:264:U:H4'	0.95	0.93
1:AA:553:A:H2'	12:AL:45:GLY:N	1.82	0.93
1:AA:1406:U:C2	1:AA:1518:A:O4'	2.21	0.93
10:AJ:72:ASN:OD1	14:AN:25:SER:O	1.87	0.93
18:B3:25:A:N3	18:B3:1320:U:H4'	1.83	0.93
18:B3:35:U:C4'	23:BD:104:THR:OG1	2.16	0.93
18:B3:170:U:C6	46:BZ:49:PHE:CE2	2.55	0.93
18:B3:922:A:P	41:BV:41:ARG:HE	1.81	0.93
18:B3:1183:C:O3'	30:BK:85:LEU:CD1	2.16	0.93
18:B3:1350:U:H6	23:BD:43:LYS:HD2	1.16	0.93
18:B3:1352:A:H4'	23:BD:102:THR:CB	1.97	0.93
18:B3:1735:C:H5"	22:BC:244:GLY:HA2	1.50	0.93
18:B3:2215:A:H5'	20:BA:107:TYR:CD2	1.94	0.93
18:B3:2336:G:N7	29:BJ:118:SER:CB	2.32	0.93
18:B3:2565:C:N4	27:BH:171:ASP:CB	2.31	0.93
21:BB:56:PRO:CD	47:B9:51:ALA:CB	2.46	0.93
32:BM:39:GLU:HA	32:BM:137:LEU:HD23	1.50	0.93
32:BM:63:PHE:CD2	32:BM:64:ASN:HB2	2.03	0.93
35:BP:61:ARG:HA	35:BP:61:ARG:CZ	1.98	0.93
37:BR:95:PHE:HB3	38:BS:22:VAL:HG12	0.96	0.93
1:AA:190(C):C:N4	16:AQ:112:PRO:HD3	1.84	0.93
1:AA:318:G:O4'	1:AA:1468:A:H4'	1.67	0.93
1:AA:402:G:C4'	1:AA:620:C:H2'	1.97	0.93
1:AA:553:A:P	12:AL:40:SER:CB	2.56	0.93
1:AA:985:C:C4	17:AS:77:ARG:NH2	2.36	0.93
1:AA:988:G:C4	1:AA:1015:A:C5	2.55	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1298:C:P	13:AM:55:HIS:O	2.27	0.93
2:AT:466:THR:CG2	2:AT:516:PRO:HG3	1.99	0.93
3:AB:140:ILE:C	8:AH:68:LEU:HD11	1.87	0.93
18:B3:99:A:N6	40:BU:24:SER:O	2.01	0.93
18:B3:782:G:H5"	21:BB:189:ARG:NH1	1.84	0.93
18:B3:1900:A:H5"	21:BB:238:ALA:HB1	1.51	0.93
18:B3:2460:A:H5"	46:BZ:61:ALA:CA	1.98	0.93
18:B3:2820:A:C5'	22:BC:90:GLY:H	1.81	0.93
20:BA:53:LEU:HD22	20:BA:189:PHE:CE1	2.02	0.93
23:BD:245:ARG:HA	23:BD:245:ARG:CZ	1.98	0.93
24:BE:16:PHE:CD1	36:BQ:19:PHE:HZ	1.78	0.93
24:BE:106:ALA:HB1	24:BE:110:LEU:HD22	1.50	0.93
25:BF:152:PHE:H	25:BF:162:LEU:HG	1.32	0.93
27:BH:20:ILE:HG13	27:BH:25:VAL:H	1.33	0.93
42:B0:79:VAL:CG2	42:B0:109:LEU:HD22	1.98	0.93
1:AA:55:A:H2	2:AT:67:GLY:C	1.66	0.93
1:AA:190(D):U:N3	16:AQ:112:PRO:CD	2.31	0.93
18:B3:251:C:O2'	31:BL:139:LYS:HE2	1.68	0.93
18:B3:764:C:C1'	23:BD:86:GLN:CG	2.46	0.93
18:B3:764:C:OP1	23:BD:98:MET:CG	2.15	0.93
18:B3:1167:G:O2'	30:BK:110:ILE:O	1.85	0.93
18:B3:1358:A:C2'	23:BD:92:MET:HG2	1.96	0.93
18:B3:2214:A:C2	20:BA:105:LYS:NZ	2.34	0.93
18:B3:2222:C:H5"	20:BA:215:ARG:NH2	1.83	0.93
18:B3:2244:A:H5"	31:BL:27:TRP:HH2	1.15	0.93
18:B3:2546:U:O2'	22:BC:246:ARG:NH2	2.02	0.93
30:BK:113:ALA:HB1	30:BK:128:VAL:HG23	1.48	0.93
36:BQ:75:ILE:HB	36:BQ:89:LEU:HA	1.50	0.93
1:AA:121:C:C6	1:AA:235:C:N4	2.29	0.93
1:AA:134:A:N3	1:AA:325:A:C4'	2.24	0.93
1:AA:678:U:H2'	11:AK:125:THR:HB	1.47	0.93
1:AA:778:G:O4'	11:AK:126:ARG:CD	2.07	0.93
1:AA:1177:G:H4'	9:AI:105:LYS:CE	1.98	0.93
1:AA:1221:G:O2'	17:AS:101:ALA:O	1.85	0.93
2:AT:465:LYS:HZ1	2:AT:511:LEU:CB	1.82	0.93
18:B3:537:G:O3'	42:B0:21:HIS:CD2	2.21	0.93
18:B3:634:G:O2'	23:BD:91:ASN:ND2	2.02	0.93
18:B3:1167:G:N3	30:BK:110:ILE:HG21	1.83	0.93
18:B3:1335:C:H3'	42:B0:98:HIS:HA	1.49	0.93
18:B3:1809:G:N3	18:B3:2732:U:H5'	1.83	0.93
18:B3:2336:G:N7	29:BJ:118:SER:HB2	1.83	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2413:A:H2	24:BE:145:PHE:CD2	1.87	0.93
18:B3:2653:A:H5'	22:BC:257:ALA:N	1.83	0.93
18:B3:2737:C:C5	35:BP:61:ARG:HE	1.26	0.93
19:B4:69:U:C2'	24:BE:14:SER:OG	2.16	0.93
19:B4:69:U:H5'	24:BE:13:SER:CB	1.81	0.93
22:BC:228:VAL:HG23	22:BC:234:THR:HG21	1.51	0.93
23:BD:207:VAL:HG12	23:BD:247:VAL:HA	1.46	0.93
26:BG:113:ALA:HB1	26:BG:151:LEU:HD22	1.51	0.93
29:BJ:162:PHE:HA	29:BJ:165:LYS:HD3	1.50	0.93
32:BM:7:VAL:CB	32:BM:115:LYS:HG2	1.97	0.93
39:BT:87:MET:HA	39:BT:119:LYS:CG	1.98	0.93
46:BZ:68:VAL:HG13	46:BZ:69:LEU:H	1.33	0.93
1:AA:70:G:H21	1:AA:101:A:H61	1.01	0.93
1:AA:1117:G:O2'	9:AI:120:SER:CA	2.15	0.93
1:AA:1501:C:OP1	1:AA:1508:G:C1'	1.79	0.93
9:AI:96:VAL:HG11	9:AI:100:SER:HB2	1.49	0.93
11:AK:26:PHE:CE1	11:AK:39:ALA:HB1	2.02	0.93
12:AL:107:PHE:HB3	12:AL:123:LYS:HD2	1.47	0.93
17:AS:80:MET:CE	17:AS:83:MET:HB2	1.99	0.93
18:B3:27:U:C4'	18:B3:1319:G:O4'	2.09	0.93
18:B3:1180:C:C2	30:BK:110:ILE:CD1	2.51	0.93
18:B3:1235:G:C6	32:BM:69:PRO:HD3	1.95	0.93
18:B3:1380:U:H3'	43:BW:25:LYS:NZ	1.84	0.93
18:B3:1652:C:H5'	21:BB:174:VAL:HG13	1.51	0.93
18:B3:1809:G:C4'	18:B3:2731:G:C5'	2.46	0.93
18:B3:1869:A:H2'	21:BB:192:ARG:HH22	1.29	0.93
18:B3:2275:G:C5'	31:BL:78:ALA:HA	1.99	0.93
18:B3:2408:A:O2'	46:BZ:19:HIS:CG	2.22	0.93
18:B3:2442:G:C5'	41:BV:60:PHE:HE2	1.81	0.93
18:B3:2806:C:O3'	22:BC:343:THR:OG1	1.85	0.93
22:BC:52:MET:HB2	22:BC:76:THR:HA	1.48	0.93
26:BG:162:VAL:HA	26:BG:165:LEU:HD23	1.51	0.93
29:BJ:53:VAL:CB	29:BJ:56:PHE:HB2	1.97	0.93
31:BL:25:ARG:HD2	31:BL:26:VAL:HB	1.50	0.93
36:BQ:57:TYR:HD2	36:BQ:76:ILE:HG21	1.32	0.93
37:BR:85:TRP:HB3	37:BR:86:ARG:CD	1.98	0.93
1:AA:21:G:O3'	1:AA:885:G:OP2	1.85	0.93
1:AA:66:G:C6	1:AA:69:G:O6	2.21	0.93
1:AA:359:U:H5'	2:AT:391:LYS:HA	0.94	0.93
1:AA:860:A:O2'	8:AH:18:LYS:NZ	2.00	0.93
1:AA:1219:U:H2'	17:AS:78:THR:CB	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1299:A:HO2'	13:AM:30:TYR:CB	1.78	0.93
1:AA:1329:A:N6	13:AM:94:ASP:C	2.05	0.93
11:AK:37:THR:CG2	11:AK:73:VAL:HG21	1.98	0.93
18:B3:1099:G:H3'	19:B4:87:U:H3	1.31	0.93
18:B3:1381:A:H8	43:BW:25:LYS:CD	1.75	0.93
18:B3:1673:U:H5'	39:BT:109:VAL:HG13	1.50	0.93
18:B3:2165:G:O2'	20:BA:33:GLU:HG3	1.67	0.93
18:B3:2468:A:N1	46:BZ:54:LYS:HB3	1.59	0.93
18:B3:2579:G:H5'	18:B3:2680:A:C4'	1.98	0.93
18:B3:2722:G:H5'	37:BR:94:TYR:CE2	2.03	0.93
18:B3:2736:U:C2'	35:BP:61:ARG:HB2	1.97	0.93
20:BA:60:ARG:HG3	20:BA:61:PRO:HD3	1.49	0.93
24:BE:30:TYR:CE1	24:BE:33:ARG:HD3	2.04	0.93
27:BH:57:VAL:HG11	32:BM:126:LEU:CG	1.99	0.93
27:BH:116:ASN:CB	27:BH:119:GLY:HA2	1.97	0.93
33:BN:26:LYS:H	33:BN:28:THR:HG22	1.34	0.93
33:BN:134:ARG:HA	33:BN:134:ARG:CZ	1.98	0.93
40:BU:57:LEU:CG	40:BU:105:VAL:HB	1.99	0.93
1:AA:363:A:OP1	12:AL:76:LEU:O	1.87	0.93
2:AT:108:HIS:HA	2:AT:536:LEU:CD2	1.98	0.93
6:AE:204:ARG:CD	6:AE:207:GLU:HB2	1.98	0.93
9:AI:8:THR:CG2	9:AI:19:ALA:HB3	1.99	0.93
18:B3:100:C:N1	40:BU:24:SER:HB2	1.82	0.93
18:B3:678:G:C5'	23:BD:256:LYS:HB3	1.97	0.93
18:B3:710:G:C5'	34:BO:44:PHE:HE2	1.81	0.93
18:B3:1054:G:P	28:BI:110:ARG:HH21	1.91	0.93
18:B3:1055:G:C1'	28:BI:111:LEU:CB	2.46	0.93
18:B3:1206:C:N3	18:B3:1207:A:N3	2.16	0.93
18:B3:1309:U:H5	23:BD:202:ARG:O	1.41	0.93
18:B3:2093:G:HO2'	22:BC:253:ALA:HB3	1.28	0.93
18:B3:2123:A:O5'	31:BL:88:VAL:HG21	1.65	0.93
18:B3:2165:G:C1'	20:BA:207:LYS:HE3	1.99	0.93
18:B3:2345:A:O5'	29:BJ:22:VAL:HG11	1.69	0.93
18:B3:2350:G:H22	29:BJ:116:ASP:HB2	1.26	0.93
18:B3:2663:U:N1	18:B3:2816:A:C6	2.11	0.93
20:BA:108:ASN:ND2	20:BA:162:VAL:CB	2.32	0.93
20:BA:108:ASN:HD21	20:BA:162:VAL:CB	1.81	0.93
27:BH:26:LYS:HE3	27:BH:26:LYS:H	1.34	0.93
31:BL:189:THR:HG23	31:BL:194:ASN:HA	1.47	0.93
33:BN:115:HIS:CB	33:BN:148:VAL:HG21	1.97	0.93
34:BO:104:LEU:HD22	34:BO:105:ARG:HE	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:85:TRP:HE3	37:BR:86:ARG:HD2	1.33	0.93
1:AA:499:A:O3'	1:AA:500:G:H5"	1.68	0.93
1:AA:560:U:O2'	1:AA:563:A:C8	2.19	0.93
1:AA:597:G:N2	8:AH:88:TRP:HZ2	1.65	0.93
1:AA:619:U:O3'	5:AD:129:ILE:CD1	2.17	0.93
12:AL:74:VAL:HG21	12:AL:104:LEU:HD21	1.50	0.93
18:B3:907:A:H8	18:B3:1328:A:H1'	1.17	0.93
18:B3:919:U:N3	41:BV:41:ARG:HB3	1.84	0.93
18:B3:1306:U:H5	23:BD:194:ARG:NH2	1.62	0.93
18:B3:1335:C:OP1	42:B0:96:ILE:HG13	1.69	0.93
18:B3:1751:G:H2'	18:B3:1752:G:H5"	1.51	0.93
19:B4:86:G:C4	25:BF:220:LYS:CG	2.49	0.93
20:BA:190:PHE:CE2	20:BA:200:ASN:HB2	2.04	0.93
22:BC:71:VAL:N	37:BR:88:ARG:HA	1.81	0.93
22:BC:231:ARG:HA	22:BC:269:ARG:HH12	1.30	0.93
23:BD:24:VAL:CG2	23:BD:122:ALA:HB1	1.98	0.93
26:BG:149:LEU:HD21	26:BG:210:LEU:HD11	1.51	0.93
33:BN:137:LYS:HD2	33:BN:137:LYS:H	1.33	0.93
40:BU:31:LEU:HD12	40:BU:74:TYR:CD2	2.04	0.93
40:BU:35:LEU:HD21	40:BU:45:ILE:HG22	1.51	0.93
43:BW:77:LYS:H	43:BW:82:GLU:HG2	1.34	0.93
1:AA:59:A:C5'	1:AA:388:G:C5	2.50	0.93
1:AA:581:G:OP1	15:AO:119:SER:OG	1.86	0.93
1:AA:1179:A:P	9:AI:116:LEU:HG	2.09	0.93
1:AA:1224:G:OP2	13:AM:139:LYS:CE	2.17	0.93
1:AA:1330:U:O2	13:AM:93:THR:HB	1.69	0.93
9:AI:13:LYS:HE3	9:AI:75:SER:HA	1.49	0.93
10:AJ:78:THR:CB	14:AN:39:ARG:NE	2.05	0.93
18:B3:890:C:O2	45:BY:48:TRP:O	1.86	0.93
18:B3:1163:G:H5"	30:BK:54:LYS:HD3	1.48	0.93
18:B3:1383:U:C2'	43:BW:29:PRO:HA	1.85	0.93
18:B3:1652:C:C6	21:BB:174:VAL:CG2	2.52	0.93
18:B3:1939:U:H4'	21:BB:241:ARG:CG	1.99	0.93
18:B3:2264:A:H5"	31:BL:92:LYS:HZ1	1.30	0.93
19:B4:50:G:C6	24:BE:58:LYS:N	2.35	0.93
19:B4:118:C:C4'	24:BE:68:THR:HG22	1.95	0.93
22:BC:189:GLU:CB	22:BC:190:LYS:HE2	1.99	0.93
22:BC:310:PHE:CE1	22:BC:363:LYS:HB3	2.03	0.93
29:BJ:141:LYS:HA	29:BJ:144:LYS:HE2	1.50	0.93
37:BR:114:ILE:HD11	37:BR:133:SER:HA	1.48	0.93
1:AA:124:G:H5'	1:AA:289:G:C2	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:293:G:H5'	1:AA:610:G:C2	2.04	0.92
1:AA:363:A:C3'	12:AL:77:ILE:CD1	2.41	0.92
1:AA:664:G:H22	1:AA:741:G:H1	1.15	0.92
1:AA:920:U:O4'	1:AA:1080:A:C1'	2.09	0.92
1:AA:947:G:H3'	13:AM:143:ARG:NE	1.83	0.92
1:AA:1086:U:H3	1:AA:1099:G:H22	1.07	0.92
2:AT:685:ARG:HE	2:AT:687:ASN:HD21	1.14	0.92
6:AE:220:THR:OG1	8:AH:98:PHE:CD2	1.92	0.92
10:AJ:70:THR:O	14:AN:39:ARG:HA	1.27	0.92
11:AK:15:VAL:HB	11:AK:30:THR:HG22	1.49	0.92
13:AM:92:ILE:HG13	13:AM:123:ARG:HH22	1.31	0.92
18:B3:145:A:C4'	31:BL:137:GLN:NE2	2.31	0.92
18:B3:750:A:O4'	23:BD:116:GLU:OE1	1.86	0.92
18:B3:772:G:N3	45:BY:46:TYR:OH	1.92	0.92
18:B3:1163:G:O6	30:BK:51:LYS:HE3	1.69	0.92
18:B3:1163:G:O3'	30:BK:50:THR:O	1.84	0.92
18:B3:1446:U:P	39:BT:70:THR:HB	2.09	0.92
18:B3:1706:G:OP1	35:BP:65:HIS:CD2	2.22	0.92
18:B3:2264:A:H5"	31:BL:92:LYS:HZ2	1.12	0.92
18:B3:2545:U:O2'	22:BC:238:PRO:HG2	1.67	0.92
19:B4:37:C:O2'	24:BE:154:THR:C	1.98	0.92
24:BE:42:ALA:HA	24:BE:49:TYR:CE1	2.04	0.92
26:BG:132:LYS:HG3	26:BG:141:LEU:HD23	1.50	0.92
33:BN:111:LEU:HG	33:BN:150:THR:HB	1.50	0.92
35:BP:51:LYS:HE2	35:BP:52:LYS:CE	1.99	0.92
41:BV:131:LYS:HA	41:BV:131:LYS:HE2	1.47	0.92
42:B0:105:ARG:HA	42:B0:105:ARG:CZ	1.98	0.92
43:BW:58:ILE:HG13	43:BW:59:TRP:CE2	2.03	0.92
1:AA:131:C:O4'	1:AA:264:U:H1'	1.37	0.92
1:AA:143:A:C8	1:AA:200:G:C2'	2.52	0.92
1:AA:190(E):U:C4'	16:AQ:109:HIS:CD2	2.26	0.92
1:AA:293:G:C5'	1:AA:610:G:C4	2.49	0.92
1:AA:359:U:C5'	2:AT:391:LYS:HA	1.83	0.92
1:AA:363:A:O2'	12:AL:49:ALA:HA	1.66	0.92
1:AA:985:C:N3	17:AS:77:ARG:NH2	2.16	0.92
1:AA:1177:G:H5"	9:AI:105:LYS:HD2	0.95	0.92
1:AA:1223:C:H5'	17:AS:100:LYS:HD2	1.49	0.92
1:AA:1227:A:P	17:AS:125:PRO:HB3	2.08	0.92
18:B3:124:C:OP2	39:BT:88:LYS:HA	1.68	0.92
18:B3:539:G:C6	42:B0:50:ILE:HD13	2.05	0.92
18:B3:634:G:O3'	23:BD:91:ASN:ND2	2.01	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:843:A:H5"	33:BN:130:ARG:HG3	1.50	0.92
18:B3:1183:C:O2'	30:BK:85:LEU:CA	2.17	0.92
18:B3:1675:C:OP2	39:BT:120:LYS:N	2.01	0.92
18:B3:2166:G:O6	20:BA:61:PRO:HG3	1.68	0.92
18:B3:2717:C:C2'	18:B3:2718:C:H5"	2.00	0.92
18:B3:2796:U:O2'	27:BH:127:PRO:HD2	1.69	0.92
19:B4:5:G:H3'	24:BE:27:LYS:NZ	1.84	0.92
21:BB:171:GLY:N	47:B9:67:ALA:HB2	1.84	0.92
27:BH:64:HIS:ND1	32:BM:127:ARG:HB3	1.84	0.92
29:BJ:140:ARG:CZ	29:BJ:140:ARG:HA	1.97	0.92
31:BL:25:ARG:HD2	31:BL:26:VAL:CB	1.99	0.92
34:BO:59:ARG:HD3	34:BO:85:GLY:HA2	1.50	0.92
1:AA:335:C:C2'	1:AA:1433:A:C2'	2.46	0.92
1:AA:1220:G:H21	17:AS:102:PHE:HB3	1.33	0.92
1:AA:1329:A:C2	13:AM:94:ASP:O	2.22	0.92
1:AA:1344:C:OP1	9:AI:136:ARG:NE	1.98	0.92
4:AC:6:LYS:HA	4:AC:6:LYS:HE3	1.48	0.92
4:AC:114:ILE:HG21	4:AC:141:LEU:HG	1.48	0.92
13:AM:117:LYS:HB3	13:AM:128:PHE:HE1	1.33	0.92
17:AS:64:LYS:CD	17:AS:65:LEU:HD12	1.99	0.92
18:B3:67:A:OP1	44:BX:56:THR:HG23	1.69	0.92
18:B3:897:A:P	41:BV:26:LYS:CG	2.57	0.92
18:B3:1056:U:H4'	28:BI:8:CYS:HB3	0.94	0.92
18:B3:1181:A:C4	30:BK:107:ASP:N	2.34	0.92
18:B3:1794:G:HO2'	35:BP:96:ARG:HD3	1.25	0.92
18:B3:1882:C:OP1	21:BB:200:GLY:CA	2.18	0.92
22:BC:40:VAL:HG11	22:BC:43:THR:HA	1.47	0.92
28:BI:152:LEU:HA	28:BI:155:ALA:CB	1.98	0.92
35:BP:31:ILE:CG2	35:BP:49:ILE:HD11	1.99	0.92
1:AA:335:C:C2'	1:AA:1434:A:C8	2.48	0.92
1:AA:402:G:C5'	5:AD:108:ARG:HH22	1.82	0.92
1:AA:728:A:N6	15:AO:108:LYS:NZ	2.17	0.92
2:AT:140:GLU:N	2:AT:481:MET:CG	2.29	0.92
5:AD:113:VAL:CG2	5:AD:125:ALA:HB1	1.99	0.92
13:AM:35:ILE:HB	13:AM:38:VAL:CG1	1.99	0.92
18:B3:170:U:H6	46:BZ:49:PHE:HZ	1.15	0.92
18:B3:496:G:N2	18:B3:1427:A:OP2	2.02	0.92
18:B3:944:G:O4'	25:BF:100:LYS:HE2	1.70	0.92
18:B3:1348:A:O2'	23:BD:38:PHE:C	2.06	0.92
18:B3:2081:A:H1'	32:BM:69:PRO:HG3	1.48	0.92
18:B3:2345:A:P	29:BJ:22:VAL:CG1	2.56	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2363:G:H22	36:BQ:8:ARG:CD	1.83	0.92
19:B4:118:C:H4'	24:BE:68:THR:HG22	1.49	0.92
22:BC:46:LEU:HD12	22:BC:80:THR:HG21	1.49	0.92
22:BC:311:VAL:HG12	22:BC:312:HIS:H	1.30	0.92
25:BF:99:ARG:H	25:BF:102:LEU:HD13	1.34	0.92
27:BH:54:LYS:HD3	27:BH:72:LYS:CE	1.99	0.92
37:BR:59:MET:HA	37:BR:74:MET:HG3	1.50	0.92
39:BT:80:ILE:HG22	39:BT:124:ARG:HA	1.49	0.92
40:BU:50:ILE:CD1	40:BU:104:LEU:HD11	2.00	0.92
1:AA:68:G:O3'	1:AA:171:A:O4'	1.68	0.92
2:AT:140:GLU:CG	2:AT:481:MET:HA	1.98	0.92
9:AI:51:LEU:HD21	9:AI:84:ILE:CG1	1.98	0.92
18:B3:53:C:H5'	18:B3:121:U:H3'	0.93	0.92
18:B3:953:G:H3'	36:BQ:13:TYR:CD2	2.05	0.92
18:B3:1003:U:OP1	28:BI:90:ARG:HD3	1.65	0.92
18:B3:1676:G:C4'	39:BT:115:PRO:CD	2.26	0.92
18:B3:2346:C:O2'	29:BJ:66:VAL:O	1.84	0.92
18:B3:2652:U:C2'	22:BC:257:ALA:HB2	1.98	0.92
18:B3:2822:C:C5'	22:BC:133:SER:OG	2.18	0.92
22:BC:49:LYS:CE	22:BC:332:LYS:HA	1.98	0.92
24:BE:157:ALA:HB3	24:BE:160:PHE:CD2	2.04	0.92
43:BW:77:LYS:CE	43:BW:79:ASN:HB2	1.99	0.92
1:AA:129(A):G:H2'	16:AQ:125:GLY:O	1.70	0.92
1:AA:335:C:H2'	1:AA:1433:A:C2'	1.99	0.92
1:AA:363:A:H3'	12:AL:77:ILE:HD11	0.92	0.92
1:AA:404:U:C2	5:AD:19:TYR:CE2	2.58	0.92
1:AA:554:C:C1'	12:AL:45:GLY:CA	2.34	0.92
1:AA:667:G:H1'	15:AO:109:ASP:OD1	1.69	0.92
1:AA:1086:U:O3'	1:AA:1389:C:H4'	1.70	0.92
2:AT:465:LYS:HZ1	2:AT:511:LEU:CG	1.81	0.92
18:B3:678:G:C8	23:BD:259:GLN:CD	2.42	0.92
18:B3:1003:U:P	28:BI:90:ARG:CZ	2.58	0.92
18:B3:1127:C:O2'	18:B3:2492:U:C5'	2.17	0.92
18:B3:1674:C:OP1	39:BT:121:ALA:HB2	0.74	0.92
18:B3:1939:U:H4'	21:BB:241:ARG:HG3	1.50	0.92
18:B3:2737:C:H5	35:BP:61:ARG:CZ	1.83	0.92
18:B3:2762:C:H1'	37:BR:83:LYS:HD2	1.50	0.92
19:B4:35:C:N4	24:BE:95:TRP:CH2	2.36	0.92
20:BA:205:VAL:CG1	20:BA:213:ALA:HB1	2.00	0.92
25:BF:95:PRO:HG2	25:BF:98:PRO:HG2	1.51	0.92
25:BF:126:LEU:HB3	25:BF:135:TYR:CE1	2.04	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:28:ALA:HA	43:BW:59:TRP:CE2	2.05	0.92
1:AA:187:C:OP1	1:AA:258:G:OP1	1.86	0.92
1:AA:621:A:O3'	5:AD:78:ARG:CD	2.16	0.92
1:AA:950:U:OP2	13:AM:140:THR:OG1	1.86	0.92
1:AA:1329:A:C5'	13:AM:98:TYR:CE2	2.52	0.92
1:AA:1348:U:O3'	9:AI:134:ARG:CB	2.16	0.92
2:AT:463:LEU:CA	2:AT:513:LYS:HZ3	1.69	0.92
5:AD:157:ASP:HB3	5:AD:160:PRO:HG2	1.52	0.92
18:B3:796:A:H4'	47:B9:12:LYS:HA	1.50	0.92
18:B3:898:G:P	41:BV:25:ARG:CG	2.58	0.92
18:B3:1316:G:OP1	42:B0:102:ALA:CA	2.17	0.92
19:B4:10:C:H41	36:BQ:26:HIS:HE2	1.02	0.92
19:B4:34:A:H61	24:BE:95:TRP:HE3	1.07	0.92
22:BC:219:VAL:HG13	22:BC:272:HIS:N	1.84	0.92
27:BH:41:ILE:H	32:BM:125:VAL:CG1	1.77	0.92
34:BO:106:PHE:CD2	34:BO:111:ARG:HB3	2.04	0.92
1:AA:1016:A:C1'	1:AA:1216:G:H22	1.82	0.92
2:AT:464:LEU:HD22	2:AT:510:ARG:HG2	0.93	0.92
9:AI:28:ILE:HG23	9:AI:64:ILE:HG23	1.50	0.92
18:B3:35:U:H5'	23:BD:49:TYR:HA	1.49	0.92
18:B3:1139:U:H4'	27:BH:62:ARG:CG	1.99	0.92
18:B3:1309:U:O3'	23:BD:204:PRO:N	1.98	0.92
18:B3:1812:G:C4'	18:B3:2732:U:O2'	2.18	0.92
18:B3:2093:G:N2	22:BC:257:ALA:CA	2.09	0.92
18:B3:2346:C:O4'	29:BJ:64:ILE:CG1	2.17	0.92
18:B3:2415:A:C1'	24:BE:39:GLN:OE1	2.07	0.92
18:B3:2415:A:N1	24:BE:35:ARG:NE	2.16	0.92
18:B3:2460:A:H1'	46:BZ:59:LYS:HB3	0.94	0.92
18:B3:2712:G:O3'	37:BR:44:SER:N	1.79	0.92
18:B3:2796:U:H5"	27:BH:129:ARG:NH1	1.85	0.92
18:B3:2837:U:O2	22:BC:334:ILE:HB	1.68	0.92
19:B4:119:C:N1	24:BE:71:GLY:CA	2.32	0.92
46:BZ:67:VAL:CG1	46:BZ:69:LEU:HD22	2.00	0.92
1:AA:777:A:C5	11:AK:126:ARG:CZ	2.46	0.92
5:AD:69:ARG:HD2	5:AD:76:LEU:HD13	1.51	0.92
18:B3:145:A:C5'	31:BL:137:GLN:NE2	2.32	0.92
18:B3:772:G:H21	45:BY:48:TRP:HB3	1.35	0.92
18:B3:1682:A:H2	18:B3:1696:U:H3	1.05	0.92
18:B3:2167:A:H62	20:BA:60:ARG:HH21	1.12	0.92
18:B3:2820:A:H5'	22:BC:90:GLY:H	1.34	0.92
18:B3:2847:G:OP1	22:BC:174:LYS:NZ	2.03	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:88:ILE:HG22	24:BE:219:PHE:CZ	2.04	0.92
26:BG:150:VAL:HG23	26:BG:176:TYR:HB2	1.51	0.92
31:BL:122:GLN:HG3	31:BL:128:TYR:CD1	2.04	0.92
37:BR:34:LEU:HD13	37:BR:34:LEU:H	1.31	0.92
47:B9:16:ARG:HD3	47:B9:16:ARG:H	1.34	0.92
1:AA:65:U:O2'	1:AA:382:A:N6	2.03	0.92
1:AA:124:G:H5"	1:AA:290:C:C2	2.05	0.92
1:AA:989:C:H5'	1:AA:1013:G:C4	2.05	0.92
1:AA:1505:G:H5"	1:AA:1506:U:O2	1.19	0.92
4:AC:105:LYS:CE	4:AC:183:ILE:HB	2.00	0.92
13:AM:29:VAL:HG13	13:AM:43:SER:CB	2.00	0.92
18:B3:100:C:C2	40:BU:24:SER:HB2	2.05	0.92
18:B3:1118:A:C6	18:B3:1226:G:H3'	2.03	0.92
18:B3:1225:C:C4'	18:B3:1248:A:C2	2.40	0.92
18:B3:1228:C:O3'	32:BM:47:PHE:CD2	2.23	0.92
18:B3:2214:A:H2'	20:BA:106:LYS:CB	2.00	0.92
18:B3:2334:C:C1'	29:BJ:112:GLY:C	2.37	0.92
18:B3:2460:A:HO2'	46:BZ:60:LYS:HG3	1.17	0.92
31:BL:42:THR:CG2	31:BL:43:ARG:HD3	2.00	0.92
31:BL:70:ARG:HG2	31:BL:71:LYS:H	1.33	0.92
1:AA:292:G:O2'	1:AA:609:A:N7	2.03	0.91
1:AA:678:U:H2'	11:AK:125:THR:CG2	1.99	0.91
1:AA:989:C:H4'	1:AA:1013:G:H21	1.30	0.91
1:AA:1221:G:OP1	17:AS:81:ARG:CA	2.18	0.91
1:AA:1298:C:H3'	13:AM:57:ARG:NH2	1.84	0.91
1:AA:1309:G:N9	13:AM:92:ILE:CG1	1.86	0.91
1:AA:1345:U:C4	7:AG:76:TYR:CD1	2.58	0.91
2:AT:501:LEU:HD13	12:AL:99:ASN:HB2	1.52	0.91
2:AT:785:ARG:HE	18:B3:2697:A:H62	0.92	0.91
6:AE:155:THR:HA	8:AH:96:ARG:CB	2.00	0.91
6:AE:169:ILE:CG2	6:AE:196:TYR:HB3	1.99	0.91
9:AI:6:VAL:HG22	9:AI:21:VAL:HB	1.52	0.91
9:AI:28:ILE:HG12	9:AI:64:ILE:HG22	1.49	0.91
18:B3:538:C:O2'	42:B0:24:ARG:HB2	1.70	0.91
18:B3:1116:U:C2'	18:B3:1226:G:H8	1.79	0.91
18:B3:1160:G:N2	18:B3:1206:C:C5	2.37	0.91
18:B3:1285:U:H5"	25:BF:155:ILE:CG2	1.99	0.91
18:B3:1853:C:O4'	21:BB:237:ILE:CD1	2.17	0.91
18:B3:2048:C:H5'	33:BN:68:ARG:CD	2.00	0.91
18:B3:2166:G:O6	20:BA:61:PRO:CB	2.17	0.91
18:B3:2264:A:OP1	31:BL:92:LYS:NZ	2.02	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2413:A:C2	24:BE:145:PHE:CD2	2.59	0.91
18:B3:2734:G:P	35:BP:79:LYS:NZ	2.43	0.91
24:BE:51:LEU:HD13	24:BE:64:ILE:HD13	1.52	0.91
24:BE:188:GLU:HA	24:BE:198:TYR:CB	2.00	0.91
28:BI:152:LEU:H	28:BI:154:ARG:HH21	1.17	0.91
29:BJ:90:LEU:HD13	29:BJ:163:LYS:HE3	1.50	0.91
31:BL:34:VAL:CA	31:BL:64:ARG:HD3	2.00	0.91
40:BU:33:ALA:CB	40:BU:50:ILE:HD11	2.00	0.91
46:BZ:73:CYS:H	46:BZ:79:ARG:HG3	1.35	0.91
1:AA:1086:U:H5"	1:AA:1389:C:H5'	0.95	0.91
3:AB:47:ILE:CD1	3:AB:161:CYS:HA	1.99	0.91
12:AL:112:LYS:HE2	12:AL:121:ARG:CD	1.98	0.91
18:B3:898:G:OP2	41:BV:25:ARG:CG	2.17	0.91
18:B3:968:G:H5'	28:BI:35:ASP:OD2	1.69	0.91
18:B3:1674:C:C5'	39:BT:84:GLN:NE2	2.33	0.91
18:B3:2653:A:H5'	22:BC:257:ALA:H	1.33	0.91
19:B4:69:U:H5'	24:BE:13:SER:HB2	1.52	0.91
21:BB:195:TRP:CZ2	21:BB:197:LYS:HD2	2.05	0.91
24:BE:157:ALA:HB3	24:BE:160:PHE:CE2	2.04	0.91
25:BF:150:ARG:HA	25:BF:150:ARG:CZ	1.98	0.91
28:BI:31:ILE:HD13	28:BI:65:LEU:HG	1.52	0.91
28:BI:49:CYS:HB2	28:BI:168:SER:CA	1.99	0.91
29:BJ:16:LEU:HD21	29:BJ:78:ILE:HD11	1.52	0.91
31:BL:82:LYS:HE2	46:BZ:49:PHE:CD1	2.03	0.91
32:BM:5:VAL:HG13	32:BM:6:VAL:H	1.35	0.91
41:BV:120:VAL:HG11	41:BV:122:VAL:HG13	1.52	0.91
42:B0:111:ARG:HH21	42:B0:113:LYS:HD3	1.34	0.91
1:AA:111:G:C1'	1:AA:389:A:H4'	2.00	0.91
1:AA:560:U:H1'	1:AA:563:A:C5'	1.93	0.91
1:AA:1298:C:H5"	13:AM:57:ARG:CZ	1.99	0.91
2:AT:111:PHE:O	2:AT:533:THR:HG21	1.69	0.91
2:AT:536:LEU:HD13	18:B3:2699:A:C5'	1.99	0.91
3:AB:139:ASN:HA	8:AH:68:LEU:O	1.71	0.91
7:AG:200:ALA:HA	7:AG:210:ILE:HD11	1.51	0.91
18:B3:243:A:OP1	31:BL:2:ALA:CB	2.17	0.91
18:B3:1131:G:N3	18:B3:2522:G:O3'	1.71	0.91
18:B3:1385:G:C4'	43:BW:49:ARG:O	2.19	0.91
18:B3:1806:G:H5'	18:B3:2874:G:C2'	2.00	0.91
18:B3:2672:C:O3'	22:BC:31:PHE:HE1	1.51	0.91
18:B3:2717:C:OP1	22:BC:221:LYS:HE2	1.70	0.91
21:BB:57:LEU:CD2	21:BB:76:ILE:HA	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:116:GLU:HG2	21:BB:161:ALA:HB1	1.53	0.91
22:BC:49:LYS:CD	22:BC:332:LYS:HA	2.01	0.91
31:BL:169:LYS:HA	31:BL:169:LYS:HE3	1.52	0.91
34:BO:62:VAL:CB	34:BO:87:VAL:HA	2.01	0.91
37:BR:80:ARG:N	37:BR:99:ALA:HB3	1.84	0.91
40:BU:30:LEU:HD22	40:BU:78:PHE:CB	2.01	0.91
46:BZ:66:LYS:HA	46:BZ:86:ARG:HH11	1.36	0.91
1:AA:130:A:H8	16:AQ:135:ARG:CA	1.65	0.91
1:AA:1302:U:C5'	13:AM:54:LEU:HD23	1.99	0.91
11:AK:75:ILE:HG23	11:AK:109:LEU:HD21	1.49	0.91
13:AM:126:ARG:NH1	17:AS:121:ILE:CG1	2.33	0.91
17:AS:96:ILE:HG23	17:AS:120:SER:HB2	1.53	0.91
18:B3:81:G:O5'	40:BU:74:TYR:N	1.85	0.91
18:B3:772:G:N2	45:BY:48:TRP:HB2	1.84	0.91
18:B3:1096:U:O2'	25:BF:213:TRP:CZ3	2.22	0.91
18:B3:1672:G:N7	39:BT:108:LYS:NZ	2.16	0.91
18:B3:1847:A:HO2'	21:BB:179:LEU:HA	1.34	0.91
18:B3:2334:C:N3	29:BJ:114:LYS:C	2.23	0.91
18:B3:2820:A:C1'	22:BC:89:VAL:HG12	2.00	0.91
19:B4:48:C:O3'	24:BE:158:ARG:HA	1.48	0.91
19:B4:119:C:H6	24:BE:71:GLY:HA2	1.31	0.91
22:BC:59:LEU:HD12	22:BC:66:PHE:CB	1.99	0.91
22:BC:259:VAL:HG13	22:BC:261:TRP:CD1	2.04	0.91
24:BE:33:ARG:HA	24:BE:36:LEU:CD2	1.99	0.91
25:BF:167:ILE:HG21	25:BF:183:LEU:CD1	2.00	0.91
36:BQ:73:GLY:CA	36:BQ:89:LEU:HD13	2.01	0.91
1:AA:690:G:P	11:AK:23:ASN:OD1	2.28	0.91
1:AA:1308:U:P	13:AM:145:ARG:HD3	2.10	0.91
2:AT:108:HIS:HB2	2:AT:536:LEU:CG	2.00	0.91
10:AJ:61:LYS:HD3	10:AJ:61:LYS:H	1.33	0.91
18:B3:68:U:O5'	44:BX:55:LEU:HD22	1.68	0.91
18:B3:1206:C:O2	18:B3:1207:A:C4	2.24	0.91
18:B3:1225:C:C5'	18:B3:1248:A:C2	2.53	0.91
18:B3:1805:G:H21	18:B3:2875:A:N6	1.57	0.91
18:B3:1806:G:H4'	18:B3:2874:G:H1'	0.92	0.91
18:B3:1814:G:H8	18:B3:2731:G:C2	1.88	0.91
18:B3:2368:A:H2	24:BE:150:LEU:HD23	0.76	0.91
20:BA:51:GLY:O	20:BA:54:LYS:HB3	1.70	0.91
21:BB:43:ILE:N	21:BB:61:VAL:HG12	1.86	0.91
21:BB:224:ILE:HD12	21:BB:228:ALA:HB2	1.48	0.91
24:BE:65:ILE:HD11	24:BE:75:LEU:HB3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:132:LYS:HD2	26:BG:137:HIS:HB3	1.51	0.91
34:BO:65:SER:HB3	34:BO:91:ALA:CB	2.00	0.91
1:AA:318:G:N2	1:AA:1433:A:N1	2.19	0.91
1:AA:523:A:H2	12:AL:115:GLY:HA3	1.34	0.91
1:AA:1016:A:C1'	1:AA:1216:G:N2	2.34	0.91
1:AA:1502:A:H2	1:AA:1505:G:H1	1.18	0.91
8:AH:37:LEU:CD1	8:AH:60:ILE:HG21	2.01	0.91
18:B3:27:U:C2	18:B3:1318:A:N1	2.38	0.91
18:B3:710:G:P	34:BO:43:PRO:HD2	2.09	0.91
18:B3:919:U:H2'	41:BV:41:ARG:H	1.35	0.91
18:B3:1132:A:H2'	18:B3:2521:A:O4'	1.40	0.91
18:B3:1309:U:C6	23:BD:204:PRO:CD	2.54	0.91
18:B3:1676:G:H5"	39:BT:115:PRO:CB	1.99	0.91
18:B3:1705:C:H5'	35:BP:62:THR:CG2	2.00	0.91
18:B3:1806:G:N2	18:B3:2883:A:H3'	1.07	0.91
18:B3:2135:A:H2	18:B3:2239:C:N3	1.68	0.91
18:B3:2345:A:O4'	29:BJ:22:VAL:HB	1.68	0.91
19:B4:48:C:C3'	24:BE:158:ARG:HG3	1.98	0.91
19:B4:48:C:H2'	24:BE:158:ARG:CG	2.00	0.91
19:B4:119:C:H1'	24:BE:71:GLY:C	1.91	0.91
21:BB:101:LEU:HD11	21:BB:105:SER:CB	2.01	0.91
24:BE:16:PHE:HD1	36:BQ:19:PHE:CZ	1.82	0.91
24:BE:115:LEU:CD2	24:BE:171:LEU:HD13	2.01	0.91
24:BE:208:MET:HG2	24:BE:211:LEU:H	1.34	0.91
25:BF:130:GLU:HB3	25:BF:131:PRO:HD3	1.52	0.91
26:BG:112:ALA:HB3	26:BG:115:VAL:CG1	2.00	0.91
28:BI:36:LEU:HB3	28:BI:87:LEU:CB	2.00	0.91
35:BP:34:ALA:HB1	35:BP:40:ILE:CD1	1.98	0.91
40:BU:23:PRO:HD2	40:BU:26:GLN:HB3	1.50	0.91
46:BZ:3:VAL:HB	46:BZ:4:PRO:HA	1.53	0.91
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.06	0.91
1:AA:1300:G:C5'	13:AM:30:TYR:CG	2.53	0.91
1:AA:1309:G:C5	13:AM:92:ILE:CB	2.33	0.91
6:AE:157:THR:HA	8:AH:127:PHE:CZ	2.05	0.91
6:AE:164:VAL:HG11	6:AE:209:THR:HA	1.53	0.91
8:AH:27:ARG:HG3	8:AH:28:PRO:HD2	1.49	0.91
8:AH:103:LEU:HD22	8:AH:124:ILE:HA	1.50	0.91
10:AJ:55:PRO:CA	10:AJ:91:ILE:HG12	2.00	0.91
11:AK:15:VAL:HB	11:AK:30:THR:CG2	2.01	0.91
18:B3:80:A:H4'	40:BU:73:VAL:HG13	1.49	0.91
18:B3:107:U:O4'	44:BX:60:GLU:HA	1.68	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:537:G:C3'	42:B0:41:VAL:CG1	2.48	0.91
18:B3:1067:A:C5'	25:BF:96:PRO:CG	2.49	0.91
18:B3:1118:A:H4'	18:B3:1228:C:C4	2.06	0.91
18:B3:1243:C:H4'	32:BM:17:ARG:NH1	1.83	0.91
18:B3:2346:C:C5'	29:BJ:47:SER:CA	2.48	0.91
18:B3:2436:U:O2'	46:BZ:80:ALA:HA	1.70	0.91
19:B4:47:A:H5'	24:BE:153:THR:CA	1.98	0.91
22:BC:365:GLY:HA3	38:BS:35:LYS:HG2	0.91	0.91
1:AA:69:G:H2'	1:AA:171:A:C6	2.06	0.91
1:AA:958:A:N3	17:AS:101:ALA:HB1	1.84	0.91
1:AA:1075:C:H5"	3:AB:103:PRO:N	1.86	0.91
1:AA:1309:G:C3'	13:AM:123:ARG:NH2	2.27	0.91
3:AB:153:GLU:OE1	8:AH:19:THR:O	1.88	0.91
9:AI:122:ARG:HB3	9:AI:123:PRO:HD2	1.51	0.91
13:AM:38:VAL:HG23	13:AM:42:TYR:HB2	1.53	0.91
17:AS:55:GLY:HA2	17:AS:83:MET:HG3	1.52	0.91
18:B3:882:A:C5'	45:BY:1:GLY:O	2.18	0.91
18:B3:1362:U:O4'	23:BD:94:ARG:NH1	2.02	0.91
18:B3:2780:C:H5"	27:BH:162:GLN:NE2	1.85	0.91
21:BB:127:ARG:HD3	21:BB:127:ARG:H	1.36	0.91
21:BB:179:LEU:HD22	47:B9:21:LEU:CG	2.00	0.91
21:BB:179:LEU:HD11	47:B9:22:ARG:NH1	1.84	0.91
27:BH:92:TYR:HD1	27:BH:179:ILE:HG21	1.35	0.91
33:BN:17:ARG:HA	33:BN:17:ARG:CZ	2.01	0.91
35:BP:48:THR:CG2	35:BP:49:ILE:HG12	1.99	0.91
37:BR:31:ALA:HA	37:BR:32:ARG:HD3	1.50	0.91
37:BR:95:PHE:CE2	38:BS:23:ARG:CG	2.53	0.91
1:AA:1240:U:H4'	7:AG:188:THR:HG22	1.51	0.91
2:AT:749:LYS:HG2	18:B3:2508:C:C6	2.05	0.91
5:AD:99:LEU:HD12	5:AD:106:GLU:CB	2.00	0.91
9:AI:42:ILE:CD1	9:AI:45:PHE:HB2	2.01	0.91
18:B3:45:A:H2	18:B3:115:U:H3	0.94	0.91
18:B3:539:G:C6	42:B0:50:ILE:CD1	2.54	0.91
18:B3:763:C:O2	23:BD:86:GLN:HG3	1.71	0.91
18:B3:949:U:H1'	36:BQ:100:LYS:HB3	0.93	0.91
18:B3:1742:A:H8	18:B3:2723:G:H4'	1.36	0.91
18:B3:1801:A:H5'	35:BP:88:LEU:HD11	0.91	0.91
18:B3:2349:G:O6	29:BJ:117:PRO:HA	1.70	0.91
18:B3:2468:A:N7	46:BZ:55:PRO:CG	2.27	0.91
18:B3:2531:U:H2'	18:B3:2533:C:C5	2.06	0.91
22:BC:39:PRO:HB2	22:BC:182:LEU:HB2	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:55:PHE:CE1	24:BE:159:VAL:HG22	2.05	0.91
28:BI:38:LYS:HD3	28:BI:40:LYS:HG2	1.52	0.91
33:BN:60:ARG:CD	33:BN:61:ARG:HG3	2.00	0.91
36:BQ:76:ILE:HG13	36:BQ:78:LYS:HB2	1.53	0.91
39:BT:65:PRO:HA	39:BT:83:PHE:CD1	2.06	0.91
41:BV:126:ALA:N	41:BV:145:GLU:HB2	1.85	0.91
1:AA:66:G:C6	1:AA:69:G:C6	2.58	0.91
1:AA:401:C:H2'	1:AA:621:A:N3	1.86	0.91
1:AA:728:A:C6	15:AO:108:LYS:NZ	2.39	0.91
1:AA:1348:U:C5'	9:AI:134:ARG:CG	2.45	0.91
13:AM:92:ILE:N	13:AM:109:LEU:HD12	1.69	0.91
18:B3:81:G:O4'	40:BU:73:VAL:CG1	2.16	0.91
18:B3:635:A:H5'	23:BD:91:ASN:HD21	1.13	0.91
18:B3:1003:U:P	28:BI:90:ARG:CD	2.58	0.91
18:B3:1305:C:H2'	23:BD:194:ARG:NH2	1.85	0.91
18:B3:1805:G:N2	18:B3:2875:A:N6	1.96	0.91
18:B3:2050:G:HO2'	33:BN:84:ALA:HB3	1.34	0.91
18:B3:2312:G:P	28:BI:22:TYR:CE1	2.61	0.91
18:B3:2349:G:H4'	29:BJ:15:LYS:HZ1	1.26	0.91
18:B3:2846:C:O3'	22:BC:174:LYS:NZ	2.02	0.91
19:B4:36:C:H5'	24:BE:182:GLY:N	1.84	0.91
23:BD:165:VAL:HA	23:BD:168:LEU:CD2	2.00	0.91
24:BE:22:ARG:CZ	24:BE:22:ARG:HA	2.01	0.91
28:BI:12:GLN:HG3	28:BI:58:GLU:HG3	1.53	0.91
29:BJ:163:LYS:CE	29:BJ:169:ASP:HA	2.00	0.91
47:B9:68:TYR:CD2	47:B9:69:THR:HG23	2.05	0.91
1:AA:130:A:C5'	1:AA:190(E):U:OP1	2.13	0.90
1:AA:131:C:C3'	16:AQ:128:ARG:CZ	2.47	0.90
1:AA:777:A:C8	11:AK:126:ARG:NH2	2.37	0.90
10:AJ:108:ILE:HG23	10:AJ:109:GLU:H	1.35	0.90
18:B3:90:A:HO2'	44:BX:39:PRO:HG2	1.13	0.90
18:B3:1118:A:O4'	18:B3:1227:C:C4	2.24	0.90
18:B3:1164:U:C1'	30:BK:51:LYS:HB3	1.99	0.90
18:B3:1853:C:OP1	21:BB:240:ARG:NE	1.84	0.90
18:B3:2653:A:H4'	22:BC:256:PRO:CB	2.01	0.90
19:B4:5:G:H22	24:BE:71:GLY:C	1.68	0.90
20:BA:131:ALA:CB	20:BA:133:LYS:HD3	2.00	0.90
21:BB:171:GLY:H	47:B9:67:ALA:HB2	1.32	0.90
21:BB:171:GLY:CA	47:B9:67:ALA:CB	2.49	0.90
31:BL:67:ARG:HG2	31:BL:125:THR:CA	2.01	0.90
35:BP:98:LEU:N	35:BP:101:LEU:HD23	1.85	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:56:VAL:CG1	40:BU:104:LEU:HB2	2.02	0.90
1:AA:68:G:OP1	1:AA:172:A:C5'	2.15	0.90
1:AA:119:A:C5'	1:AA:122:G:N7	2.31	0.90
1:AA:130:A:O5'	16:AQ:127:CYS:HB3	1.48	0.90
1:AA:560:U:C1'	1:AA:563:A:C4'	2.32	0.90
1:AA:678:U:H2'	11:AK:125:THR:CB	2.00	0.90
1:AA:1086:U:H4'	1:AA:1389:C:H4'	1.50	0.90
1:AA:1286:A:H2'	1:AA:1287:A:H5"	1.52	0.90
1:AA:1501:C:H5"	1:AA:1508:G:HO2'	1.31	0.90
5:AD:99:LEU:HA	5:AD:103:ASP:H	1.33	0.90
8:AH:36:PHE:HE1	8:AH:102:ILE:HG21	1.36	0.90
16:AQ:90:LEU:HB3	16:AQ:99:TYR:CE2	2.07	0.90
17:AS:58:LYS:HE2	17:AS:80:MET:HG3	1.53	0.90
18:B3:678:G:O3'	23:BD:258:ASP:OD2	1.89	0.90
18:B3:697:G:P	41:BV:130:SER:OG	2.29	0.90
18:B3:1311:G:N7	23:BD:185:LYS:CG	2.33	0.90
18:B3:1689:A:C2	33:BN:128:THR:OG1	2.24	0.90
18:B3:1794:G:H5"	35:BP:97:ARG:CG	1.99	0.90
18:B3:1806:G:N2	18:B3:2884:G:H8	1.65	0.90
18:B3:2264:A:C5'	31:BL:92:LYS:NZ	2.35	0.90
18:B3:2337:G:N7	29:BJ:127:TYR:CE1	2.25	0.90
18:B3:2396:C:O2	41:BV:46:LYS:HD3	1.70	0.90
18:B3:2424:U:H5"	36:BQ:7:TYR:HD2	1.32	0.90
18:B3:2819:C:C3'	22:BC:101:LEU:H	1.66	0.90
18:B3:2848:G:OP2	22:BC:173:LYS:HE2	1.69	0.90
19:B4:9:C:OP2	36:BQ:26:HIS:NE2	2.04	0.90
19:B4:36:C:C2'	24:BE:156:GLY:N	2.32	0.90
20:BA:55:LEU:HD23	20:BA:167:VAL:CG2	1.91	0.90
22:BC:217:ILE:CD1	22:BC:337:LEU:HB2	2.02	0.90
29:BJ:26:GLY:HA3	29:BJ:31:ARG:H	1.33	0.90
32:BM:141:SER:HA	32:BM:144:VAL:HG12	1.53	0.90
35:BP:3:LEU:CD2	35:BP:32:ALA:HA	2.01	0.90
36:BQ:73:GLY:HA2	36:BQ:89:LEU:HD13	1.52	0.90
36:BQ:75:ILE:HG22	36:BQ:89:LEU:HB3	1.54	0.90
1:AA:676:A:N1	11:AK:123:ASP:CA	2.33	0.90
1:AA:1332:A:OP2	13:AM:40:ARG:HD2	1.68	0.90
1:AA:1372:U:H5"	9:AI:74:VAL:HG23	1.52	0.90
2:AT:465:LYS:NZ	2:AT:511:LEU:CB	2.33	0.90
18:B3:149:G:OP1	45:BY:42:LYS:HB3	1.71	0.90
18:B3:693:A:H5'	41:BV:59:TYR:CE1	1.98	0.90
18:B3:903:U:C4	41:BV:15:SER:CB	2.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1855:G:O6	21:BB:150:PRO:HG2	1.72	0.90
18:B3:2711:U:C2'	37:BR:41:GLY:O	2.05	0.90
28:BI:88:ARG:HD3	28:BI:89:VAL:H	1.35	0.90
34:BO:74:GLU:HB2	34:BO:138:LEU:CD2	2.00	0.90
35:BP:137:LEU:HD22	35:BP:141:ILE:HD11	1.54	0.90
36:BQ:36:VAL:HG22	36:BQ:37:GLY:H	1.37	0.90
45:BY:24:ARG:HG3	45:BY:25:SER:H	1.35	0.90
1:AA:6:G:H1'	1:AA:298:A:C2'	1.93	0.90
1:AA:20:U:O4'	1:AA:573:A:C6	2.24	0.90
1:AA:678:U:C2'	11:AK:125:THR:HB	1.85	0.90
1:AA:956:U:H1'	17:AS:126:VAL:HG23	1.50	0.90
1:AA:1075:C:C5'	3:AB:102:THR:HA	2.01	0.90
1:AA:1298:C:H42	7:AG:184:ARG:NH1	1.57	0.90
1:AA:1309:G:OP1	13:AM:127:HIS:CE1	2.23	0.90
1:AA:1314:C:H42	17:AS:49:MET:HA	1.08	0.90
10:AJ:70:THR:HG22	14:AN:40:GLN:N	1.45	0.90
18:B3:721:A:H5"	34:BO:71:LEU:CB	2.00	0.90
18:B3:815:U:HO3'	18:B3:1598:A:H4'	1.21	0.90
18:B3:905:C:OP1	41:BV:11:ARG:HD2	1.72	0.90
18:B3:967:U:C2'	28:BI:34:TYR:CE2	2.53	0.90
18:B3:1085:C:H5"	25:BF:89:LYS:HZ2	1.36	0.90
18:B3:1244:U:P	32:BM:14:LEU:HD13	2.11	0.90
18:B3:1287:A:C2	25:BF:106:ARG:CZ	2.44	0.90
18:B3:1675:C:O5'	39:BT:113:VAL:C	2.10	0.90
18:B3:2283:G:N1	28:BI:105:CYS:CA	2.33	0.90
18:B3:2552:C:O2'	18:B3:2553:A:H3'	1.70	0.90
18:B3:2661:U:O4	18:B3:2812:A:N6	2.03	0.90
18:B3:2713:G:H5"	37:BR:44:SER:O	1.69	0.90
21:BB:44:VAL:CG1	21:BB:58:ALA:HB1	2.00	0.90
21:BB:97:VAL:HA	21:BB:165:ILE:HG12	1.50	0.90
21:BB:177:PRO:HB2	21:BB:179:LEU:HD12	1.53	0.90
22:BC:84:VAL:HG13	22:BC:164:GLN:HE22	1.37	0.90
23:BD:5:VAL:HG12	23:BD:19:LEU:HA	1.51	0.90
30:BK:94:LYS:HD3	30:BK:138:SER:HA	1.52	0.90
45:BY:36:CYS:CA	45:BY:44:ARG:HB2	2.01	0.90
1:AA:860:A:C3'	8:AH:18:LYS:NZ	2.34	0.90
1:AA:1503:A:O2'	1:AA:1507:A:H5"	1.70	0.90
6:AE:155:THR:CA	8:AH:96:ARG:CB	2.49	0.90
10:AJ:69:LYS:CB	14:AN:39:ARG:NE	2.33	0.90
10:AJ:73:GLY:O	14:AN:25:SER:OG	1.88	0.90
13:AM:15:LEU:HG	13:AM:16:ARG:H	1.34	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:37:ILE:HG22	14:AN:41:CYS:H	1.36	0.90
18:B3:82:C:P	40:BU:75:ARG:HB2	2.11	0.90
18:B3:750:A:C1'	23:BD:116:GLU:CG	2.42	0.90
18:B3:1131:G:C5'	19:B4:91:C:O2	2.18	0.90
18:B3:1167:G:H2'	30:BK:110:ILE:HG22	1.53	0.90
18:B3:1358:A:C3'	23:BD:92:MET:HG2	2.02	0.90
18:B3:2165:G:HO2'	20:BA:33:GLU:HB2	1.14	0.90
18:B3:2215:A:H5'	20:BA:107:TYR:CE1	1.91	0.90
18:B3:2897:C:H5"	22:BC:312:HIS:NE2	1.85	0.90
19:B4:68:G:O3'	24:BE:13:SER:HB2	1.70	0.90
20:BA:36:VAL:HG13	20:BA:204:LEU:HD13	1.52	0.90
20:BA:63:MET:HG3	20:BA:108:ASN:CB	2.02	0.90
20:BA:67:ILE:HG21	20:BA:77:ALA:CB	2.02	0.90
22:BC:280:LYS:HB2	22:BC:324:LYS:HD2	1.51	0.90
27:BH:40:HIS:CE1	27:BH:67:ALA:HB1	2.07	0.90
30:BK:32:ILE:CD1	30:BK:37:LEU:HD23	2.00	0.90
44:BX:44:ILE:HA	44:BX:47:VAL:HG12	1.54	0.90
1:AA:59:A:H4'	1:AA:388:G:C8	2.07	0.90
1:AA:239:U:O2'	1:AA:288:A:H1'	1.72	0.90
1:AA:1483:A:O3'	18:B3:2001:G:C2	2.25	0.90
9:AI:9:PHE:CZ	9:AI:16:THR:HB	2.07	0.90
10:AJ:80:GLU:OE1	14:AN:43:ARG:CD	2.19	0.90
18:B3:375:G:N2	18:B3:411:A:H8	1.37	0.90
18:B3:449:A:H2	18:B3:1348:A:C5	1.89	0.90
18:B3:675:U:O2'	23:BD:235:LEU:CD2	2.20	0.90
18:B3:710:G:H5'	34:BO:44:PHE:HE2	1.30	0.90
18:B3:1304:U:H5"	23:BD:193:TYR:CE2	2.07	0.90
18:B3:1701:A:H4'	18:B3:1702:U:H5"	1.54	0.90
18:B3:1706:G:P	35:BP:65:HIS:CD2	2.64	0.90
18:B3:2214:A:C2'	20:BA:106:LYS:CD	2.33	0.90
18:B3:2222:C:H5'	20:BA:215:ARG:HH22	1.35	0.90
18:B3:2275:G:H5'	31:BL:78:ALA:HA	1.53	0.90
19:B4:119:C:O4'	24:BE:71:GLY:CA	2.20	0.90
20:BA:108:ASN:ND2	20:BA:162:VAL:HG23	1.66	0.90
21:BB:179:LEU:CG	47:B9:21:LEU:HD12	2.00	0.90
23:BD:192:LYS:HE2	23:BD:193:TYR:CD1	2.07	0.90
24:BE:208:MET:CB	24:BE:211:LEU:HD22	2.00	0.90
36:BQ:57:TYR:CD2	36:BQ:76:ILE:HG21	2.05	0.90
41:BV:71:VAL:CG1	41:BV:110:LYS:HD3	1.99	0.90
41:BV:80:LEU:CG	41:BV:86:ARG:HG3	1.99	0.90
42:B0:32:TRP:CH2	42:B0:34:LYS:HD2	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:499:A:O3'	1:AA:500:G:C5'	2.19	0.90
1:AA:988:G:C5'	1:AA:1014:A:OP1	2.20	0.90
1:AA:1059:C:H4'	14:AN:40:GLN:NE2	1.87	0.90
1:AA:1286:A:C2'	1:AA:1287:A:H5"	2.02	0.90
1:AA:1291:G:C5'	7:AG:111:ARG:NH2	2.33	0.90
3:AB:121:ILE:HA	3:AB:143:ILE:HG13	1.52	0.90
9:AI:96:VAL:CG1	9:AI:100:SER:HB2	2.02	0.90
18:B3:706:G:N2	34:BO:72:LYS:NZ	2.18	0.90
18:B3:730:G:C5'	41:BV:132:LEU:HD13	2.01	0.90
18:B3:763:C:O2	23:BD:86:GLN:OE1	1.90	0.90
18:B3:1226:G:C5'	18:B3:1244:U:O2	2.18	0.90
18:B3:1315:G:H4'	42:B0:103:LYS:HE2	1.51	0.90
18:B3:1398:G:P	35:BP:23:LEU:HB2	2.10	0.90
18:B3:1705:C:C5'	35:BP:62:THR:HB	1.96	0.90
18:B3:2560:C:C1'	18:B3:2776:A:H2	1.83	0.90
21:BB:180:LYS:HE2	21:BB:181:ALA:HB3	1.54	0.90
23:BD:210:GLU:HG3	23:BD:211:ASP:H	1.36	0.90
24:BE:51:LEU:CD1	24:BE:64:ILE:HD13	2.01	0.90
26:BG:152:ILE:CG1	26:BG:162:VAL:HG21	2.01	0.90
29:BJ:16:LEU:H	29:BJ:70:VAL:HG11	1.35	0.90
32:BM:39:GLU:CA	32:BM:137:LEU:HD23	2.02	0.90
33:BN:58:PRO:HA	33:BN:80:ALA:HB2	1.53	0.90
36:BQ:71:SER:HA	36:BQ:92:ARG:HE	1.34	0.90
1:AA:25:C:P	12:AL:39:LYS:HG3	2.11	0.90
1:AA:68:G:O2'	1:AA:170:U:O2	1.90	0.90
1:AA:124:G:C5'	1:AA:289:G:C2	2.54	0.90
1:AA:130:A:O4'	1:AA:190(E):U:C5	2.23	0.90
1:AA:239:U:O2'	1:AA:288:A:C4	2.16	0.90
1:AA:401:C:H5"	5:AD:78:ARG:HG2	1.07	0.90
1:AA:402:G:C8	1:AA:621:A:C2	2.59	0.90
1:AA:404:U:O2'	5:AD:23:ARG:N	2.02	0.90
1:AA:678:U:O2'	11:AK:125:THR:CG2	2.18	0.90
1:AA:779:C:C5'	11:AK:131:ARG:C	2.31	0.90
2:AT:109:VAL:HG11	2:AT:142:VAL:HG22	1.52	0.90
2:AT:126:LEU:HD11	2:AT:156:VAL:HG23	1.50	0.90
6:AE:79:VAL:HG21	6:AE:124:ILE:HD11	1.53	0.90
6:AE:102:VAL:CG2	6:AE:189:LEU:HB3	1.99	0.90
9:AI:97:ASP:HB2	9:AI:103:GLU:N	1.85	0.90
13:AM:16:ARG:HG2	13:AM:22:VAL:HB	1.53	0.90
13:AM:35:ILE:HB	13:AM:38:VAL:HG12	1.52	0.90
18:B3:475:G:OP1	23:BD:58:GLN:CD	2.10	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:751:U:OP1	23:BD:112:VAL:HA	1.72	0.90
18:B3:778:C:C5'	45:BY:9:LYS:NZ	2.34	0.90
18:B3:1173:A:OP1	30:BK:40:LYS:CE	2.19	0.90
18:B3:1347:U:O2'	23:BD:240:GLY:O	1.89	0.90
18:B3:2346:C:C4'	29:BJ:64:ILE:O	2.19	0.90
18:B3:2363:G:N2	36:BQ:8:ARG:CD	2.34	0.90
20:BA:54:LYS:CD	20:BA:156:LYS:HB3	2.02	0.90
33:BN:93:LEU:CD1	33:BN:147:LEU:HD22	2.02	0.90
1:AA:64:G:O6	1:AA:70:G:N2	2.05	0.90
1:AA:924:C:O2'	1:AA:1398:A:C2'	2.20	0.90
1:AA:1014:A:OP2	17:AS:72:LYS:NZ	0.75	0.90
1:AA:1070:U:H5'	6:AE:90:ARG:HB3	1.54	0.90
1:AA:1148:U:H5'	9:AI:9:PHE:HE1	1.29	0.90
1:AA:1225:A:N7	17:AS:100:LYS:CE	2.35	0.90
9:AI:45:PHE:CD1	9:AI:77:VAL:HG22	2.06	0.90
18:B3:92:G:H8	44:BX:41:LEU:CB	1.79	0.90
18:B3:251:C:H1'	31:BL:139:LYS:CE	1.92	0.90
18:B3:448:G:H3'	18:B3:1306:U:H4'	1.54	0.90
18:B3:772:G:N3	45:BY:46:TYR:HE2	1.66	0.90
18:B3:1096:U:O2'	25:BF:213:TRP:HZ3	1.54	0.90
18:B3:1133:A:OP1	28:BI:162:GLN:OE1	1.89	0.90
18:B3:1794:G:H5'	35:BP:97:ARG:HG3	1.53	0.90
18:B3:2165:G:O6	20:BA:60:ARG:NH1	2.05	0.90
18:B3:2350:G:O6	29:BJ:115:TYR:CD2	2.25	0.90
18:B3:2890:A:N1	38:BS:50:ALA:O	0.75	0.90
20:BA:54:LYS:HG3	20:BA:156:LYS:CG	2.01	0.90
21:BB:97:VAL:HA	21:BB:165:ILE:CB	2.01	0.90
23:BD:180:VAL:CG2	23:BD:205:LEU:HD13	2.01	0.90
24:BE:42:ALA:CB	24:BE:66:SER:HB3	2.01	0.90
27:BH:43:VAL:HG12	32:BM:127:ARG:HD2	1.45	0.90
27:BH:107:ASP:HA	27:BH:112:ILE:CG1	2.02	0.90
31:BL:65:VAL:HG23	31:BL:66:ARG:H	1.37	0.90
32:BM:128:LEU:HB3	32:BM:131:GLY:CA	2.01	0.90
33:BN:134:ARG:HD3	33:BN:135:ILE:H	1.36	0.90
37:BR:32:ARG:HG2	37:BR:33:ASN:H	1.35	0.90
1:AA:401:C:C5'	5:AD:78:ARG:HG2	1.93	0.90
1:AA:994:A:C6	1:AA:1046:A:N3	2.35	0.90
1:AA:1309:G:H3'	13:AM:123:ARG:HH22	0.82	0.90
6:AE:140:ARG:HG2	6:AE:141:GLY:H	1.36	0.90
7:AG:86:CYS:HB2	7:AG:87:PRO:HD3	1.54	0.90
18:B3:100:C:O2'	40:BU:24:SER:N	2.04	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:540:A:H62	42:B0:50:ILE:HD12	1.03	0.90
18:B3:677:C:C3'	23:BD:256:LYS:CG	2.47	0.90
18:B3:944:G:O4'	25:BF:100:LYS:HE3	1.69	0.90
18:B3:2663:U:O2	18:B3:2816:A:C5	2.24	0.90
18:B3:2668:G:C3'	22:BC:128:ALA:HB1	2.02	0.90
18:B3:2738:G:H4'	35:BP:62:THR:O	1.72	0.90
19:B4:69:U:O2'	24:BE:14:SER:HB2	1.70	0.90
20:BA:94:ASN:HB2	20:BA:123:LEU:CB	2.01	0.90
22:BC:47:GLY:HA3	22:BC:80:THR:HG22	1.52	0.90
22:BC:165:ILE:CG2	22:BC:171:ALA:HB3	2.02	0.90
24:BE:207:TYR:CE1	24:BE:208:MET:HB3	2.07	0.90
37:BR:11:PHE:HB3	37:BR:86:ARG:HE	1.35	0.90
41:BV:120:VAL:CB	41:BV:122:VAL:HG13	2.02	0.90
1:AA:254:G:C4'	16:AQ:79:MET:HE1	1.98	0.89
1:AA:778:G:C4'	11:AK:126:ARG:HD2	2.02	0.89
1:AA:989:C:C6	1:AA:1016:A:C5	2.58	0.89
1:AA:1177:G:C5'	9:AI:105:LYS:CD	2.39	0.89
1:AA:1225:A:C1'	17:AS:122:THR:O	2.20	0.89
2:AT:785:ARG:NE	18:B3:2697:A:H62	1.69	0.89
4:AC:100:GLN:HE22	4:AC:135:VAL:HG22	1.34	0.89
17:AS:50:THR:HG22	17:AS:51:SER:H	1.35	0.89
18:B3:72:C:C4'	44:BX:49:LYS:NZ	2.34	0.89
18:B3:92:G:N3	44:BX:42:PRO:HG3	1.85	0.89
18:B3:537:G:H1'	42:B0:21:HIS:CD2	2.05	0.89
18:B3:672:G:P	23:BD:214:ILE:HD12	2.11	0.89
18:B3:924:G:N1	41:BV:41:ARG:CB	2.25	0.89
18:B3:1853:C:H5'	21:BB:238:ALA:O	1.69	0.89
18:B3:2295:G:H5"	36:BQ:5:HIS:C	1.90	0.89
18:B3:2403:C:H2'	36:BQ:69:LYS:CD	2.02	0.89
18:B3:2757:A:OP1	22:BC:364:PHE:HA	1.70	0.89
19:B4:85:A:H4'	25:BF:131:PRO:HB3	1.51	0.89
21:BB:171:GLY:H	47:B9:67:ALA:CA	1.85	0.89
21:BB:177:PRO:CB	47:B9:22:ARG:HD2	2.03	0.89
22:BC:359:ASP:C	38:BS:14:TYR:HB3	1.93	0.89
23:BD:191:GLY:HA2	23:BD:194:ARG:CD	2.02	0.89
29:BJ:17:VAL:HB	29:BJ:69:THR:HA	1.51	0.89
32:BM:4:PRO:HA	32:BM:32:ILE:HG12	1.51	0.89
36:BQ:40:VAL:CG1	36:BQ:97:LYS:HA	2.01	0.89
40:BU:33:ALA:HB2	40:BU:104:LEU:HD21	1.51	0.89
1:AA:403:C:HO3'	5:AD:123:HIS:CD2	1.91	0.89
1:AA:518:C:O2'	12:AL:66:SER:C	2.09	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:529:G:H1	12:AL:69:ARG:HH21	1.17	0.89
1:AA:778:G:C4'	11:AK:126:ARG:CD	2.50	0.89
3:AB:22:HIS:HE1	3:AB:171:LEU:HD13	1.36	0.89
3:AB:169:ILE:HD12	3:AB:173:TRP:HZ3	1.37	0.89
10:AJ:74:GLU:HG3	14:AN:37:ILE:CD1	1.96	0.89
18:B3:710:G:H5'	34:BO:44:PHE:HD2	1.36	0.89
18:B3:820:G:O6	21:BB:181:ALA:HB3	1.72	0.89
18:B3:919:U:N3	41:BV:41:ARG:CB	2.35	0.89
18:B3:1277:C:H5'	34:BO:35:PHE:CE2	2.07	0.89
18:B3:1343:C:O2'	23:BD:188:ALA:HB1	1.73	0.89
18:B3:1714:C:H5'	18:B3:2745:C:O4'	1.73	0.89
18:B3:1805:G:H5'	18:B3:2875:A:C4'	1.87	0.89
18:B3:1814:G:C2'	18:B3:2733:U:C6	2.52	0.89
18:B3:2347:C:C6	29:BJ:66:VAL:HG11	0.66	0.89
18:B3:2579:G:H5'	18:B3:2680:A:C5'	2.01	0.89
23:BD:168:LEU:CD1	23:BD:174:HIS:HB2	2.01	0.89
24:BE:54:ARG:HB2	24:BE:61:ILE:CG2	2.01	0.89
31:BL:60:ILE:HG22	31:BL:132:ILE:HA	1.54	0.89
33:BN:38:TRP:HE3	33:BN:42:LYS:HG2	1.37	0.89
34:BO:62:VAL:HG13	34:BO:63:SER:H	1.37	0.89
37:BR:60:ALA:N	37:BR:74:MET:HE2	1.88	0.89
37:BR:96:GLU:OE2	38:BS:24:GLY:HA2	1.72	0.89
42:B0:19:ARG:HD3	42:B0:20:HIS:N	1.85	0.89
1:AA:46:G:O3'	1:AA:47:C:OP2	1.89	0.89
1:AA:131:C:H5'	16:AQ:128:ARG:NH1	1.84	0.89
1:AA:1329:A:H61	13:AM:95:GLY:N	1.70	0.89
5:AD:141:VAL:CG1	5:AD:143:ILE:HG22	2.03	0.89
13:AM:131:LEU:CD1	17:AS:121:ILE:HG21	2.00	0.89
17:AS:96:ILE:CG2	17:AS:120:SER:HB2	2.01	0.89
18:B3:67:A:O2'	39:BT:60:LYS:HD2	1.73	0.89
18:B3:269:G:H5"	18:B3:274:G:H1'	1.53	0.89
18:B3:777:U:C1'	45:BY:12:ASN:HD21	1.84	0.89
18:B3:844:A:H8	33:BN:130:ARG:HH21	1.10	0.89
18:B3:1018:A:HO2'	36:BQ:60:LYS:HE2	1.12	0.89
18:B3:1189:A:H1'	18:B3:1209:C:H4'	1.54	0.89
18:B3:1310:U:O4	23:BD:181:LEU:HD12	1.71	0.89
18:B3:1448:A:O3'	39:BT:110:ASN:ND2	2.05	0.89
18:B3:1785:G:H4'	18:B3:2733:U:OP1	1.69	0.89
18:B3:2242:U:O4	18:B3:2257:G:N1	2.04	0.89
18:B3:2244:A:N6	18:B3:2257:G:N3	2.20	0.89
18:B3:2519:C:O2'	28:BI:159:PHE:N	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:75:VAL:HG11	22:BC:326:CYS:N	1.87	0.89
27:BH:101:VAL:HG13	27:BH:113:GLU:CG	2.02	0.89
27:BH:103:ILE:CD1	27:BH:134:ILE:HB	2.00	0.89
47:B9:23:ARG:HD2	47:B9:27:LYS:HE3	1.53	0.89
1:AA:124:G:H5'	1:AA:289:G:N2	1.85	0.89
1:AA:130:A:OP2	16:AQ:137:ASN:N	2.05	0.89
1:AA:405:U:O4'	5:AD:23:ARG:N	1.97	0.89
1:AA:988:G:C2'	1:AA:1014:A:H3'	2.01	0.89
1:AA:1343:G:C4'	9:AI:138:GLN:N	2.35	0.89
1:AA:1419:G:N2	18:B3:1990:C:H5"	1.84	0.89
7:AG:111:ARG:HH22	9:AI:41:GLU:CG	1.86	0.89
10:AJ:50:LEU:HD13	10:AJ:94:GLU:HB3	1.55	0.89
18:B3:199:A:O2'	18:B3:200:U:H5"	1.72	0.89
18:B3:905:C:P	41:BV:11:ARG:HD2	2.13	0.89
18:B3:951:A:C5'	36:BQ:43:LYS:CD	2.50	0.89
18:B3:1164:U:C2'	30:BK:51:LYS:HB2	2.02	0.89
18:B3:1164:U:O5'	30:BK:47:ALA:O	1.88	0.89
18:B3:1225:C:H5"	18:B3:1248:A:C2	2.08	0.89
18:B3:1300:G:O6	18:B3:1330:A:C2	2.25	0.89
18:B3:1939:U:O2'	21:BB:242:THR:O	1.89	0.89
18:B3:2552:C:C3'	18:B3:2553:A:N3	2.35	0.89
18:B3:2557:U:C2	18:B3:2800:A:C8	2.60	0.89
20:BA:109:ALA:HA	20:BA:161:LYS:HB3	1.55	0.89
26:BG:151:LEU:CG	26:BG:185:LEU:HD22	2.02	0.89
27:BH:7:GLU:CG	27:BH:56:ALA:HB2	2.02	0.89
27:BH:107:ASP:HB3	27:BH:128:VAL:H	1.37	0.89
39:BT:104:VAL:HG11	39:BT:125:LEU:HD13	1.55	0.89
1:AA:12:U:H5"	1:AA:526:C:H4'	1.49	0.89
1:AA:568:G:OP1	6:AE:202:LYS:CE	2.20	0.89
3:AB:31:HIS:CD2	8:AH:21:LYS:HE3	2.07	0.89
3:AB:138:VAL:HG11	3:AB:140:ILE:HD12	1.53	0.89
13:AM:42:TYR:HB3	13:AM:84:TRP:CZ2	2.08	0.89
18:B3:68:U:N3	44:BX:57:VAL:HG23	1.85	0.89
18:B3:1133:A:C2'	18:B3:2520:G:H1'	1.98	0.89
18:B3:1308:A:C2'	23:BD:204:PRO:HB3	2.02	0.89
18:B3:1382:G:O2'	43:BW:26:LYS:CG	2.21	0.89
18:B3:1507:C:H4'	39:BT:74:LYS:HD2	1.53	0.89
18:B3:2312:G:O5'	28:BI:22:TYR:HE1	1.53	0.89
18:B3:2404:G:H8	36:BQ:69:LYS:HD3	1.07	0.89
18:B3:2796:U:H5"	27:BH:129:ARG:HH12	1.38	0.89
27:BH:41:ILE:O	32:BM:126:LEU:CB	2.19	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:77:ASN:HD21	27:BH:151:VAL:HB	1.35	0.89
29:BJ:75:ALA:HA	29:BJ:78:ILE:CG1	2.02	0.89
1:AA:1301:U:H4'	13:AM:30:TYR:N	1.88	0.89
1:AA:1343:G:C4'	9:AI:138:GLN:CA	2.49	0.89
8:AH:101:VAL:HG12	8:AH:112:HIS:HB3	1.53	0.89
9:AI:54:VAL:HG12	9:AI:88:LEU:HD21	1.54	0.89
10:AJ:71:PRO:HD2	14:AN:42:PHE:HB2	1.52	0.89
18:B3:1139:U:H1'	27:BH:62:ARG:HH21	1.35	0.89
18:B3:1167:G:OP2	30:BK:48:LYS:HD2	1.72	0.89
18:B3:1449:G:H5'	39:BT:110:ASN:HD21	1.35	0.89
18:B3:2101:A:H3'	23:BD:66:THR:HA	1.51	0.89
18:B3:2853:U:OP2	22:BC:170:LEU:HG	1.71	0.89
22:BC:158:ARG:HD3	22:BC:179:GLU:CG	2.01	0.89
23:BD:73:ILE:HG21	23:BD:75:ARG:HB2	1.55	0.89
28:BI:154:ARG:HB2	28:BI:154:ARG:NH1	1.88	0.89
31:BL:163:LEU:CD1	31:BL:164:THR:HG22	2.01	0.89
1:AA:66:G:C2	1:AA:69:G:N7	2.40	0.89
1:AA:256:U:OP1	16:AQ:81:ARG:CD	2.19	0.89
1:AA:560:U:O2	1:AA:563:A:C4'	2.20	0.89
1:AA:676:A:H3'	11:AK:121:PRO:HD2	1.55	0.89
1:AA:989:C:C5'	1:AA:1013:G:C1'	2.42	0.89
5:AD:99:LEU:HB3	5:AD:106:GLU:H	1.38	0.89
6:AE:157:THR:CG2	8:AH:127:PHE:CD1	2.50	0.89
18:B3:81:G:H5'	40:BU:73:VAL:C	1.91	0.89
18:B3:500:G:N3	33:BN:16:ALA:CB	2.35	0.89
18:B3:841:A:H8	33:BN:131:ALA:HB1	0.74	0.89
18:B3:1139:U:C4'	27:BH:62:ARG:HG3	2.03	0.89
18:B3:1352:A:H4'	23:BD:102:THR:HG21	0.89	0.89
18:B3:1675:C:C5'	39:BT:113:VAL:HA	1.84	0.89
18:B3:2081:A:C2'	32:BM:69:PRO:CG	2.44	0.89
18:B3:2134:G:H22	18:B3:2241:C:H42	1.17	0.89
20:BA:12:HIS:CE1	20:BA:206:VAL:HG13	2.07	0.89
23:BD:11:THR:CG2	23:BD:13:GLU:HG2	2.03	0.89
28:BI:50:VAL:HG22	28:BI:51:HIS:H	1.38	0.89
34:BO:60:PRO:HG2	34:BO:86:THR:HG22	1.54	0.89
43:BW:15:LEU:CA	43:BW:19:LEU:HD12	2.01	0.89
45:BY:32:THR:HB	45:BY:38:TYR:CD1	2.07	0.89
1:AA:318:G:C4'	1:AA:1468:A:H4'	2.01	0.89
1:AA:560:U:O4'	1:AA:563:A:H5'	1.70	0.89
1:AA:668:G:H1'	15:AO:104:ASN:HD22	1.33	0.89
1:AA:677:U:H5'	11:AK:127:LYS:NZ	1.88	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1016:A:O4'	1:AA:1216:G:N2	2.06	0.89
1:AA:1124:G:O2'	10:AJ:56:VAL:HG21	1.71	0.89
1:AA:1321:C:H2'	17:AS:81:ARG:HH22	1.38	0.89
3:AB:123:THR:HG23	3:AB:124:ASP:H	1.38	0.89
5:AD:90:LYS:HB3	6:AE:172:PRO:HB2	1.52	0.89
8:AH:76:PRO:HG3	8:AH:129:TYR:CE2	2.07	0.89
9:AI:100:SER:CB	9:AI:116:LEU:HD13	2.02	0.89
18:B3:541:C:H5	42:B0:15:LYS:CG	1.65	0.89
18:B3:945:U:O2'	25:BF:124:GLU:HB2	1.70	0.89
18:B3:1088:A:O2'	18:B3:1089:G:H5"	1.71	0.89
18:B3:1304:U:C5'	23:BD:193:TYR:CZ	2.55	0.89
18:B3:1347:U:O2'	23:BD:241:ALA:HB3	1.73	0.89
18:B3:1749:U:H4'	22:BC:239:ARG:NH2	1.88	0.89
18:B3:1855:G:C6	21:BB:149:LEU:CB	2.53	0.89
18:B3:1942:A:HO2'	21:BB:222:SER:HB2	1.33	0.89
18:B3:2166:G:O6	20:BA:61:PRO:HA	1.70	0.89
18:B3:2311:A:O2'	28:BI:22:TYR:CE1	2.26	0.89
18:B3:2806:C:H4'	22:BC:343:THR:HG21	1.52	0.89
22:BC:304:ILE:CG1	22:BC:358:ILE:HG12	2.02	0.89
24:BE:65:ILE:CG2	24:BE:73:VAL:HG23	2.02	0.89
26:BG:189:VAL:HG13	26:BG:191:GLN:HG2	1.52	0.89
27:BH:17:THR:CB	27:BH:28:VAL:HG21	2.01	0.89
35:BP:43:LEU:HD23	35:BP:44:VAL:N	1.87	0.89
36:BQ:34:TYR:CD1	36:BQ:97:LYS:HD3	2.08	0.89
42:B0:76:VAL:HG21	42:B0:94:ALA:HB1	1.54	0.89
44:BX:19:SER:N	44:BX:21:LEU:HD22	1.88	0.89
1:AA:924:C:H1'	1:AA:1398:A:N3	1.85	0.89
1:AA:989:C:O4'	1:AA:1015:A:C5	2.18	0.89
1:AA:1418:A:H2	18:B3:1989:G:N2	1.71	0.89
1:AA:1503:A:C8	1:AA:1531:A:N1	2.41	0.89
4:AC:143:ALA:CB	4:AC:178:GLN:HG2	2.02	0.89
7:AG:161:VAL:CG2	7:AG:165:ARG:HD2	2.03	0.89
9:AI:35:ILE:HD11	9:AI:45:PHE:CZ	2.07	0.89
10:AJ:73:GLY:HA2	14:AN:25:SER:CA	2.02	0.89
10:AJ:78:THR:HG23	14:AN:39:ARG:CG	2.03	0.89
18:B3:80:A:H5'	40:BU:74:TYR:CZ	2.08	0.89
18:B3:175:G:H2'	31:BL:194:ASN:CG	1.92	0.89
18:B3:449:A:H5'	18:B3:1306:U:C2	2.08	0.89
18:B3:697:G:C5'	41:BV:130:SER:OG	2.21	0.89
18:B3:1003:U:O5'	28:BI:90:ARG:CZ	2.21	0.89
18:B3:1100:G:OP2	19:B4:87:U:O2	1.90	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1705:C:C5'	35:BP:62:THR:HG21	2.03	0.89
18:B3:2346:C:O2	29:BJ:19:ASN:OD1	1.90	0.89
18:B3:2347:C:H6	29:BJ:66:VAL:CB	1.81	0.89
18:B3:2401:A:C1'	36:BQ:7:TYR:OH	2.20	0.89
18:B3:2506:A:O2'	18:B3:2507:G:H8	1.56	0.89
18:B3:2817:G:OP2	22:BC:96:ARG:NH2	2.05	0.89
21:BB:43:ILE:HG13	21:BB:61:VAL:CG1	2.02	0.89
22:BC:162:HIS:HA	22:BC:177:LEU:CB	2.02	0.89
25:BF:97:LYS:HB3	25:BF:98:PRO:HD3	1.54	0.89
26:BG:149:LEU:CG	26:BG:210:LEU:HD21	2.02	0.89
29:BJ:31:ARG:HB3	29:BJ:34:LYS:CE	2.01	0.89
34:BO:81:VAL:HG21	34:BO:140:LEU:HD12	1.55	0.89
35:BP:62:THR:HA	35:BP:65:HIS:CE1	2.08	0.89
39:BT:63:GLU:HG3	39:BT:64:GLN:H	1.38	0.89
43:BW:59:TRP:HH2	43:BW:66:VAL:HG13	1.35	0.89
1:AA:1221:G:OP2	17:AS:80:MET:C	2.11	0.89
1:AA:1343:G:OP1	9:AI:139:LYS:HG2	1.73	0.89
1:AA:1484:C:C6	18:B3:2001:G:O2'	2.26	0.89
2:AT:463:LEU:HA	2:AT:513:LYS:CE	2.02	0.89
10:AJ:78:THR:CG2	14:AN:39:ARG:CB	2.51	0.89
11:AK:37:THR:HG21	11:AK:73:VAL:HG21	1.52	0.89
13:AM:88:ARG:NH1	13:AM:115:ARG:CZ	2.20	0.89
18:B3:918:G:C2'	41:BV:44:MET:SD	2.61	0.89
18:B3:919:U:O2'	41:BV:39:HIS:O	1.88	0.89
18:B3:1018:A:O2'	36:BQ:60:LYS:CB	2.19	0.89
18:B3:1811:A:N3	18:B3:2752:C:C2	2.41	0.89
18:B3:2526:C:O2	18:B3:2604:A:H4'	1.73	0.89
19:B4:49:G:C4	24:BE:94:ASN:HA	2.08	0.89
24:BE:219:PHE:CE1	24:BE:222:LEU:HB2	2.08	0.89
27:BH:8:GLN:HG2	27:BH:72:LYS:HE3	1.55	0.89
32:BM:12:GLY:HA3	32:BM:123:LEU:HD12	1.53	0.89
33:BN:127:ARG:HB2	33:BN:138:TYR:HB3	1.53	0.89
34:BO:63:SER:H	34:BO:88:THR:HG22	1.35	0.89
34:BO:80:THR:HB	34:BO:101:VAL:CG1	2.00	0.89
1:AA:988:G:C2'	1:AA:1015:A:C8	2.52	0.88
1:AA:990:C:O2'	1:AA:1017:G:OP1	1.91	0.88
1:AA:1086:U:C3'	1:AA:1389:C:H4'	2.02	0.88
1:AA:1309:G:O6	13:AM:95:GLY:N	1.81	0.88
1:AA:1483:A:O3'	18:B3:2001:G:N2	2.05	0.88
1:AA:1497:G:N3	1:AA:1518:A:C5	2.24	0.88
7:AG:110:VAL:CG2	9:AI:43:LEU:HG	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:77:ASN:CB	15:AO:85:GLU:HG3	2.03	0.88
18:B3:93:C:H5'	44:BX:42:PRO:O	1.72	0.88
18:B3:1809:G:H4'	18:B3:2731:G:C5'	2.01	0.88
18:B3:1993:C:O4'	37:BR:72:LYS:HG2	1.72	0.88
18:B3:2351:C:C2	29:BJ:115:TYR:HA	2.08	0.88
18:B3:2552:C:H1'	18:B3:2553:A:O2'	1.73	0.88
20:BA:55:LEU:HD21	20:BA:167:VAL:CG2	2.01	0.88
21:BB:3:VAL:HG13	21:BB:7:GLN:CG	2.02	0.88
24:BE:20:PHE:CG	24:BE:24:ARG:HB2	2.08	0.88
24:BE:58:LYS:HA	24:BE:93:THR:HB	1.54	0.88
25:BF:206:LEU:HD11	25:BF:242:MET:CA	2.03	0.88
26:BG:113:ALA:HB2	26:BG:119:LYS:CB	2.03	0.88
26:BG:135:LEU:HG	26:BG:161:LEU:HB3	1.55	0.88
28:BI:135:ILE:HG22	28:BI:136:PHE:CD2	2.08	0.88
35:BP:40:ILE:HA	35:BP:43:LEU:HD21	1.55	0.88
40:BU:81:GLN:HG2	40:BU:82:VAL:H	1.38	0.88
47:B9:55:THR:CG2	47:B9:61:LYS:HG2	2.02	0.88
1:AA:309:G:N2	1:AA:607:A:H61	1.72	0.88
1:AA:829:G:O2'	3:AB:126:ARG:NH2	2.05	0.88
1:AA:1317:C:C5	17:AS:56:PHE:CZ	2.55	0.88
1:AA:1329:A:N1	13:AM:94:ASP:CA	2.22	0.88
1:AA:1372:U:C5'	9:AI:74:VAL:CG2	2.13	0.88
5:AD:86:LEU:HG	5:AD:97:LEU:CA	2.02	0.88
13:AM:81:ILE:HG13	13:AM:82:PRO:HD2	1.53	0.88
18:B3:537:G:C3'	42:B0:21:HIS:NE2	2.37	0.88
18:B3:621:C:H3'	42:B0:36:LYS:CD	2.03	0.88
18:B3:1206:C:C3'	18:B3:1207:A:H8	1.84	0.88
18:B3:1674:C:OP2	39:BT:111:THR:HA	0.72	0.88
18:B3:2152:C:H4'	18:B3:2153:G:OP1	1.73	0.88
18:B3:2337:G:OP1	29:BJ:103:PHE:CB	2.19	0.88
18:B3:2368:A:C2	24:BE:150:LEU:CD2	2.30	0.88
18:B3:2413:A:O2'	24:BE:174:PRO:HB3	1.73	0.88
18:B3:2668:G:C4'	22:BC:128:ALA:CB	2.50	0.88
18:B3:2737:C:C6	35:BP:60:SER:CB	2.56	0.88
18:B3:2840:A:OP1	22:BC:225:PHE:N	2.06	0.88
18:B3:2847:G:OP1	22:BC:174:LYS:N	2.05	0.88
30:BK:85:LEU:HD11	30:BK:102:GLY:HA3	1.54	0.88
38:BS:44:LYS:HA	38:BS:44:LYS:HE3	1.55	0.88
47:B9:29:GLU:HB3	47:B9:31:GLN:N	1.88	0.88
47:B9:56:CYS:HB3	47:B9:61:LYS:HD2	1.54	0.88
1:AA:70:G:H22	1:AA:101:A:H61	1.18	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:144:G:C6	1:AA:199:G:H5'	2.08	0.88
1:AA:1344:C:H5'	9:AI:136:ARG:N	1.88	0.88
7:AG:85:GLN:HG3	7:AG:93:THR:HB	1.54	0.88
13:AM:18:LEU:HD11	13:AM:74:GLN:HA	1.54	0.88
13:AM:129:TRP:CE3	17:AS:121:ILE:HG12	2.07	0.88
18:B3:29:C:C4'	18:B3:1342:C:OP1	2.22	0.88
18:B3:924:G:C5	41:BV:41:ARG:HG3	2.07	0.88
18:B3:1798:C:P	35:BP:70:ARG:O	2.31	0.88
18:B3:2671:U:O2'	22:BC:158:ARG:HD3	1.72	0.88
18:B3:2734:G:H5"	35:BP:79:LYS:HD3	1.53	0.88
19:B4:11:A:N6	24:BE:16:PHE:N	1.88	0.88
19:B4:48:C:H2'	24:BE:158:ARG:HG3	1.55	0.88
19:B4:68:G:H21	24:BE:11:ALA:HB1	1.06	0.88
23:BD:187:ARG:HB3	23:BD:197:ARG:CG	2.04	0.88
29:BJ:95:PHE:HB3	29:BJ:101:PHE:CB	2.02	0.88
29:BJ:141:LYS:HD3	29:BJ:144:LYS:HE2	1.53	0.88
33:BN:111:LEU:HB3	33:BN:150:THR:HG22	1.51	0.88
34:BO:93:ILE:HD12	34:BO:117:ALA:HB3	1.54	0.88
43:BW:61:ARG:HD3	43:BW:65:GLY:HA3	1.54	0.88
1:AA:25:C:OP2	12:AL:39:LYS:CE	2.21	0.88
1:AA:978:A:O2'	17:AS:81:ARG:HG2	1.72	0.88
1:AA:1177:G:H4'	9:AI:105:LYS:HD3	1.31	0.88
2:AT:141:THR:O	2:AT:483:PHE:CE2	2.26	0.88
7:AG:110:VAL:HG23	9:AI:43:LEU:HG	1.53	0.88
8:AH:36:PHE:CE1	8:AH:102:ILE:HG21	2.09	0.88
18:B3:28:G:H1'	18:B3:1317:A:N1	1.89	0.88
18:B3:156:C:H4'	31:BL:163:LEU:O	1.74	0.88
18:B3:540:A:C5'	42:B0:17:PHE:HA	2.04	0.88
18:B3:620:A:O3'	42:B0:40:SER:HB3	1.73	0.88
18:B3:671:A:H5'	23:BD:212:ASN:HA	1.54	0.88
18:B3:906:C:C2	18:B3:1328:A:C4	2.58	0.88
18:B3:1180:C:O2	30:BK:110:ILE:CD1	2.22	0.88
18:B3:1882:C:P	21:BB:199:ARG:O	2.31	0.88
18:B3:2663:U:C2	18:B3:2816:A:C5	2.61	0.88
20:BA:63:MET:CG	20:BA:108:ASN:HB3	2.03	0.88
21:BB:79:GLU:HG3	21:BB:80:GLY:H	1.35	0.88
22:BC:44:SER:HB2	22:BC:180:ILE:HG21	1.55	0.88
22:BC:48:TYR:HA	22:BC:78:VAL:HG13	1.54	0.88
22:BC:239:ARG:HA	22:BC:242:HIS:CB	2.02	0.88
23:BD:7:VAL:CG1	23:BD:16:ALA:HB3	2.02	0.88
35:BP:31:ILE:CG2	35:BP:43:LEU:HD12	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:82:VAL:HB	40:BU:85:VAL:HB	1.56	0.88
1:AA:560:U:C2	1:AA:563:A:H4'	2.08	0.88
2:AT:738:GLN:HA	18:B3:1199:A:H61	1.29	0.88
3:AB:75:ILE:HG23	3:AB:122:VAL:HG23	1.54	0.88
18:B3:27:U:C5	18:B3:1319:G:O2'	2.02	0.88
18:B3:145:A:C2'	31:BL:111:ASN:OD1	2.21	0.88
18:B3:487:G:C3'	40:BU:90:VAL:CG1	2.12	0.88
18:B3:844:A:O4'	33:BN:133:GLY:HA3	1.73	0.88
18:B3:906:C:C2	18:B3:1328:A:C5	2.55	0.88
18:B3:953:G:OP2	36:BQ:13:TYR:HB2	0.70	0.88
18:B3:1120:U:C4	18:B3:1226:G:OP1	2.27	0.88
18:B3:1139:U:C4'	27:BH:62:ARG:NE	2.36	0.88
18:B3:1181:A:C4'	30:BK:109:ILE:HG13	2.00	0.88
18:B3:1381:A:N7	43:BW:25:LYS:HA	1.89	0.88
18:B3:1742:A:H5'	18:B3:2723:G:C3'	2.02	0.88
18:B3:2821:C:H5'	22:BC:103:THR:C	1.94	0.88
19:B4:119:C:O4'	24:BE:71:GLY:HA3	1.73	0.88
20:BA:51:GLY:H	20:BA:54:LYS:CA	1.85	0.88
20:BA:55:LEU:HD12	20:BA:157:PHE:HA	0.89	0.88
21:BB:106:VAL:HG22	21:BB:107:PRO:HD2	1.54	0.88
23:BD:151:VAL:HG12	23:BD:152:SER:H	1.36	0.88
26:BG:115:VAL:HG22	26:BG:116:ALA:H	1.39	0.88
26:BG:141:LEU:HD13	26:BG:147:ALA:HB3	1.52	0.88
26:BG:147:ALA:HA	26:BG:201:GLU:HA	1.56	0.88
28:BI:105:CYS:H	28:BI:112:GLN:H	1.20	0.88
29:BJ:91:ARG:HE	29:BJ:169:ASP:HB2	1.36	0.88
37:BR:91:VAL:CG2	38:BS:17:ARG:HA	2.02	0.88
41:BV:106:ALA:HA	41:BV:108:TYR:CD1	2.09	0.88
47:B9:22:ARG:NH2	47:B9:25:VAL:HB	1.88	0.88
1:AA:499:A:HO2'	1:AA:500:G:H5'	1.35	0.88
16:AQ:111:SER:HB2	16:AQ:112:PRO:HD3	1.53	0.88
18:B3:26:U:O2'	18:B3:1320:U:C6	2.26	0.88
18:B3:262:A:C6	26:BG:191:GLN:NE2	2.41	0.88
18:B3:488:U:OP1	40:BU:90:VAL:HG22	1.72	0.88
18:B3:751:U:H5'	23:BD:36:THR:HG21	1.53	0.88
18:B3:882:A:C5'	45:BY:1:GLY:C	2.42	0.88
18:B3:920:C:OP1	41:BV:38:HIS:ND1	2.07	0.88
18:B3:1153:C:OP2	18:B3:1155:G:N7	2.06	0.88
18:B3:1309:U:O3'	23:BD:203:GLY:C	2.11	0.88
18:B3:1508:C:H4'	39:BT:77:ASP:HB2	1.53	0.88
18:B3:2345:A:N3	29:BJ:23:GLY:O	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2460:A:O4'	46:BZ:59:LYS:HB3	1.72	0.88
21:BB:110:THR:HG23	21:BB:112:VAL:HG23	1.56	0.88
23:BD:10:LEU:HD11	23:BD:155:LEU:HB2	1.55	0.88
28:BI:156:ARG:HD2	28:BI:163:GLN:N	1.89	0.88
34:BO:62:VAL:HG21	34:BO:87:VAL:CB	2.04	0.88
1:AA:105:G:O2'	1:AA:379:C:O3'	1.90	0.88
1:AA:319:G:N9	1:AA:1434:A:C2	2.40	0.88
1:AA:1301:U:C4'	13:AM:30:TYR:N	2.37	0.88
1:AA:1405:G:C5	1:AA:1519:A:O4'	2.25	0.88
1:AA:1496:C:O2	1:AA:1518:A:N9	2.06	0.88
18:B3:678:G:C8	23:BD:259:GLN:HG3	2.08	0.88
18:B3:1139:U:H4'	27:BH:62:ARG:HE	1.37	0.88
18:B3:1206:C:N3	18:B3:1207:A:C2	2.30	0.88
18:B3:1285:U:H4'	25:BF:155:ILE:HD11	1.56	0.88
18:B3:1652:C:O2'	21:BB:187:LYS:HG3	1.73	0.88
18:B3:1671:U:C5	39:BT:108:LYS:NZ	2.41	0.88
18:B3:2350:G:H22	29:BJ:116:ASP:CB	1.76	0.88
19:B4:49:G:P	24:BE:158:ARG:CG	2.60	0.88
20:BA:157:PHE:CE2	20:BA:165:LEU:HD22	2.08	0.88
21:BB:177:PRO:HB3	47:B9:22:ARG:NE	1.86	0.88
25:BF:105:LEU:HB2	25:BF:107:LEU:HD11	1.55	0.88
27:BH:34:LEU:HD12	27:BH:150:SER:HB3	1.55	0.88
29:BJ:51:TYR:O	29:BJ:58:ILE:HA	1.73	0.88
35:BP:105:LEU:CD2	35:BP:137:LEU:HD11	2.04	0.88
1:AA:35:G:H5'	12:AL:128:SER:HB2	1.55	0.88
1:AA:190(D):U:O4	16:AQ:112:PRO:CG	2.21	0.88
1:AA:553:A:C4	12:AL:46:SER:CA	2.46	0.88
1:AA:1118:C:H5"	9:AI:118:ALA:CB	2.04	0.88
1:AA:1224:G:C2	13:AM:137:HIS:CD2	2.44	0.88
1:AA:1301:U:C5'	13:AM:29:VAL:C	2.39	0.88
3:AB:37:PHE:HB3	3:AB:46:VAL:HG13	1.56	0.88
3:AB:139:ASN:CA	8:AH:69:ASN:O	2.21	0.88
5:AD:86:LEU:HB3	5:AD:96:VAL:HG13	1.55	0.88
10:AJ:71:PRO:HA	14:AN:30:VAL:H	1.37	0.88
18:B3:540:A:O5'	42:B0:15:LYS:CE	2.12	0.88
18:B3:906:C:N3	18:B3:1328:A:C4	2.42	0.88
18:B3:921:G:H5'	41:BV:42:ILE:H	1.11	0.88
18:B3:951:A:C5'	36:BQ:43:LYS:HD3	2.03	0.88
18:B3:1117:A:OP2	18:B3:1225:C:N3	1.77	0.88
18:B3:1227:C:C4'	32:BM:132:ARG:CZ	2.51	0.88
18:B3:2048:C:C5'	33:BN:68:ARG:CD	2.48	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2370:A:H61	36:BQ:49:GLN:HE22	0.90	0.88
18:B3:2820:A:C4'	22:BC:90:GLY:H	1.87	0.88
19:B4:50:G:OP2	24:BE:94:ASN:O	1.72	0.88
21:BB:82:HIS:HD2	47:B9:62:THR:C	1.77	0.88
21:BB:116:GLU:HG2	21:BB:162:ARG:HE	1.36	0.88
22:BC:282:TYR:CD2	22:BC:324:LYS:HB3	2.09	0.88
25:BF:152:PHE:CB	25:BF:200:PHE:HB2	2.02	0.88
26:BG:132:LYS:CG	26:BG:141:LEU:HD23	2.04	0.88
27:BH:63:LYS:CE	32:BM:129:LYS:HD2	2.04	0.88
28:BI:38:LYS:CG	28:BI:40:LYS:HE3	2.03	0.88
28:BI:103:LEU:HB2	28:BI:118:ALA:CB	2.02	0.88
31:BL:82:LYS:HE3	46:BZ:49:PHE:CD1	1.77	0.88
42:B0:64:LYS:HE3	42:B0:65:PHE:CE1	2.08	0.88
1:AA:111:G:C2	1:AA:389:A:H5'	2.09	0.88
1:AA:132:C:O2'	1:AA:262:A:H2'	1.74	0.88
16:AQ:124:VAL:CG2	16:AQ:136:PHE:HB3	2.02	0.88
18:B3:35:U:H5'	23:BD:49:TYR:CA	2.04	0.88
18:B3:106:A:H5"	44:BX:60:GLU:OE2	1.72	0.88
18:B3:518:G:C5'	18:B3:1338:U:H1'	2.04	0.88
18:B3:541:C:C3'	42:B0:15:LYS:HB2	2.04	0.88
18:B3:875:A:N9	21:BB:203:MET:HE1	1.89	0.88
18:B3:903:U:O4	41:BV:15:SER:HB2	1.69	0.88
18:B3:1019:C:H4'	36:BQ:61:THR:CG2	2.03	0.88
18:B3:1189:A:O2'	18:B3:1209:C:H5'	1.74	0.88
18:B3:1467:C:OP1	31:BL:33:ASN:CG	2.12	0.88
18:B3:2264:A:C5'	31:BL:92:LYS:HZ2	1.86	0.88
18:B3:2381:C:C2'	46:BZ:10:TYR:CD1	2.47	0.88
18:B3:2558:G:C1'	18:B3:2799:A:O2'	2.22	0.88
19:B4:5:G:C3'	24:BE:27:LYS:HZ1	1.85	0.88
19:B4:6:C:O2	24:BE:72:ASP:OD2	1.91	0.88
19:B4:13:A:O2'	24:BE:20:PHE:HZ	1.44	0.88
19:B4:85:A:O3'	25:BF:218:LYS:HD2	1.74	0.88
21:BB:177:PRO:CG	47:B9:25:VAL:CG2	2.51	0.88
22:BC:219:VAL:HG13	22:BC:272:HIS:H	1.36	0.88
23:BD:181:LEU:HD12	23:BD:202:ARG:HA	1.55	0.88
26:BG:162:VAL:HA	26:BG:165:LEU:CD2	2.04	0.88
33:BN:47:LEU:HD12	33:BN:87:VAL:HG13	1.54	0.88
39:BT:85:VAL:HG22	39:BT:86:SER:H	1.37	0.88
1:AA:1087:G:OP1	1:AA:1389:C:C1'	2.21	0.88
6:AE:219:ASN:OD1	8:AH:128:VAL:O	1.58	0.88
10:AJ:73:GLY:HA2	14:AN:25:SER:HB3	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:23:ASP:CB	13:AM:31:ALA:HB1	2.04	0.88
16:AQ:93:ILE:CD1	16:AQ:96:TYR:HB2	2.01	0.88
18:B3:100:C:H1'	40:BU:24:SER:CA	2.04	0.88
18:B3:659:A:OP1	34:BO:107:THR:HG22	1.74	0.88
18:B3:671:A:C5'	23:BD:212:ASN:HA	2.04	0.88
18:B3:698:A:H5"	41:BV:114:LYS:CB	2.04	0.88
18:B3:782:G:C4'	21:BB:189:ARG:NH1	2.35	0.88
18:B3:841:A:H62	33:BN:132:HIS:C	1.60	0.88
18:B3:881:C:O2	45:BY:7:PHE:CZ	2.26	0.88
18:B3:919:U:C2	41:BV:41:ARG:CB	2.56	0.88
18:B3:1311:G:N7	23:BD:185:LYS:HG3	1.87	0.88
18:B3:1343:C:C2'	23:BD:188:ALA:CB	2.51	0.88
18:B3:2283:G:C6	28:BI:105:CYS:HB3	2.09	0.88
18:B3:2382:A:N9	46:BZ:10:TYR:CE2	2.42	0.88
20:BA:154:THR:OG1	20:BA:160:LYS:N	2.07	0.88
22:BC:365:GLY:C	38:BS:33:ASN:HB3	1.94	0.88
23:BD:33:ILE:CG2	23:BD:120:ALA:HB2	2.02	0.88
23:BD:196:ARG:HG3	23:BD:198:TRP:CD2	2.08	0.88
23:BD:215:VAL:HG13	23:BD:218:LEU:HB2	1.55	0.88
24:BE:183:TRP:CB	24:BE:187:THR:HA	2.03	0.88
31:BL:66:ARG:HB3	31:BL:67:ARG:NH2	1.89	0.88
47:B9:32:GLN:HG2	47:B9:68:TYR:HB2	1.53	0.88
1:AA:57:G:H1'	1:AA:368:U:O2	1.72	0.87
1:AA:989:C:C6	1:AA:1016:A:C6	2.61	0.87
2:AT:140:GLU:HB2	2:AT:481:MET:HG2	1.54	0.87
4:AC:10:LEU:HD23	4:AC:11:VAL:H	1.39	0.87
18:B3:449:A:O5'	18:B3:1349:G:N2	2.06	0.87
18:B3:1308:A:HO2'	23:BD:204:PRO:HB3	1.08	0.87
18:B3:1741:U:O3'	18:B3:2723:G:O3'	1.92	0.87
18:B3:2214:A:C2'	20:BA:106:LYS:HB3	2.03	0.87
18:B3:2459:G:OP1	46:BZ:86:ARG:HD2	1.71	0.87
18:B3:2578:G:C8	18:B3:2801:A:H4'	2.08	0.87
18:B3:2762:C:C2	37:BR:83:LYS:HE3	2.07	0.87
18:B3:2780:C:O2'	27:BH:159:ALA:CB	2.21	0.87
21:BB:97:VAL:CG2	21:BB:165:ILE:HG21	2.03	0.87
21:BB:149:LEU:HD12	21:BB:153:ALA:HB3	1.55	0.87
22:BC:70:GLU:OE2	37:BR:11:PHE:HE1	1.52	0.87
22:BC:85:VAL:HB	22:BC:159:VAL:CG2	2.03	0.87
27:BH:9:GLN:HA	27:BH:54:LYS:CB	2.04	0.87
28:BI:53:VAL:CG2	28:BI:164:LYS:HB3	2.04	0.87
29:BJ:75:ALA:CB	29:BJ:78:ILE:HD11	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:64:GLN:HB2	39:BT:65:PRO:HD2	1.53	0.87
40:BU:73:VAL:HG12	40:BU:74:TYR:H	1.35	0.87
42:B0:19:ARG:HA	42:B0:19:ARG:HH11	1.39	0.87
1:AA:679:C:O4'	11:AK:125:THR:HG21	1.75	0.87
1:AA:826:C:H5'	8:AH:27:ARG:NH1	1.89	0.87
1:AA:988:G:H2'	1:AA:1015:A:C5	2.07	0.87
1:AA:1343:G:H5'	9:AI:138:GLN:C	1.93	0.87
1:AA:1496:C:C5	1:AA:1517:G:N2	2.19	0.87
1:AA:1497:G:H8	1:AA:1517:G:O6	1.56	0.87
13:AM:88:ARG:CZ	13:AM:115:ARG:NH1	2.38	0.87
18:B3:107:U:C5	44:BX:60:GLU:O	2.28	0.87
18:B3:401:C:O4'	31:BL:94:GLN:HA	1.72	0.87
18:B3:471:G:H5"	45:BY:15:HIS:NE2	1.89	0.87
18:B3:1164:U:OP1	30:BK:50:THR:CB	2.22	0.87
18:B3:1370:G:N7	33:BN:27:ASN:OD1	2.07	0.87
18:B3:1397:C:O3'	35:BP:23:LEU:HB3	1.73	0.87
18:B3:2652:U:O2'	22:BC:257:ALA:CB	2.21	0.87
19:B4:68:G:O3'	24:BE:13:SER:CB	2.21	0.87
22:BC:92:VAL:CG2	22:BC:154:ALA:HA	1.99	0.87
27:BH:48:VAL:CA	27:BH:53:ILE:HG22	2.04	0.87
33:BN:13:SER:HB2	33:BN:149:VAL:HG11	1.55	0.87
33:BN:104:LYS:HB3	33:BN:106:LEU:HD11	1.53	0.87
39:BT:124:ARG:HB3	39:BT:124:ARG:CZ	2.03	0.87
40:BU:30:LEU:HD13	40:BU:78:PHE:CE1	2.08	0.87
43:BW:53:GLU:HG3	43:BW:54:LEU:H	1.37	0.87
1:AA:12:U:C5'	1:AA:526:C:O4'	2.20	0.87
1:AA:318:G:N2	1:AA:1433:A:C6	2.42	0.87
1:AA:400:C:O2	1:AA:622:A:H2'	1.73	0.87
1:AA:518:C:O2	12:AL:65:ASN:HA	1.74	0.87
1:AA:989:C:H1'	1:AA:1015:A:H2'	1.57	0.87
2:AT:144:ARG:CD	2:AT:482:LYS:HA	2.05	0.87
18:B3:67:A:N3	39:BT:60:LYS:CE	2.36	0.87
18:B3:675:U:H2'	23:BD:233:ASN:ND2	1.89	0.87
18:B3:782:G:H4'	21:BB:189:ARG:HH12	1.38	0.87
18:B3:1652:C:C6	21:BB:173:ARG:NH1	2.41	0.87
18:B3:1806:G:C3'	18:B3:2884:G:H21	1.84	0.87
18:B3:1853:C:H5"	21:BB:238:ALA:O	1.73	0.87
20:BA:169:VAL:CG2	20:BA:179:LEU:HD21	2.04	0.87
23:BD:130:VAL:HG13	23:BD:134:VAL:HG23	1.56	0.87
30:BK:37:LEU:CD2	30:BK:42:VAL:HG21	2.00	0.87
43:BW:15:LEU:HA	43:BW:19:LEU:CD1	2.01	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:924:C:H1'	1:AA:1398:A:C4	2.07	0.87
1:AA:959:A:C8	17:AS:100:LYS:HB3	2.08	0.87
1:AA:1483:A:O3'	18:B3:2001:G:N3	2.07	0.87
2:AT:463:LEU:C	2:AT:513:LYS:HZ2	1.77	0.87
10:AJ:52:LYS:HE2	10:AJ:93:LEU:HD13	1.55	0.87
18:B3:219:G:OP1	46:BZ:41:ARG:NH2	2.07	0.87
18:B3:449:A:H2'	18:B3:1350:U:O2	1.74	0.87
18:B3:635:A:H5'	23:BD:91:ASN:OD1	1.42	0.87
18:B3:921:G:N3	41:BV:40:HIS:CB	2.38	0.87
18:B3:1010:C:O3'	24:BE:15:ARG:NE	2.07	0.87
18:B3:1168:C:O5'	30:BK:114:ARG:NH1	1.97	0.87
18:B3:1308:A:N6	23:BD:201:ARG:CZ	2.38	0.87
18:B3:1310:U:O4	23:BD:201:ARG:CB	2.22	0.87
18:B3:1875:A:H5"	21:BB:127:ARG:HH22	0.98	0.87
18:B3:2214:A:C2'	20:BA:106:LYS:CG	2.50	0.87
18:B3:2381:C:H2'	46:BZ:10:TYR:CD2	2.10	0.87
18:B3:2676:C:H5'	32:BM:73:ARG:NH2	1.89	0.87
18:B3:2704:C:C2	27:BH:121:LYS:HB2	2.10	0.87
18:B3:2796:U:H5'	27:BH:156:GLN:HE21	1.38	0.87
18:B3:2890:A:H5"	18:B3:2890:A:H8	1.37	0.87
22:BC:145:ARG:HA	22:BC:145:ARG:NH1	1.90	0.87
22:BC:357:TRP:CA	38:BS:15:PRO:HB3	2.05	0.87
23:BD:30:ARG:CB	23:BD:33:ILE:HD13	2.05	0.87
26:BG:105:LYS:HB2	26:BG:108:LEU:CD2	2.05	0.87
33:BN:59:PHE:CD2	33:BN:80:ALA:HA	2.09	0.87
37:BR:15:LEU:HG	37:BR:51:ALA:HB1	1.54	0.87
41:BV:135:GLU:HB3	41:BV:136:LYS:HZ3	1.39	0.87
44:BX:18:ALA:HA	44:BX:21:LEU:HD13	1.54	0.87
47:B9:48:ARG:CA	47:B9:54:TRP:HB3	1.99	0.87
1:AA:547:A:O5'	5:AD:19:TYR:O	1.83	0.87
1:AA:553:A:C2'	12:AL:45:GLY:HA2	1.91	0.87
1:AA:1221:G:O2'	17:AS:96:ILE:O	1.70	0.87
1:AA:1320:C:H42	17:AS:116:LEU:HB2	1.04	0.87
2:AT:29:ASP:CG	18:B3:2693:U:P	2.53	0.87
2:AT:757:GLU:HB2	18:B3:1171:A:H1'	1.54	0.87
5:AD:102:GLU:CA	5:AD:190:GLU:HB2	2.04	0.87
7:AG:186:ILE:HG23	7:AG:188:THR:H	1.37	0.87
18:B3:68:U:O4'	44:BX:55:LEU:HB2	1.68	0.87
18:B3:449:A:H2'	23:BD:46:ARG:CZ	2.04	0.87
18:B3:487:G:C2'	40:BU:90:VAL:HG11	2.03	0.87
18:B3:671:A:H5"	23:BD:212:ASN:O	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:700:A:OP2	41:BV:115:GLY:CA	2.22	0.87
18:B3:2061:C:H5'	42:B0:24:ARG:CG	2.04	0.87
18:B3:2093:G:O2'	22:BC:253:ALA:HB1	1.06	0.87
18:B3:2336:G:N2	29:BJ:127:TYR:CD1	2.43	0.87
18:B3:2457:U:O3'	46:BZ:83:THR:CA	2.22	0.87
18:B3:2468:A:C5	46:BZ:55:PRO:CD	2.58	0.87
18:B3:2614:C:H4'	22:BC:241:THR:N	1.88	0.87
18:B3:2830:U:C1'	22:BC:126:LYS:NZ	2.37	0.87
20:BA:56:PRO:N	20:BA:155:ILE:HG22	1.51	0.87
22:BC:185:GLY:H	22:BC:190:LYS:HE3	1.38	0.87
25:BF:177:ILE:CD1	25:BF:178:LEU:HD12	2.03	0.87
31:BL:97:LEU:HD22	31:BL:97:LEU:H	1.40	0.87
33:BN:35:ILE:HB	33:BN:43:ALA:HB2	1.55	0.87
35:BP:21:VAL:HG23	35:BP:22:TRP:CH2	2.10	0.87
43:BW:31:ALA:HB1	43:BW:58:ILE:HD11	1.56	0.87
43:BW:61:ARG:CZ	43:BW:61:ARG:HB3	2.05	0.87
1:AA:125:U:OP1	1:AA:310:G:N2	2.08	0.87
1:AA:131:C:C5'	16:AQ:128:ARG:NH1	2.20	0.87
1:AA:335:C:C1'	1:AA:1434:A:H8	1.65	0.87
1:AA:1375:A:N1	7:AG:76:TYR:CE1	2.42	0.87
5:AD:85:VAL:CG1	5:AD:86:LEU:HD22	2.05	0.87
9:AI:17:ALA:CB	9:AI:80:ILE:HD13	2.04	0.87
14:AN:29:LEU:CD1	14:AN:38:CYS:HA	2.04	0.87
18:B3:697:G:H2'	41:BV:112:LEU:CD1	2.05	0.87
18:B3:1800:G:P	35:BP:69:LYS:NZ	2.47	0.87
18:B3:1816:C:C6	18:B3:2746:A:C2	2.62	0.87
18:B3:1939:U:C4'	21:BB:241:ARG:HG3	2.04	0.87
18:B3:2347:C:H1'	29:BJ:67:HIS:C	1.93	0.87
18:B3:2388:C:OP1	36:BQ:88:ARG:HB3	1.73	0.87
18:B3:2579:G:O3'	18:B3:2680:A:N7	2.06	0.87
18:B3:2596:A:HO2'	37:BR:74:MET:CE	1.86	0.87
19:B4:68:G:C2	24:BE:11:ALA:HB3	2.10	0.87
20:BA:12:HIS:CD2	20:BA:206:VAL:HG22	2.09	0.87
22:BC:92:VAL:HG22	22:BC:154:ALA:CA	2.00	0.87
27:BH:68:LEU:HB3	32:BM:127:ARG:CZ	2.05	0.87
28:BI:26:VAL:CG1	28:BI:125:LEU:HD11	2.04	0.87
29:BJ:20:ILE:HG21	29:BJ:65:ALA:CB	2.05	0.87
33:BN:43:ALA:HA	33:BN:46:TYR:CB	2.03	0.87
43:BW:28:ALA:HB3	43:BW:29:PRO:HD3	1.55	0.87
1:AA:131:C:C6	16:AQ:128:ARG:NE	2.42	0.87
1:AA:405:U:OP2	5:AD:37:LYS:HG3	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:948:C:C3'	13:AM:141:THR:HG23	1.92	0.87
1:AA:1016:A:H1'	1:AA:1216:G:H22	1.39	0.87
1:AA:1296:C:H4'	13:AM:52:VAL:O	1.73	0.87
1:AA:1322:C:OP2	13:AM:138:THR:CG2	2.21	0.87
1:AA:1341:U:O2'	9:AI:140:SER:CA	2.22	0.87
1:AA:1503:A:H5'	1:AA:1530:G:C2	2.01	0.87
2:AT:744:TYR:CE2	18:B3:1171:A:C2	2.62	0.87
3:AB:32:GLN:HE22	3:AB:152:SER:HB3	1.38	0.87
3:AB:58:LEU:HD12	3:AB:61:ARG:HH12	1.40	0.87
5:AD:162:SER:HB2	5:AD:163:PRO:HD3	1.57	0.87
8:AH:36:PHE:CD1	8:AH:102:ILE:HD13	2.10	0.87
18:B3:170:U:OP1	31:BL:82:LYS:HA	1.75	0.87
18:B3:493:U:H5'	33:BN:99:ALA:HB1	1.54	0.87
18:B3:905:C:H5"	41:BV:11:ARG:HD2	1.54	0.87
18:B3:1167:G:H4'	30:BK:111:GLU:HA	1.56	0.87
18:B3:1676:G:C4'	39:BT:115:PRO:CG	2.51	0.87
18:B3:1735:C:H5"	22:BC:244:GLY:CA	2.03	0.87
18:B3:2087:C:H4'	33:BN:78:THR:HB	1.57	0.87
18:B3:2413:A:C2'	24:BE:174:PRO:CB	2.51	0.87
18:B3:2806:C:C5'	22:BC:343:THR:OG1	2.23	0.87
18:B3:2837:U:C2	22:BC:334:ILE:CA	2.41	0.87
31:BL:32:LYS:HE2	31:BL:32:LYS:HA	1.57	0.87
31:BL:32:LYS:HG2	31:BL:36:HIS:CE1	2.08	0.87
1:AA:66:G:O4'	1:AA:173:U:O2	1.92	0.87
1:AA:190(D):U:O2'	16:AQ:109:HIS:CB	2.22	0.87
1:AA:777:A:O2'	11:AK:126:ARG:CA	2.21	0.87
1:AA:1123:A:O2'	10:AJ:56:VAL:HA	1.73	0.87
1:AA:1256:A:N6	1:AA:1278:U:H1'	1.89	0.87
2:AT:140:GLU:CA	2:AT:481:MET:N	2.37	0.87
3:AB:66:ILE:HG23	3:AB:70:GLU:CB	2.04	0.87
5:AD:95:TYR:CB	5:AD:193:GLU:HB3	2.03	0.87
18:B3:672:G:C5'	23:BD:214:ILE:HG21	2.01	0.87
18:B3:745:G:C8	34:BO:90:ASP:OD2	2.27	0.87
18:B3:1316:G:OP2	42:B0:102:ALA:CB	2.23	0.87
18:B3:1690:C:C6	33:BN:129:TYR:HD1	1.88	0.87
18:B3:1708:C:H6	35:BP:81:LYS:CG	1.81	0.87
18:B3:2136:G:N1	18:B3:2238:A:C6	2.43	0.87
18:B3:2165:G:C2'	20:BA:207:LYS:CE	2.52	0.87
18:B3:2848:G:P	22:BC:173:LYS:CD	2.62	0.87
19:B4:5:G:N2	24:BE:71:GLY:C	2.20	0.87
26:BG:112:ALA:H	26:BG:117:GLU:HB2	1.40	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:35:ASP:HA	28:BI:88:ARG:HH22	1.40	0.87
39:BT:98:VAL:HG11	39:BT:106:VAL:HG11	1.55	0.87
40:BU:101:PRO:HA	40:BU:104:LEU:HD22	1.55	0.87
41:BV:95:LYS:CG	41:BV:122:VAL:HG12	2.05	0.87
44:BX:48:ARG:CZ	44:BX:49:LYS:HB3	2.05	0.87
1:AA:129(A):G:HO2'	16:AQ:137:ASN:N	1.73	0.87
1:AA:1505:G:N3	1:AA:1506:U:H3'	1.90	0.87
9:AI:58:LYS:CD	9:AI:88:LEU:HD13	2.05	0.87
18:B3:81:G:O2'	40:BU:75:ARG:HG2	1.70	0.87
18:B3:693:A:C4'	41:BV:59:TYR:HE1	1.83	0.87
18:B3:1181:A:N3	30:BK:105:GLN:CA	2.28	0.87
18:B3:1396:C:H1'	35:BP:2:ASN:CB	2.05	0.87
18:B3:2283:G:N7	28:BI:106:ALA:HB2	1.90	0.87
18:B3:2826:G:O2'	22:BC:123:LYS:C	2.10	0.87
22:BC:281:ILE:HD11	22:BC:321:ILE:HG21	1.55	0.87
27:BH:43:VAL:HG12	32:BM:126:LEU:C	1.96	0.87
29:BJ:70:VAL:HG12	29:BJ:75:ALA:HB2	1.57	0.87
29:BJ:133:PRO:HD2	29:BJ:135:ALA:HB3	1.55	0.87
33:BN:13:SER:HB2	33:BN:149:VAL:CB	2.05	0.87
40:BU:82:VAL:HG12	40:BU:83:ASP:H	1.38	0.87
1:AA:130:A:C8	16:AQ:135:ARG:CB	2.57	0.86
1:AA:529:G:N1	12:AL:69:ARG:NH2	2.22	0.86
1:AA:826:C:C5'	8:AH:27:ARG:HH12	1.88	0.86
1:AA:860:A:C3'	8:AH:18:LYS:HZ1	1.87	0.86
1:AA:1286:A:C3'	1:AA:1287:A:H5"	2.03	0.86
1:AA:1344:C:H5'	9:AI:136:ARG:H	1.39	0.86
2:AT:738:GLN:HA	18:B3:1199:A:C6	2.09	0.86
10:AJ:73:GLY:CA	14:AN:25:SER:CB	2.49	0.86
11:AK:42:THR:HG22	11:AK:52:ASP:HB2	1.55	0.86
18:B3:72:C:H5"	44:BX:49:LYS:HE2	1.11	0.86
18:B3:288:A:H61	18:B3:364:C:H42	1.19	0.86
18:B3:433:C:C5'	31:BL:149:TRP:CE3	2.58	0.86
18:B3:948:G:O2'	36:BQ:100:LYS:CE	2.19	0.86
18:B3:1074:G:H4'	42:B0:45:ARG:HH11	1.38	0.86
18:B3:1592:G:O2'	35:BP:120:HIS:CE1	2.28	0.86
18:B3:1672:G:C5'	39:BT:91:LYS:HG2	2.04	0.86
18:B3:1708:C:H6	35:BP:81:LYS:HG2	1.04	0.86
18:B3:1794:G:O2'	35:BP:96:ARG:CG	2.21	0.86
18:B3:2101:A:C3'	23:BD:66:THR:OG1	2.15	0.86
18:B3:2552:C:O3'	18:B3:2553:A:C5'	2.15	0.86
18:B3:2736:U:H5	35:BP:61:ARG:HH11	1.19	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2846:C:H5"	22:BC:174:LYS:CE	2.05	0.86
19:B4:86:G:OP1	25:BF:218:LYS:NZ	2.07	0.86
21:BB:171:GLY:H	47:B9:67:ALA:N	1.73	0.86
22:BC:213:MET:HB2	22:BC:341:LEU:CD1	2.02	0.86
23:BD:186:LEU:HA	23:BD:199:THR:HA	1.56	0.86
25:BF:164:ASP:HB3	25:BF:180:ILE:CG2	2.04	0.86
26:BG:149:LEU:HD21	26:BG:210:LEU:CD1	2.05	0.86
26:BG:159:ILE:HG22	26:BG:161:LEU:H	1.40	0.86
27:BH:67:ALA:CB	32:BM:127:ARG:HA	2.05	0.86
29:BJ:59:ARG:CD	29:BJ:62:GLU:HA	2.04	0.86
34:BO:40:THR:CG2	34:BO:133:LYS:HB2	2.04	0.86
39:BT:96:LYS:HA	39:BT:96:LYS:HE3	1.55	0.86
39:BT:106:VAL:HB	39:BT:123:VAL:CG1	2.04	0.86
1:AA:64:G:N3	1:AA:97:G:C6	2.37	0.86
1:AA:292:G:O2'	1:AA:608:A:C5	2.28	0.86
1:AA:988:G:H4'	1:AA:1013:G:C3'	1.98	0.86
1:AA:1309:G:H8	13:AM:92:ILE:CD1	1.89	0.86
2:AT:536:LEU:HD13	18:B3:2698:G:HO2'	1.38	0.86
3:AB:81:GLY:HA2	3:AB:169:ILE:CD1	2.04	0.86
4:AC:79:ALA:HB3	4:AC:80:PRO:HD3	1.57	0.86
5:AD:99:LEU:HB2	5:AD:103:ASP:O	1.75	0.86
6:AE:113:GLY:HA3	6:AE:130:ILE:HG23	1.55	0.86
7:AG:111:ARG:HH22	9:AI:41:GLU:CB	1.88	0.86
13:AM:100:THR:HG23	13:AM:105:VAL:CG2	2.05	0.86
18:B3:111:C:H4'	18:B3:119:A:C6	2.09	0.86
18:B3:672:G:C1'	23:BD:214:ILE:CG2	2.44	0.86
18:B3:1206:C:C5	18:B3:1207:A:N7	2.37	0.86
18:B3:1428:C:H5"	33:BN:124:GLN:NE2	1.89	0.86
18:B3:1566:C:OP1	35:BP:59:LYS:HG2	1.74	0.86
18:B3:2436:U:H5"	46:BZ:70:ARG:NH1	1.89	0.86
18:B3:2737:C:N4	35:BP:61:ARG:NE	2.23	0.86
22:BC:261:TRP:CB	22:BC:263:VAL:HG22	2.04	0.86
22:BC:360:THR:N	38:BS:14:TYR:CG	2.43	0.86
23:BD:214:ILE:HD13	23:BD:214:ILE:H	1.38	0.86
24:BE:95:TRP:HB3	24:BE:99:TYR:HE2	1.39	0.86
29:BJ:95:PHE:HA	29:BJ:101:PHE:CD2	2.09	0.86
31:BL:25:ARG:CD	31:BL:26:VAL:H	1.88	0.86
32:BM:58:ARG:HD2	32:BM:60:ALA:CB	2.04	0.86
35:BP:51:LYS:HE3	35:BP:51:LYS:HA	1.57	0.86
47:B9:45:THR:HB	47:B9:57:SER:HB3	1.57	0.86
47:B9:52:GLY:HA2	47:B9:54:TRP:CZ3	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:55:THR:CG2	47:B9:63:VAL:HG23	2.05	0.86
1:AA:643:C:O2'	8:AH:123:LYS:NZ	2.07	0.86
1:AA:1305:G:N2	13:AM:40:ARG:NH1	2.22	0.86
1:AA:1316:G:N2	17:AS:49:MET:CE	2.38	0.86
5:AD:99:LEU:HD23	5:AD:104:PHE:N	1.90	0.86
9:AI:100:SER:HA	9:AI:116:LEU:CD2	2.04	0.86
18:B3:1316:G:H5"	42:B0:101:SER:HB3	0.91	0.86
18:B3:1396:C:C1'	35:BP:2:ASN:HB2	2.05	0.86
18:B3:1714:C:H5'	18:B3:2745:C:C1'	2.05	0.86
18:B3:1809:G:C4'	18:B3:2731:G:H5'	2.05	0.86
18:B3:2669:U:H4'	22:BC:130:THR:HA	1.57	0.86
21:BB:201:VAL:HG11	21:BB:216:GLN:HA	1.57	0.86
34:BO:81:VAL:CG2	34:BO:140:LEU:HD12	2.03	0.86
41:BV:39:HIS:HB3	41:BV:42:ILE:HD12	1.55	0.86
43:BW:7:VAL:H	43:BW:74:ILE:HG22	1.39	0.86
1:AA:14:U:H5'	1:AA:915:A:OP2	1.75	0.86
1:AA:523:A:C2	12:AL:116:ASP:N	2.37	0.86
1:AA:1162:C:C2	9:AI:108:PHE:CE2	2.63	0.86
10:AJ:70:THR:HG1	14:AN:36:ASN:HB3	1.09	0.86
18:B3:92:G:H5"	44:BX:43:LYS:CE	2.02	0.86
18:B3:99:A:C6	40:BU:24:SER:O	2.29	0.86
18:B3:620:A:OP1	42:B0:41:VAL:CG1	2.21	0.86
18:B3:771:G:OP1	31:BL:76:LYS:CD	2.24	0.86
18:B3:772:G:N3	45:BY:46:TYR:CZ	2.43	0.86
18:B3:1335:C:OP1	42:B0:100:ILE:HG21	1.75	0.86
18:B3:1370:G:C4'	33:BN:62:PHE:CE1	2.49	0.86
18:B3:1806:G:N2	18:B3:2883:A:C3'	1.81	0.86
18:B3:1874:U:P	21:BB:127:ARG:HG2	2.11	0.86
18:B3:2214:A:O2'	20:BA:106:LYS:HB3	1.74	0.86
18:B3:2737:C:C5	35:BP:61:ARG:CZ	2.57	0.86
19:B4:30:C:C2	24:BE:57:ASN:OD1	2.24	0.86
19:B4:99:U:C5'	25:BF:222:PHE:HE1	1.85	0.86
28:BI:48:LEU:HD23	28:BI:49:CYS:N	1.90	0.86
35:BP:94:TRP:NE1	35:BP:98:LEU:HD13	1.90	0.86
42:B0:87:MET:CB	42:B0:117:ILE:HA	2.05	0.86
1:AA:130:A:N7	16:AQ:135:ARG:CA	2.37	0.86
1:AA:144:G:O6	1:AA:199:G:H5'	1.75	0.86
1:AA:436:C:O2	1:AA:496:A:C2'	2.18	0.86
1:AA:865:A:OP1	1:AA:1078:U:H1'	0.94	0.86
1:AA:1220:G:H3'	17:AS:78:THR:O	1.75	0.86
1:AA:1297:C:H6	13:AM:53:ASP:OD2	1.53	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1320:C:H1'	17:AS:119:PHE:CD1	2.10	0.86
1:AA:1343:G:C5'	9:AI:137:PHE:C	2.43	0.86
3:AB:141:PRO:CD	8:AH:68:LEU:CD2	2.43	0.86
5:AD:157:ASP:HB3	5:AD:160:PRO:CG	2.06	0.86
17:AS:56:PHE:HB2	17:AS:80:MET:HG3	1.57	0.86
18:B3:390:G:OP1	46:BZ:47:SER:HB3	1.75	0.86
18:B3:499:G:H4'	33:BN:19:SER:CB	2.06	0.86
18:B3:678:G:H5'	23:BD:256:LYS:CB	2.00	0.86
18:B3:843:A:H5"	33:BN:130:ARG:CG	2.06	0.86
18:B3:1074:G:C5'	42:B0:45:ARG:HD2	2.06	0.86
18:B3:1137:G:C4	18:B3:2785:C:C5	2.46	0.86
18:B3:1861:C:O3'	21:BB:7:GLN:HB2	1.76	0.86
18:B3:2557:U:O2	18:B3:2800:A:C8	2.28	0.86
18:B3:2822:C:H4'	22:BC:132:TYR:O	1.75	0.86
22:BC:56:VAL:HG22	37:BR:89:ASP:C	1.96	0.86
25:BF:85:VAL:CG2	25:BF:133:VAL:HG21	2.06	0.86
26:BG:157:ASP:HB2	26:BG:159:ILE:CG1	2.05	0.86
27:BH:7:GLU:CB	27:BH:56:ALA:HB2	2.04	0.86
28:BI:140:THR:HG22	28:BI:141:LYS:H	1.38	0.86
33:BN:111:LEU:HB3	33:BN:150:THR:CG2	2.06	0.86
34:BO:64:VAL:HG22	34:BO:89:ASP:HA	1.56	0.86
1:AA:924:C:N1	1:AA:1398:A:C2	2.43	0.86
5:AD:42:ILE:HG22	5:AD:48:GLN:HB2	1.57	0.86
5:AD:179:ARG:HD2	5:AD:182:GLU:CG	2.05	0.86
10:AJ:49:ASN:ND2	10:AJ:93:LEU:HD11	1.89	0.86
14:AN:20:CYS:CB	14:AN:29:LEU:HG	2.06	0.86
18:B3:81:G:H5'	40:BU:74:TYR:CA	2.05	0.86
18:B3:111:C:C3'	18:B3:119:A:N6	2.37	0.86
18:B3:919:U:O3'	41:BV:38:HIS:HB2	1.76	0.86
18:B3:921:G:C5'	41:BV:42:ILE:H	1.82	0.86
18:B3:1381:A:C2	43:BW:25:LYS:O	2.28	0.86
18:B3:2348:C:H5'	29:BJ:68:VAL:O	1.76	0.86
18:B3:2719:A:H8	38:BS:17:ARG:NH2	1.70	0.86
18:B3:2817:G:O5'	22:BC:96:ARG:CZ	2.08	0.86
19:B4:86:G:C5	25:BF:220:LYS:HG3	2.11	0.86
21:BB:177:PRO:HG3	47:B9:25:VAL:CG2	2.05	0.86
22:BC:260:MET:HE2	32:BM:66:THR:CG2	2.05	0.86
26:BG:107:ARG:HG3	26:BG:108:LEU:HD22	1.55	0.86
28:BI:31:ILE:CD1	28:BI:65:LEU:HG	2.05	0.86
28:BI:72:ALA:HA	28:BI:154:ARG:CZ	2.06	0.86
28:BI:140:THR:HG22	28:BI:141:LYS:HD2	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:71:ARG:NH1	29:BJ:75:ALA:HB3	1.91	0.86
29:BJ:83:LEU:HD12	29:BJ:166:TYR:HE1	1.41	0.86
31:BL:168:LYS:CE	31:BL:169:LYS:HG2	2.06	0.86
32:BM:133:LYS:HD3	32:BM:133:LYS:H	1.40	0.86
34:BO:87:VAL:HG13	34:BO:106:PHE:HB3	1.57	0.86
42:B0:100:ILE:HD13	42:B0:100:ILE:H	1.40	0.86
45:BY:17:LEU:HA	45:BY:24:ARG:CA	2.06	0.86
46:BZ:73:CYS:N	46:BZ:79:ARG:HG3	1.91	0.86
1:AA:405:U:H3	5:AD:26:ALA:C	1.78	0.86
1:AA:449:C:O4'	5:AD:131:GLN:C	2.12	0.86
9:AI:47:VAL:HG13	9:AI:81:ARG:N	1.90	0.86
17:AS:109:PRO:HA	17:AS:112:LEU:CD1	2.06	0.86
18:B3:903:U:N3	41:BV:15:SER:CA	2.30	0.86
18:B3:1225:C:H5"	18:B3:1248:A:H2	1.40	0.86
18:B3:1381:A:N6	43:BW:24:PHE:O	2.08	0.86
18:B3:1597:A:O2'	35:BP:94:TRP:CH2	2.29	0.86
18:B3:1736:A:OP1	22:BC:243:ARG:HB2	1.76	0.86
18:B3:1874:U:C5'	21:BB:127:ARG:CG	2.54	0.86
18:B3:2164:G:OP1	20:BA:162:VAL:HG11	1.74	0.86
18:B3:2547:C:H6	22:BC:235:LYS:HE3	1.38	0.86
18:B3:2652:U:O2'	22:BC:257:ALA:HB2	1.74	0.86
18:B3:2668:G:H4'	22:BC:128:ALA:HB2	1.57	0.86
18:B3:2819:C:H2'	22:BC:101:LEU:H	1.39	0.86
22:BC:295:THR:HG22	22:BC:296:SER:H	1.39	0.86
22:BC:358:ILE:C	38:BS:15:PRO:HB2	1.90	0.86
28:BI:32:ARG:HG2	28:BI:33:ILE:CD1	2.04	0.86
31:BL:67:ARG:HB2	31:BL:67:ARG:HH11	1.39	0.86
32:BM:26:LEU:CG	32:BM:101:LEU:HD12	2.04	0.86
33:BN:111:LEU:HD23	33:BN:150:THR:HG21	1.58	0.86
37:BR:40:LYS:CG	37:BR:57:MET:HB3	2.06	0.86
45:BY:27:HIS:HB2	45:BY:30:LYS:CG	2.05	0.86
1:AA:551:U:H4'	12:AL:107:PHE:CD2	2.11	0.86
1:AA:554:C:N1	12:AL:45:GLY:CA	2.34	0.86
1:AA:950:U:C5	13:AM:140:THR:HB	2.11	0.86
1:AA:1101:A:H61	3:AB:102:THR:CG2	1.87	0.86
1:AA:1305:G:O2'	1:AA:1306:A:H8	1.56	0.86
8:AH:101:VAL:CG1	8:AH:112:HIS:HB3	2.05	0.86
9:AI:46:LYS:HB3	9:AI:49:GLU:HG2	1.58	0.86
10:AJ:38:SER:HB2	10:AJ:91:ILE:CD1	2.06	0.86
17:AS:124:THR:HG22	17:AS:126:VAL:H	1.41	0.86
18:B3:449:A:H61	18:B3:1349:G:H3'	1.40	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:638:C:H5”	42:B0:27:ARG:CB	2.06	0.86
18:B3:1167:G:H1’	30:BK:111:GLU:N	1.91	0.86
18:B3:1206:C:H2’	18:B3:1207:A:N9	1.89	0.86
18:B3:1706:G:OP1	35:BP:65:HIS:ND1	2.09	0.86
18:B3:1899:C:C1’	21:BB:223:THR:OG1	2.24	0.86
18:B3:2099:G:H3’	23:BD:68:ARG:CZ	2.04	0.86
18:B3:2165:G:O3’	20:BA:33:GLU:HB3	1.75	0.86
18:B3:2382:A:N9	46:BZ:10:TYR:HE2	1.73	0.86
18:B3:2388:C:O5’	36:BQ:88:ARG:CZ	2.00	0.86
18:B3:2435:U:H4’	46:BZ:27:TYR:HE2	1.40	0.86
19:B4:87:U:C1’	25:BF:217:ARG:NH2	2.37	0.86
21:BB:82:HIS:CD2	47:B9:62:THR:C	2.49	0.86
21:BB:195:TRP:CD2	21:BB:196:PRO:HA	2.11	0.86
22:BC:166:ARG:HD2	22:BC:167:LYS:H	1.41	0.86
25:BF:167:ILE:CB	25:BF:179:SER:HB3	2.03	0.86
26:BG:141:LEU:HD13	26:BG:147:ALA:CB	2.06	0.86
33:BN:88:LYS:HE3	33:BN:89:PHE:HD2	1.41	0.86
40:BU:57:LEU:HD11	40:BU:105:VAL:CG2	2.06	0.86
1:AA:190(E):U:N3	16:AQ:131:SER:N	2.21	0.86
1:AA:318:G:C1’	1:AA:1468:A:O4’	2.21	0.86
1:AA:1179:A:P	9:AI:116:LEU:CD2	2.64	0.86
1:AA:1301:U:O2’	13:AM:29:VAL:CG2	2.21	0.86
1:AA:1497:G:O2’	1:AA:1498:U:H5’	1.74	0.86
18:B3:537:G:O4’	42:B0:21:HIS:NE2	2.09	0.86
18:B3:540:A:H5”	42:B0:18:LYS:N	1.91	0.86
18:B3:671:A:H5”	23:BD:212:ASN:C	1.96	0.86
18:B3:2663:U:C1’	18:B3:2816:A:N7	2.26	0.86
18:B3:2668:G:O3’	22:BC:128:ALA:HB3	1.74	0.86
19:B4:98:C:C2’	25:BF:222:PHE:CE1	2.51	0.86
21:BB:97:VAL:HA	21:BB:165:ILE:CG1	2.06	0.86
21:BB:116:GLU:OE1	21:BB:162:ARG:HG3	1.76	0.86
24:BE:199:ILE:HG22	24:BE:223:PHE:HD2	1.39	0.86
25:BF:177:ILE:HG23	25:BF:182:ASP:HB3	1.58	0.86
28:BI:65:LEU:HD11	28:BI:69:ARG:HB3	1.57	0.86
30:BK:80:LEU:HB3	30:BK:112:ILE:HD12	1.54	0.86
32:BM:42:ILE:HD11	32:BM:136:THR:HG21	1.57	0.86
33:BN:17:ARG:CD	33:BN:93:LEU:HB2	2.06	0.86
43:BW:27:ARG:HB3	43:BW:66:VAL:CG2	2.06	0.86
1:AA:99:C:C1’	1:AA:101:A:N6	2.38	0.86
1:AA:1179:A:OP1	9:AI:116:LEU:CG	2.24	0.86
1:AA:1298:C:C3’	13:AM:57:ARG:HH22	1.89	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:108:HIS:CA	2:AT:536:LEU:HD21	2.05	0.86
7:AG:111:ARG:HH22	9:AI:41:GLU:HB2	1.39	0.86
10:AJ:70:THR:CB	14:AN:41:CYS:N	2.39	0.86
18:B3:1315:G:N2	42:B0:107:VAL:HB	1.91	0.86
18:B3:1344:G:N3	23:BD:187:ARG:CZ	2.04	0.86
18:B3:1875:A:H5'	21:BB:127:ARG:NH2	1.87	0.86
18:B3:2165:G:H1'	20:BA:207:LYS:CE	2.05	0.86
18:B3:2709:G:C8	37:BR:7:GLN:HG3	2.11	0.86
18:B3:2853:U:C5'	22:BC:170:LEU:HG	2.06	0.86
19:B4:85:A:H2'	25:BF:219:PHE:O	1.76	0.86
19:B4:86:G:N3	25:BF:220:LYS:HG3	1.64	0.86
31:BL:175:LYS:HE3	31:BL:176:GLY:H	1.40	0.86
31:BL:177:HIS:HD2	31:BL:178:LYS:HG2	1.41	0.86
47:B9:56:CYS:SG	47:B9:60:LYS:HA	2.16	0.86
1:AA:33:A:C2	12:AL:47:SER:OG	2.28	0.85
1:AA:69:G:O2'	1:AA:171:A:C6	2.28	0.85
1:AA:190(D):U:O2	16:AQ:111:SER:N	2.09	0.85
1:AA:755:G:P	15:AO:123:ARG:CD	2.60	0.85
1:AA:989:C:H1'	1:AA:1015:A:C2'	2.05	0.85
1:AA:1309:G:C8	13:AM:92:ILE:HG13	2.10	0.85
2:AT:112:SER:HB2	2:AT:537:HIS:CG	2.09	0.85
2:AT:140:GLU:CB	2:AT:481:MET:CA	2.54	0.85
11:AK:56:PRO:HD3	11:AK:88:THR:HG21	1.58	0.85
18:B3:944:G:H5"	25:BF:97:LYS:HG2	1.58	0.85
18:B3:1090:A:H5'	42:B0:55:ILE:CD1	2.05	0.85
18:B3:1099:G:OP1	25:BF:217:ARG:NH2	2.09	0.85
18:B3:1335:C:H5'	42:B0:96:ILE:O	1.76	0.85
18:B3:2136:G:C2	18:B3:2238:A:N6	2.43	0.85
18:B3:2310:G:O2'	28:BI:119:TRP:NE1	2.07	0.85
18:B3:2520:G:P	28:BI:160:PRO:HG3	2.15	0.85
18:B3:2561:C:C5'	18:B3:2777:G:O3'	2.24	0.85
18:B3:2670:G:N2	22:BC:91:TYR:OH	2.08	0.85
18:B3:2819:C:H5'	22:BC:99:ARG:NH2	1.91	0.85
18:B3:2820:A:P	22:BC:102:THR:N	2.41	0.85
19:B4:36:C:C6	24:BE:181:PRO:HA	1.97	0.85
22:BC:165:ILE:CG2	22:BC:168:THR:HG22	2.05	0.85
23:BD:54:LYS:HG3	23:BD:57:HIS:HB2	1.57	0.85
24:BE:211:LEU:HD23	24:BE:212:ALA:N	1.91	0.85
26:BG:163:VAL:CG1	31:BL:5:TYR:HE2	1.87	0.85
27:BH:63:LYS:HE2	32:BM:129:LYS:CD	2.06	0.85
29:BJ:70:VAL:HB	29:BJ:71:ARG:NH1	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:66:ILE:N	39:BT:83:PHE:HB3	1.90	0.85
40:BU:115:ARG:HD2	40:BU:118:LEU:HA	1.58	0.85
41:BV:20:ARG:HB3	41:BV:23:LYS:CB	2.06	0.85
42:B0:66:LEU:CD2	42:B0:70:GLY:HA2	2.06	0.85
3:AB:75:ILE:CG2	3:AB:122:VAL:HG23	2.06	0.85
8:AH:80:VAL:HG11	8:AH:124:ILE:CD1	2.06	0.85
9:AI:47:VAL:HG23	9:AI:77:VAL:HG13	1.58	0.85
18:B3:401:C:H5'	31:BL:94:GLN:O	1.73	0.85
18:B3:402:U:C1'	31:BL:92:LYS:HG3	2.06	0.85
18:B3:540:A:OP1	42:B0:18:LYS:HB2	1.75	0.85
18:B3:905:C:H5'	41:BV:11:ARG:HE	1.06	0.85
18:B3:1098:A:P	25:BF:216:PRO:CB	2.61	0.85
18:B3:1132:A:H2'	18:B3:2521:A:C4'	1.34	0.85
18:B3:2547:C:C6	22:BC:235:LYS:HE3	2.11	0.85
20:BA:68:PHE:CE2	20:BA:116:LEU:HD13	2.10	0.85
21:BB:155:LYS:HA	21:BB:155:LYS:HE2	1.58	0.85
22:BC:125:LYS:HD2	22:BC:126:LYS:N	1.91	0.85
25:BF:167:ILE:HD13	25:BF:183:LEU:CD1	2.06	0.85
26:BG:210:LEU:HD13	26:BG:211:ALA:N	1.90	0.85
28:BI:134:ILE:HD13	28:BI:134:ILE:H	1.40	0.85
32:BM:13:HIS:CD2	32:BM:18:LEU:HB2	2.12	0.85
32:BM:33:VAL:HG12	32:BM:102:LYS:HB2	1.58	0.85
1:AA:620:C:H5'	5:AD:129:ILE:CG1	2.05	0.85
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.39	0.85
2:AT:113:SER:OG	2:AT:515:ASP:OD1	1.95	0.85
9:AI:28:ILE:HD13	9:AI:48:TYR:CE2	2.10	0.85
18:B3:27:U:O2	18:B3:1319:G:C4	2.28	0.85
18:B3:449:A:H2	18:B3:1348:A:C6	1.89	0.85
18:B3:638:C:C5'	42:B0:27:ARG:HB3	2.06	0.85
18:B3:1163:G:C2	30:BK:52:GLU:OE1	2.29	0.85
18:B3:1349:G:OP1	23:BD:36:THR:C	2.14	0.85
18:B3:2065:C:C5	22:BC:255:HIS:CE1	2.64	0.85
18:B3:2712:G:O3'	37:BR:44:SER:CA	2.25	0.85
20:BA:29:LEU:HD22	20:BA:172:VAL:CG1	2.06	0.85
32:BM:95:LYS:HA	32:BM:98:LEU:HD23	1.58	0.85
39:BT:106:VAL:HB	39:BT:123:VAL:HG11	1.58	0.85
1:AA:32:A:N1	12:AL:47:SER:HB2	1.90	0.85
1:AA:364:A:P	12:AL:50:LYS:HE2	2.16	0.85
1:AA:838:G:H2'	1:AA:839:U:H5"	1.57	0.85
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.42	0.85
2:AT:140:GLU:CB	2:AT:481:MET:CB	2.49	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:533:THR:H	2:AT:537:HIS:HD2	1.22	0.85
3:AB:55:LYS:HA	3:AB:55:LYS:HE3	1.55	0.85
9:AI:47:VAL:HG11	9:AI:80:ILE:CG2	2.06	0.85
10:AJ:62:VAL:HG22	10:AJ:85:ARG:HB3	1.57	0.85
10:AJ:69:LYS:HB2	14:AN:39:ARG:NE	1.84	0.85
10:AJ:71:PRO:CD	14:AN:42:PHE:CB	2.48	0.85
10:AJ:78:THR:HG21	14:AN:39:ARG:NE	1.89	0.85
12:AL:107:PHE:O	12:AL:111:GLY:HA2	1.76	0.85
13:AM:129:TRP:CZ3	17:AS:121:ILE:HG12	2.11	0.85
18:B3:78:G:HO2'	40:BU:27:ARG:NH2	1.74	0.85
18:B3:882:A:H4'	45:BY:2:LYS:CA	2.05	0.85
18:B3:1019:C:C4'	36:BQ:61:THR:CG2	2.54	0.85
18:B3:1067:A:H4'	25:BF:94:ILE:HG22	1.58	0.85
18:B3:1673:U:O3'	39:BT:94:ILE:CD1	2.25	0.85
18:B3:1714:C:H1'	18:B3:2744:G:H21	1.40	0.85
18:B3:2837:U:H6	22:BC:333:ARG:CD	1.85	0.85
21:BB:103:LEU:HD11	21:BB:135:ILE:CD1	2.06	0.85
21:BB:161:ALA:HB3	21:BB:162:ARG:HH21	1.40	0.85
22:BC:211:ASN:HB2	22:BC:349:ALA:CB	2.03	0.85
22:BC:238:PRO:HB2	22:BC:240:LYS:CE	2.06	0.85
23:BD:215:VAL:CG1	23:BD:218:LEU:HB2	2.07	0.85
24:BE:35:ARG:HA	24:BE:35:ARG:NH1	1.91	0.85
24:BE:49:TYR:CE2	24:BE:144:VAL:HG13	2.11	0.85
28:BI:52:LEU:CD2	28:BI:134:ILE:HB	2.05	0.85
31:BL:13:LYS:HE3	31:BL:18:LEU:HG	1.58	0.85
32:BM:128:LEU:HB3	32:BM:131:GLY:HA3	1.57	0.85
35:BP:40:ILE:HA	35:BP:43:LEU:CD2	2.06	0.85
35:BP:100:VAL:CG2	35:BP:101:LEU:HD22	2.06	0.85
43:BW:9:ARG:NH2	43:BW:74:ILE:HB	1.92	0.85
43:BW:59:TRP:HA	43:BW:59:TRP:CE3	2.08	0.85
1:AA:6:G:C1'	1:AA:298:A:C2'	2.51	0.85
1:AA:250:A:H4'	1:AA:251:G:O5'	1.74	0.85
1:AA:560:U:O4'	1:AA:563:A:O5'	1.95	0.85
5:AD:99:LEU:HD12	5:AD:106:GLU:CA	2.06	0.85
18:B3:20:G:O2'	33:BN:5:ALA:C	2.14	0.85
18:B3:93:C:C5'	44:BX:42:PRO:O	2.24	0.85
18:B3:121:U:N3	45:BY:20:ARG:NH1	2.22	0.85
18:B3:539:G:N3	42:B0:50:ILE:HD13	1.90	0.85
18:B3:1085:C:H5"	25:BF:89:LYS:NZ	1.90	0.85
18:B3:1310:U:C5	23:BD:202:ARG:C	2.50	0.85
18:B3:1352:A:O4'	23:BD:102:THR:HG21	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1398:G:O4'	35:BP:25:PRO:HG3	1.75	0.85
18:B3:1806:G:N3	18:B3:2884:G:N9	2.22	0.85
18:B3:2320:U:O4	46:BZ:4:PRO:HB3	1.75	0.85
18:B3:2333:G:C2'	29:BJ:114:LYS:HG2	2.06	0.85
19:B4:85:A:C1'	25:BF:228:PHE:CE2	2.51	0.85
20:BA:57:ASN:H	20:BA:155:ILE:HG23	1.42	0.85
23:BD:149:LEU:HD23	23:BD:248:ILE:HB	1.55	0.85
23:BD:256:LYS:CG	23:BD:259:GLN:HB3	2.06	0.85
24:BE:78:ALA:HB2	24:BE:105:ILE:HB	1.57	0.85
24:BE:100:ALA:O	24:BE:104:LEU:HG	1.77	0.85
26:BG:141:LEU:HD12	26:BG:142:ILE:N	1.91	0.85
27:BH:20:ILE:HG23	27:BH:47:LYS:CE	2.05	0.85
27:BH:62:ARG:O	32:BM:129:LYS:C	2.13	0.85
30:BK:113:ALA:HB1	30:BK:128:VAL:CG2	2.06	0.85
31:BL:62:ARG:HH21	31:BL:128:TYR:HB3	1.41	0.85
38:BS:47:ARG:HB2	38:BS:54:LEU:CD2	2.06	0.85
46:BZ:75:LYS:H	46:BZ:77:LYS:HD2	1.42	0.85
1:AA:129:U:C4'	16:AQ:127:CYS:O	2.23	0.85
1:AA:979:C:O2'	17:AS:58:LYS:CE	2.24	0.85
1:AA:1291:G:H5"	7:AG:111:ARG:CZ	2.05	0.85
1:AA:1375:A:C6	7:AG:76:TYR:CZ	2.64	0.85
2:AT:749:LYS:HE2	18:B3:2508:C:C5	1.98	0.85
3:AB:141:PRO:CG	8:AH:68:LEU:CD2	2.54	0.85
4:AC:137:VAL:HG22	4:AC:183:ILE:CD1	2.06	0.85
18:B3:120:A:C8	45:BY:26:PHE:CE1	2.64	0.85
18:B3:124:C:H5	39:BT:88:LYS:CG	1.88	0.85
18:B3:263:U:O2	31:BL:40:ARG:HD2	1.76	0.85
18:B3:517:U:C2'	18:B3:1319:G:N2	2.39	0.85
18:B3:677:C:C1'	23:BD:230:ALA:HA	2.02	0.85
18:B3:1343:C:P	23:BD:192:LYS:HB2	2.17	0.85
18:B3:1805:G:N2	18:B3:2875:A:H61	1.42	0.85
18:B3:2717:C:H2'	18:B3:2718:C:H5"	1.57	0.85
19:B4:7:G:N7	24:BE:22:ARG:HD3	1.91	0.85
19:B4:50:G:N1	24:BE:57:ASN:OD1	2.07	0.85
22:BC:87:GLY:HA2	22:BC:104:VAL:CG2	2.07	0.85
27:BH:27:VAL:HG12	27:BH:28:VAL:H	1.39	0.85
27:BH:40:HIS:CE1	32:BM:127:ARG:HH11	1.93	0.85
27:BH:117:PHE:CD2	27:BH:120:ASP:HB2	2.11	0.85
29:BJ:20:ILE:HG13	29:BJ:21:SER:H	1.42	0.85
35:BP:22:TRP:NE1	35:BP:49:ILE:HA	1.90	0.85
47:B9:28:LEU:HD13	47:B9:29:GLU:H	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:35:ARG:HD3	47:B9:44:LYS:CG	2.06	0.85
1:AA:66:G:C4'	1:AA:173:U:C1'	2.44	0.85
1:AA:1309:G:H4'	13:AM:112:ASP:HB3	1.58	0.85
1:AA:1418:A:C2	18:B3:1989:G:N2	2.44	0.85
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.11	0.85
4:AC:171:THR:HG22	4:AC:184:LYS:CD	2.07	0.85
18:B3:77:G:N2	40:BU:25:SER:HB2	1.91	0.85
18:B3:195:C:H5'	31:BL:178:LYS:HB3	0.87	0.85
18:B3:541:C:C6	42:B0:15:LYS:HB2	2.12	0.85
18:B3:677:C:O2	23:BD:230:ALA:HB1	1.77	0.85
18:B3:745:G:N2	41:BV:76:LYS:NZ	2.24	0.85
18:B3:1117:A:N3	18:B3:1226:G:O3'	1.99	0.85
18:B3:1309:U:OP1	23:BD:223:GLY:O	1.94	0.85
18:B3:1348:A:H5"	23:BD:241:ALA:HB2	1.51	0.85
18:B3:2388:C:OP1	36:BQ:88:ARG:NE	2.05	0.85
20:BA:53:LEU:CD1	20:BA:186:SER:HA	2.07	0.85
21:BB:112:VAL:HG13	21:BB:164:VAL:O	1.77	0.85
22:BC:84:VAL:HG12	22:BC:201:THR:CG2	2.07	0.85
23:BD:245:ARG:HD3	23:BD:246:PHE:N	1.91	0.85
27:BH:10:ILE:HD12	27:BH:52:LEU:CD2	2.07	0.85
27:BH:151:VAL:HA	27:BH:154:VAL:HG22	1.58	0.85
29:BJ:136:ARG:NH1	29:BJ:137:VAL:HG22	1.91	0.85
31:BL:173:ILE:HD13	31:BL:188:LYS:CD	2.06	0.85
34:BO:62:VAL:HG21	34:BO:87:VAL:CG2	2.05	0.85
37:BR:109:MET:SD	37:BR:129:VAL:HA	2.16	0.85
41:BV:97:THR:HG21	41:BV:124:VAL:CG2	2.07	0.85
1:AA:21:G:C1'	1:AA:885:G:C5'	2.53	0.85
1:AA:59:A:C4'	1:AA:388:G:C8	2.59	0.85
1:AA:129(A):G:C2'	16:AQ:125:GLY:O	2.24	0.85
1:AA:254:G:H4'	16:AQ:79:MET:HE2	1.50	0.85
1:AA:1151:A:C6	10:AJ:57:ARG:NH2	2.44	0.85
1:AA:1226:C:N1	17:AS:124:THR:O	2.10	0.85
2:AT:137:VAL:C	2:AT:481:MET:SD	2.55	0.85
6:AE:140:ARG:O	6:AE:148:GLY:HA3	1.77	0.85
9:AI:33:SER:CB	9:AI:37:LEU:HD23	2.07	0.85
10:AJ:69:LYS:HB3	14:AN:39:ARG:CZ	2.01	0.85
18:B3:206:G:H5'	31:BL:186:ARG:HE	1.42	0.85
18:B3:671:A:H5"	23:BD:212:ASN:CA	2.04	0.85
18:B3:1350:U:C4	23:BD:46:ARG:NH2	2.32	0.85
18:B3:1360:C:OP2	23:BD:90:GLY:C	2.11	0.85
18:B3:1382:G:O2'	43:BW:26:LYS:HD2	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1653:A:C8	21:BB:186:HIS:CD2	2.64	0.85
18:B3:1705:C:C5'	35:BP:62:THR:CG2	2.55	0.85
18:B3:2072:G:N2	18:B3:2531:U:O2	2.09	0.85
18:B3:2087:C:H4'	33:BN:78:THR:HG21	1.08	0.85
18:B3:2165:G:C1'	20:BA:207:LYS:CE	2.54	0.85
18:B3:2347:C:C2	29:BJ:19:ASN:CB	2.56	0.85
18:B3:2565:C:N4	27:BH:171:ASP:HB2	1.91	0.85
20:BA:16:LEU:CD1	20:BA:207:LYS:HA	2.06	0.85
21:BB:116:GLU:HA	21:BB:123:GLY:HA2	1.58	0.85
22:BC:101:LEU:HD13	22:BC:145:ARG:NH1	1.91	0.85
26:BG:203:ARG:HD3	26:BG:210:LEU:CD1	2.04	0.85
27:BH:76:ASP:H	27:BH:78:MET:HE3	1.41	0.85
27:BH:170:LYS:HE2	27:BH:175:PHE:CD1	2.12	0.85
31:BL:114:VAL:HG23	31:BL:132:ILE:O	1.75	0.85
41:BV:120:VAL:CG1	41:BV:122:VAL:HG13	2.07	0.85
43:BW:13:ILE:HD11	43:BW:68:TYR:HA	1.55	0.85
1:AA:293:G:O2'	1:AA:609:A:H2	1.59	0.85
1:AA:1224:G:C4'	13:AM:139:LYS:HB2	2.07	0.85
1:AA:1303:C:N4	13:AM:40:ARG:HE	1.73	0.85
5:AD:42:ILE:CG2	5:AD:48:GLN:HB2	2.06	0.85
18:B3:269:G:H5"	18:B3:274:G:C1'	2.06	0.85
18:B3:401:C:C4'	31:BL:94:GLN:HA	2.07	0.85
18:B3:1244:U:OP1	32:BM:14:LEU:HD13	1.72	0.85
18:B3:1673:U:C5'	39:BT:109:VAL:HG13	2.07	0.85
18:B3:2349:G:C4'	29:BJ:15:LYS:HZ3	1.89	0.85
18:B3:2489:G:C3'	18:B3:2490:A:N7	2.39	0.85
18:B3:2671:U:P	22:BC:178:ALA:HB2	2.17	0.85
19:B4:97:U:C2	25:BF:220:LYS:HD2	1.95	0.85
21:BB:61:VAL:HB	21:BB:71:ARG:HH22	1.42	0.85
21:BB:83:THR:OG1	47:B9:62:THR:HG23	1.75	0.85
22:BC:49:LYS:HE3	22:BC:332:LYS:HA	1.58	0.85
22:BC:71:VAL:HG13	37:BR:87:ARG:NH1	1.84	0.85
22:BC:173:LYS:N	22:BC:173:LYS:HE3	1.92	0.85
24:BE:55:PHE:CE2	24:BE:158:ARG:HB2	2.11	0.85
24:BE:65:ILE:HG13	24:BE:75:LEU:CD2	2.05	0.85
24:BE:83:LEU:HG	24:BE:104:LEU:CD1	2.07	0.85
28:BI:49:CYS:HA	28:BI:139:ARG:HG3	1.59	0.85
35:BP:10:ALA:HA	35:BP:41:ARG:NH2	1.92	0.85
1:AA:190(E):U:P	16:AQ:109:HIS:HB3	2.17	0.85
1:AA:580:U:H4'	15:AO:115:ILE:HG21	0.87	0.85
1:AA:987:G:N3	1:AA:1014:A:H1'	1.90	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1305:G:HO2'	1:AA:1306:A:H8	0.86	0.85
1:AA:1343:G:H5'	9:AI:138:GLN:HA	1.10	0.85
10:AJ:71:PRO:N	14:AN:38:CYS:O	1.88	0.85
18:B3:1127:C:HO2'	18:B3:2492:U:H5'	1.38	0.85
18:B3:2053:G:C5'	33:BN:140:SER:CA	2.54	0.85
18:B3:2310:G:C2'	28:BI:119:TRP:HZ2	1.89	0.85
18:B3:2345:A:H5'	29:BJ:48:LYS:CD	2.05	0.85
18:B3:2347:C:H5'	29:BJ:66:VAL:O	1.76	0.85
18:B3:2580:G:H5"	18:B3:2680:A:N6	1.92	0.85
19:B4:118:C:C2'	24:BE:71:GLY:HA3	2.04	0.85
21:BB:176:LYS:HB2	47:B9:24:GLN:O	1.76	0.85
23:BD:9:SER:H	23:BD:15:THR:HG21	1.40	0.85
28:BI:101:LYS:HD2	28:BI:103:LEU:CD2	2.07	0.85
32:BM:72:PHE:HB2	32:BM:78:ILE:HD12	1.58	0.85
37:BR:54:LEU:HD21	37:BR:81:GLN:CB	2.06	0.85
40:BU:111:LEU:HB3	40:BU:116:LYS:HG3	1.57	0.85
42:B0:22:SER:HA	42:B0:28:VAL:HG21	1.59	0.85
1:AA:18:C:O2	1:AA:572:A:H2	1.20	0.84
1:AA:111:G:C2'	1:AA:389:A:O2'	2.25	0.84
1:AA:764:C:H4'	15:AO:108:LYS:HG3	1.59	0.84
3:AB:145:LEU:HD22	3:AB:172:ILE:HD13	1.59	0.84
8:AH:81:LYS:CD	8:AH:123:LYS:HD2	2.06	0.84
9:AI:51:LEU:HD22	9:AI:58:LYS:HD3	1.57	0.84
13:AM:42:TYR:HB3	13:AM:84:TRP:CH2	2.12	0.84
18:B3:52:A:C5'	45:BY:20:ARG:NH1	2.07	0.84
18:B3:449:A:C4'	23:BD:194:ARG:HH21	1.90	0.84
18:B3:1676:G:C4'	39:BT:115:PRO:HG3	2.07	0.84
18:B3:1789:G:H5"	18:B3:2880:A:N7	1.91	0.84
18:B3:1875:A:C2'	21:BB:150:PRO:HG2	2.02	0.84
18:B3:2214:A:N3	20:BA:106:LYS:CB	2.37	0.84
18:B3:2396:C:O2'	41:BV:46:LYS:CE	2.23	0.84
22:BC:92:VAL:HG23	22:BC:101:LEU:CD1	2.08	0.84
22:BC:236:LYS:HE2	22:BC:237:LEU:CD2	2.06	0.84
22:BC:260:MET:CE	32:BM:66:THR:CG2	2.54	0.84
22:BC:359:ASP:HB2	38:BS:16:GLY:CA	2.06	0.84
24:BE:62:CYS:SG	24:BE:105:ILE:HG21	2.17	0.84
24:BE:65:ILE:CG1	24:BE:75:LEU:HD22	2.07	0.84
26:BG:110:LYS:O	26:BG:117:GLU:HB3	1.77	0.84
26:BG:157:ASP:HB3	26:BG:158:PRO:HD2	1.58	0.84
42:B0:19:ARG:HB2	42:B0:32:TRP:HA	1.59	0.84
45:BY:44:ARG:HB3	45:BY:44:ARG:CZ	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:36:TYR:H	47:B9:46:VAL:HG12	1.40	0.84
1:AA:615:C:P	5:AD:107:ARG:NH1	2.50	0.84
1:AA:712:A:N1	11:AK:124:SER:HA	1.93	0.84
1:AA:1299:A:H4'	13:AM:26:ILE:HG12	1.60	0.84
1:AA:1320:C:H1'	17:AS:119:PHE:CE1	2.12	0.84
10:AJ:49:ASN:OD1	10:AJ:93:LEU:HD21	1.77	0.84
10:AJ:73:GLY:HA2	14:AN:25:SER:CB	2.06	0.84
10:AJ:74:GLU:O	14:AN:38:CYS:HB2	1.76	0.84
18:B3:69:A:C5'	44:BX:52:ALA:CB	2.55	0.84
18:B3:156:C:C4'	31:BL:163:LEU:O	2.23	0.84
18:B3:541:C:C5	42:B0:15:LYS:HG2	2.11	0.84
18:B3:1163:G:C8	30:BK:51:LYS:HD2	2.12	0.84
18:B3:1359:U:O4	23:BD:70:VAL:CG2	2.21	0.84
18:B3:1676:G:O3'	39:BT:115:PRO:HD2	1.68	0.84
18:B3:1814:G:H2'	18:B3:2733:U:C4	2.11	0.84
18:B3:2459:G:P	46:BZ:86:ARG:NE	2.50	0.84
18:B3:2634:G:C6	21:BB:214:ASN:ND2	2.41	0.84
18:B3:2737:C:N1	35:BP:60:SER:CB	2.40	0.84
23:BD:256:LYS:HD2	23:BD:256:LYS:H	1.41	0.84
28:BI:34:TYR:HB2	28:BI:89:VAL:HG22	1.58	0.84
37:BR:92:PHE:CE1	38:BS:20:LEU:CD1	2.60	0.84
44:BX:41:LEU:HD11	44:BX:43:LYS:HE3	1.57	0.84
1:AA:232:G:N2	1:AA:264:U:O2	2.09	0.84
1:AA:404:U:C6	5:AD:19:TYR:CE2	2.65	0.84
1:AA:518:C:C2	12:AL:65:ASN:HA	2.11	0.84
1:AA:1075:C:H5'	3:AB:102:THR:CB	2.07	0.84
1:AA:1239:A:N7	13:AM:55:HIS:HE1	1.75	0.84
3:AB:173:TRP:O	3:AB:176:LEU:HG	1.77	0.84
7:AG:138:ASN:ND2	7:AG:202:LYS:HB2	1.92	0.84
9:AI:45:PHE:HD1	9:AI:77:VAL:HG22	1.40	0.84
9:AI:100:SER:CA	9:AI:105:LYS:HA	2.08	0.84
18:B3:52:A:H5'	45:BY:20:ARG:HH11	1.39	0.84
18:B3:107:U:H1'	44:BX:56:THR:HB	0.86	0.84
18:B3:401:C:H4'	31:BL:94:GLN:CA	2.07	0.84
18:B3:402:U:OP1	31:BL:97:LEU:CD2	2.25	0.84
18:B3:721:A:H5"	34:BO:71:LEU:H	1.41	0.84
18:B3:749:C:O2'	23:BD:113:ASN:OD1	1.95	0.84
18:B3:1133:A:C6	18:B3:2500:C:O2	2.31	0.84
18:B3:1184:A:H5'	30:BK:85:LEU:O	1.78	0.84
18:B3:1351:G:H8	23:BD:108:TRP:CZ3	1.94	0.84
18:B3:1566:C:O3'	35:BP:56:VAL:HG13	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1855:G:C5	21:BB:149:LEU:HB3	2.13	0.84
18:B3:1869:A:H2'	21:BB:192:ARG:NH1	1.93	0.84
18:B3:1900:A:C5'	21:BB:238:ALA:HB1	2.06	0.84
18:B3:2338:G:C5'	29:BJ:125:ASP:HA	1.91	0.84
18:B3:2806:C:C3'	22:BC:343:THR:OG1	2.23	0.84
19:B4:51:A:N9	24:BE:58:LYS:HB2	1.30	0.84
24:BE:16:PHE:C	36:BQ:19:PHE:HE2	1.81	0.84
24:BE:75:LEU:HD21	24:BE:109:THR:CG2	2.06	0.84
24:BE:120:LYS:HD2	24:BE:121:GLY:N	1.91	0.84
25:BF:131:PRO:HA	25:BF:228:PHE:CE2	2.12	0.84
34:BO:74:GLU:OE1	34:BO:138:LEU:HD23	1.78	0.84
34:BO:87:VAL:HG13	34:BO:106:PHE:CB	2.06	0.84
36:BQ:67:VAL:HG23	36:BQ:71:SER:O	1.76	0.84
37:BR:32:ARG:HB2	37:BR:64:LYS:CB	2.01	0.84
37:BR:32:ARG:NH2	37:BR:34:LEU:HD12	1.92	0.84
40:BU:30:LEU:HD13	40:BU:78:PHE:CD1	2.12	0.84
41:BV:95:LYS:HE2	41:BV:95:LYS:HA	1.58	0.84
42:B0:32:TRP:HH2	42:B0:34:LYS:HD2	1.41	0.84
1:AA:62:U:O2'	1:AA:385:C:C2	2.29	0.84
1:AA:1086:U:C5'	1:AA:1389:C:H4'	2.07	0.84
1:AA:1225:A:H2	17:AS:126:VAL:O	1.60	0.84
1:AA:1305:G:C2	13:AM:40:ARG:NH1	2.45	0.84
3:AB:24:GLY:HA3	3:AB:46:VAL:HA	1.59	0.84
4:AC:11:VAL:CG2	14:AN:33:TYR:O	2.25	0.84
10:AJ:80:GLU:OE1	14:AN:43:ARG:HD3	1.78	0.84
18:B3:93:C:C5'	44:BX:42:PRO:CB	2.53	0.84
18:B3:618:G:C6	42:B0:48:GLY:HA3	2.12	0.84
18:B3:671:A:C5'	23:BD:212:ASN:CA	2.55	0.84
18:B3:1225:C:O3'	18:B3:1246:A:N6	2.09	0.84
18:B3:1228:C:H5"	32:BM:47:PHE:CD1	2.13	0.84
18:B3:1794:G:C3'	35:BP:96:ARG:CG	2.50	0.84
18:B3:2283:G:C6	28:BI:105:CYS:C	2.51	0.84
18:B3:2312:G:H5'	28:BI:22:TYR:HD1	1.41	0.84
18:B3:2737:C:C5	35:BP:61:ARG:HA	2.12	0.84
19:B4:35:C:O2'	24:BE:183:TRP:O	1.93	0.84
19:B4:69:U:C1'	24:BE:14:SER:CB	2.54	0.84
19:B4:85:A:H4'	25:BF:228:PHE:HZ	1.42	0.84
21:BB:142:GLU:HG3	21:BB:144:LYS:HE3	1.58	0.84
22:BC:105:TRP:CE3	22:BC:138:GLN:HA	2.12	0.84
24:BE:17:GLN:OE1	36:BQ:19:PHE:CD2	2.31	0.84
24:BE:111:GLN:H	24:BE:115:LEU:HB2	1.43	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:102:LEU:CA	25:BF:105:LEU:HD23	2.08	0.84
25:BF:209:PRO:HG2	25:BF:242:MET:HG3	1.58	0.84
27:BH:9:GLN:HA	27:BH:54:LYS:HB3	1.57	0.84
29:BJ:18:LEU:CG	29:BJ:68:VAL:HG21	2.06	0.84
31:BL:34:VAL:HA	31:BL:64:ARG:CD	2.06	0.84
31:BL:107:ARG:CZ	31:BL:107:ARG:HA	2.07	0.84
36:BQ:57:TYR:CE2	36:BQ:76:ILE:HD13	2.12	0.84
1:AA:675:A:N6	11:AK:122:SER:O	2.10	0.84
1:AA:877:C:C2	8:AH:3:SER:OG	2.31	0.84
2:AT:141:THR:CG2	2:AT:483:PHE:CB	2.48	0.84
2:AT:501:LEU:HD11	12:AL:99:ASN:ND2	1.77	0.84
17:AS:85:ILE:HG21	17:AS:116:LEU:HD21	1.58	0.84
18:B3:449:A:OP1	23:BD:45:LYS:O	1.94	0.84
18:B3:1139:U:H4'	27:BH:62:ARG:CB	2.07	0.84
18:B3:1267:C:H4'	42:B0:61:LYS:HZ2	1.42	0.84
18:B3:1688:G:N1	33:BN:129:TYR:OH	2.10	0.84
18:B3:1811:A:C2	18:B3:2752:C:C2	2.65	0.84
18:B3:2363:G:H22	36:BQ:8:ARG:HD3	1.35	0.84
18:B3:2718:C:OP2	22:BC:331:ARG:CZ	2.26	0.84
20:BA:32:VAL:HG11	20:BA:179:LEU:CD2	2.08	0.84
21:BB:177:PRO:HG3	47:B9:25:VAL:HG23	1.57	0.84
21:BB:177:PRO:HB2	47:B9:20:SER:O	1.76	0.84
22:BC:92:VAL:CB	22:BC:101:LEU:HD21	2.08	0.84
25:BF:180:ILE:HD13	25:BF:181:ASP:OD1	1.78	0.84
25:BF:181:ASP:HA	25:BF:184:ILE:CD1	2.07	0.84
28:BI:59:GLN:HG2	28:BI:126:ALA:HB3	1.59	0.84
29:BJ:83:LEU:HD13	29:BJ:84:LYS:N	1.92	0.84
31:BL:186:ARG:HH11	31:BL:191:LYS:HG2	1.42	0.84
34:BO:104:LEU:HD23	34:BO:105:ARG:H	1.42	0.84
35:BP:8:ARG:HA	35:BP:8:ARG:CZ	2.07	0.84
40:BU:31:LEU:HD11	40:BU:79:ALA:N	1.93	0.84
42:B0:96:ILE:HG13	42:B0:100:ILE:HG21	1.60	0.84
1:AA:356:A:OP1	1:AA:366:C:C4	2.30	0.84
1:AA:755:G:OP2	15:AO:123:ARG:CD	2.22	0.84
1:AA:1064:G:H4'	1:AA:1065:U:H5'	1.58	0.84
1:AA:1178:G:C6	9:AI:111:TYR:CE1	2.66	0.84
1:AA:1299:A:N6	13:AM:55:HIS:HE1	1.37	0.84
1:AA:1315:U:O4	17:AS:49:MET:CB	2.25	0.84
1:AA:1404:C:O2'	1:AA:1520:G:P	2.34	0.84
2:AT:501:LEU:CD1	12:AL:99:ASN:CB	2.26	0.84
3:AB:146:THR:CG2	3:AB:150:SER:HB2	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:100:SER:C	9:AI:105:LYS:HA	1.98	0.84
9:AI:100:SER:N	9:AI:116:LEU:HB2	1.92	0.84
18:B3:124:C:C6	39:BT:88:LYS:CD	2.51	0.84
18:B3:506:G:H22	18:B3:509:A:H5'	1.43	0.84
18:B3:539:G:C5	42:B0:50:ILE:HD11	2.13	0.84
18:B3:677:C:O5'	23:BD:232:LEU:O	1.95	0.84
18:B3:697:G:C2'	41:BV:112:LEU:HD11	2.07	0.84
18:B3:1118:A:C5'	18:B3:1227:C:C5	2.53	0.84
18:B3:1168:C:C6	30:BK:114:ARG:NH1	2.04	0.84
18:B3:1315:G:O3'	42:B0:104:ASN:O	1.96	0.84
18:B3:1671:U:C4'	39:BT:92:TYR:HE1	1.86	0.84
18:B3:1806:G:C4'	18:B3:2874:G:C1'	2.37	0.84
21:BB:195:TRP:CH2	21:BB:197:LYS:HD2	2.12	0.84
22:BC:241:THR:HG21	22:BC:247:LYS:HD2	1.60	0.84
23:BD:27:ALA:HB3	23:BD:126:ALA:HB1	1.57	0.84
23:BD:103:LYS:HE2	23:BD:106:ARG:CB	2.06	0.84
24:BE:106:ALA:CA	24:BE:110:LEU:HD13	2.07	0.84
25:BF:180:ILE:N	25:BF:183:LEU:HG	1.91	0.84
26:BG:105:LYS:HG3	26:BG:107:ARG:NH2	1.92	0.84
26:BG:151:LEU:HD21	26:BG:185:LEU:CG	2.06	0.84
29:BJ:162:PHE:HD1	29:BJ:166:TYR:HE2	1.21	0.84
37:BR:18:PRO:HB3	37:BR:49:LEU:HD11	1.57	0.84
41:BV:27:HIS:HB3	41:BV:28:PRO:HA	1.59	0.84
47:B9:54:TRP:NE1	47:B9:70:VAL:HG23	1.93	0.84
1:AA:778:G:C4	11:AK:132:ARG:CG	2.46	0.84
1:AA:990:C:H5	1:AA:1016:A:C2	1.95	0.84
1:AA:1220:G:H3'	17:AS:78:THR:C	1.92	0.84
2:AT:186:ASN:HB3	2:AT:201:GLN:HE21	1.41	0.84
9:AI:114:THR:HG22	9:AI:117:ILE:HG22	1.57	0.84
18:B3:289:G:N2	18:B3:363:A:H2	1.74	0.84
18:B3:672:G:OP1	23:BD:214:ILE:CD1	2.25	0.84
18:B3:698:A:H5'	41:BV:113:GLY:O	1.78	0.84
18:B3:1183:C:O3'	30:BK:85:LEU:HD11	1.78	0.84
18:B3:1652:C:H6	21:BB:173:ARG:HH11	1.20	0.84
18:B3:1672:G:H5"	39:BT:91:LYS:CG	2.07	0.84
18:B3:1815:A:N3	18:B3:2746:A:C5	2.17	0.84
18:B3:2168:G:C6	18:B3:2169:C:N4	2.45	0.84
18:B3:2709:G:OP1	37:BR:10:LYS:CA	2.24	0.84
21:BB:53:ARG:HD2	21:BB:55:ALA:N	1.92	0.84
22:BC:228:VAL:CG2	22:BC:234:THR:HG21	2.06	0.84
22:BC:334:ILE:HG12	22:BC:335:VAL:H	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:365:GLY:CA	38:BS:35:LYS:CG	2.40	0.84
23:BD:19:LEU:HB2	23:BD:20:PRO:HA	1.57	0.84
27:BH:17:THR:HG22	27:BH:18:VAL:H	1.43	0.84
27:BH:43:VAL:HG13	32:BM:126:LEU:C	1.90	0.84
29:BJ:87:GLU:HG3	29:BJ:122:PHE:CZ	2.12	0.84
30:BK:91:ASP:CG	30:BK:101:SER:HB2	1.98	0.84
32:BM:7:VAL:HG13	32:BM:33:VAL:HG23	1.60	0.84
35:BP:109:ARG:HB2	35:BP:114:ILE:CG2	2.08	0.84
37:BR:54:LEU:HA	37:BR:78:VAL:HG13	1.57	0.84
44:BX:8:GLU:O	44:BX:11:THR:HG22	1.77	0.84
45:BY:17:LEU:CA	45:BY:24:ARG:HA	2.08	0.84
1:AA:12:U:O4'	1:AA:525:C:O2'	1.95	0.84
1:AA:132:C:N1	1:AA:263:A:N3	2.13	0.84
1:AA:1081:G:OP1	6:AE:88:GLN:CD	2.16	0.84
5:AD:91:LYS:O	6:AE:174:GLY:HA3	1.76	0.84
9:AI:47:VAL:HG22	9:AI:77:VAL:O	1.78	0.84
11:AK:116:ASP:OD1	11:AK:118:THR:HG23	1.78	0.84
18:B3:164:G:O3'	41:BV:31:ARG:HB2	1.78	0.84
18:B3:538:C:H2'	42:B0:21:HIS:HA	1.60	0.84
18:B3:629:A:H5'	42:B0:39:ASP:C	1.97	0.84
18:B3:745:G:N2	41:BV:76:LYS:HZ1	1.75	0.84
18:B3:777:U:H1'	45:BY:12:ASN:ND2	1.93	0.84
18:B3:1019:C:H5"	36:BQ:78:LYS:HE2	1.60	0.84
18:B3:1260:G:O6	42:B0:45:ARG:NH1	2.10	0.84
18:B3:1285:U:O3'	25:BF:155:ILE:CB	2.25	0.84
18:B3:1348:A:H2'	23:BD:39:THR:HA	0.84	0.84
18:B3:1671:U:H4'	39:BT:92:TYR:HE1	1.41	0.84
18:B3:1761:U:O2'	35:BP:80:ARG:NH2	2.11	0.84
18:B3:1788:U:O2'	18:B3:2881:C:N3	2.09	0.84
18:B3:1805:G:N1	18:B3:2883:A:C4	2.45	0.84
18:B3:1875:A:N3	21:BB:151:SER:HB2	1.92	0.84
18:B3:2404:G:H8	36:BQ:69:LYS:CD	1.85	0.84
21:BB:81:VAL:HG22	47:B9:64:ALA:HB2	1.59	0.84
24:BE:220:SER:HA	24:BE:223:PHE:CE2	2.13	0.84
28:BI:89:VAL:HA	28:BI:136:PHE:CB	2.08	0.84
31:BL:82:LYS:NZ	46:BZ:49:PHE:CA	2.41	0.84
31:BL:141:ILE:HA	31:BL:147:TYR:CE2	2.13	0.84
32:BM:123:LEU:HD13	32:BM:123:LEU:H	1.42	0.84
1:AA:125:U:C4'	1:AA:291:C:H4'	2.07	0.84
1:AA:1291:G:OP1	7:AG:111:ARG:NH1	2.11	0.84
1:AA:1302:U:C4'	13:AM:54:LEU:CD2	2.39	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:132:ILE:HD12	2:AT:162:ARG:HD3	1.57	0.84
2:AT:145:GLN:H	2:AT:483:PHE:HE2	1.25	0.84
5:AD:26:ALA:HB1	5:AD:70:LEU:HD21	1.60	0.84
5:AD:74:ASN:HD21	5:AD:79:ARG:HB2	1.41	0.84
5:AD:156:ILE:HD13	5:AD:157:ASP:N	1.93	0.84
7:AG:173:LEU:HD12	7:AG:174:LEU:HD22	1.58	0.84
8:AH:26:ILE:HB	8:AH:62:VAL:CG2	2.08	0.84
13:AM:86:LEU:HD23	13:AM:98:TYR:HB2	1.57	0.84
16:AQ:74:VAL:HG21	16:AQ:116:VAL:HG21	1.58	0.84
16:AQ:90:LEU:HD13	16:AQ:101:LYS:HB3	1.60	0.84
18:B3:120:A:H1'	45:BY:17:LEU:O	1.78	0.84
18:B3:448:G:N2	23:BD:47:GLN:CB	2.40	0.84
18:B3:449:A:C4'	23:BD:194:ARG:NH2	2.39	0.84
18:B3:697:G:P	41:BV:130:SER:HG	2.00	0.84
18:B3:1010:C:C4'	24:BE:15:ARG:CG	2.49	0.84
18:B3:1310:U:C4	23:BD:181:LEU:HD12	2.13	0.84
18:B3:2060:A:O3'	42:B0:24:ARG:NE	1.87	0.84
18:B3:2565:C:C4	27:BH:171:ASP:OD2	2.31	0.84
18:B3:2663:U:C2	18:B3:2816:A:C4	2.66	0.84
18:B3:2678:A:N3	22:BC:14:GLY:HA2	1.93	0.84
23:BD:160:LYS:CD	23:BD:163:GLU:HG2	2.08	0.84
25:BF:221:HIS:HA	25:BF:228:PHE:CB	2.08	0.84
26:BG:129:TYR:H	26:BG:204:ALA:HB3	1.41	0.84
28:BI:35:ASP:HA	28:BI:88:ARG:NH2	1.93	0.84
29:BJ:53:VAL:HG23	29:BJ:57:GLY:O	1.78	0.84
31:BL:109:ALA:HB3	31:BL:112:LEU:HD21	1.59	0.84
32:BM:72:PHE:HB3	32:BM:77:ARG:HB2	1.60	0.84
33:BN:37:GLY:H	33:BN:113:VAL:HG13	1.42	0.84
34:BO:68:ALA:HB2	34:BO:92:ARG:CZ	2.06	0.84
40:BU:22:ALA:HB1	40:BU:23:PRO:HD3	1.60	0.84
41:BV:74:LEU:HD21	41:BV:117:ILE:HG21	1.60	0.84
1:AA:64:G:H1'	1:AA:97:G:O6	1.78	0.84
1:AA:618:C:OP2	5:AD:141:VAL:CG2	2.26	0.84
1:AA:621:A:P	5:AD:143:ILE:HG12	2.18	0.84
1:AA:1101:A:N6	3:AB:102:THR:HG22	1.93	0.84
1:AA:1239:A:C5	13:AM:55:HIS:CE1	2.51	0.84
1:AA:1318:A:N9	17:AS:54:ALA:HB1	1.93	0.84
3:AB:171:LEU:HA	3:AB:174:TYR:CE2	2.12	0.84
10:AJ:93:LEU:CD2	10:AJ:99:ILE:HD13	2.07	0.84
11:AK:26:PHE:CZ	11:AK:28:HIS:HB3	2.13	0.84
18:B3:618:G:C8	42:B0:46:PHE:O	2.31	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:656:G:H4'	23:BD:30:ARG:HD2	1.60	0.84
18:B3:1103:C:O2'	32:BM:86:MET:HB3	1.77	0.84
18:B3:2403:C:O2'	36:BQ:69:LYS:HB2	1.76	0.84
19:B4:11:A:C5	24:BE:14:SER:C	2.47	0.84
20:BA:155:ILE:HG21	20:BA:167:VAL:HG13	1.59	0.84
22:BC:112:GLU:HA	22:BC:114:LYS:HZ2	1.41	0.84
22:BC:121:TRP:CE2	22:BC:123:LYS:HG2	2.12	0.84
26:BG:107:ARG:CG	26:BG:108:LEU:HD22	2.08	0.84
31:BL:119:TRP:HB2	31:BL:120:VAL:O	1.78	0.84
32:BM:84:ARG:NE	32:BM:98:LEU:HD13	1.93	0.84
33:BN:101:ALA:HB1	33:BN:106:LEU:HD21	1.60	0.84
1:AA:65:U:O2'	1:AA:383:A:N1	2.10	0.83
1:AA:1343:G:H5'	9:AI:137:PHE:O	1.78	0.83
2:AT:141:THR:HA	2:AT:481:MET:O	1.78	0.83
4:AC:105:LYS:CD	4:AC:174:VAL:HG23	2.08	0.83
7:AG:139:THR:HB	7:AG:173:LEU:HD11	1.59	0.83
8:AH:27:ARG:HE	8:AH:27:ARG:HA	1.40	0.83
13:AM:122:HIS:O	13:AM:125:ILE:HG22	1.78	0.83
18:B3:81:G:C2'	40:BU:75:ARG:HG3	2.08	0.83
18:B3:1167:G:C4'	30:BK:111:GLU:HA	2.08	0.83
18:B3:1383:U:O2'	43:BW:32:VAL:HG11	1.78	0.83
18:B3:1690:C:C6	33:BN:129:TYR:CD1	2.63	0.83
18:B3:1812:G:O4'	18:B3:2732:U:O2'	1.95	0.83
18:B3:1869:A:C2'	21:BB:192:ARG:CZ	2.49	0.83
18:B3:2335:C:H6	29:BJ:116:ASP:OD2	1.56	0.83
18:B3:2546:U:H2'	22:BC:235:LYS:HE3	1.60	0.83
18:B3:2558:G:N2	18:B3:2799:A:C2	2.45	0.83
18:B3:2819:C:H5'	22:BC:99:ARG:CZ	2.05	0.83
18:B3:2853:U:H5"	22:BC:170:LEU:HD23	1.60	0.83
22:BC:48:TYR:HA	22:BC:78:VAL:CG1	2.08	0.83
22:BC:280:LYS:HB2	22:BC:324:LYS:CD	2.08	0.83
26:BG:206:ASP:OD2	26:BG:209:ALA:HB3	1.78	0.83
27:BH:90:MET:HB2	27:BH:181:VAL:HA	1.58	0.83
28:BI:55:ASN:HD21	28:BI:164:LYS:HB2	1.42	0.83
30:BK:56:ILE:HD13	30:BK:57:LYS:N	1.93	0.83
33:BN:90:VAL:CA	33:BN:93:LEU:HD23	2.07	0.83
34:BO:115:VAL:O	34:BO:116:LYS:HD3	1.78	0.83
37:BR:78:VAL:HG23	37:BR:99:ALA:O	1.78	0.83
41:BV:80:LEU:HD23	41:BV:86:ARG:HD2	1.58	0.83
44:BX:25:LYS:O	44:BX:28:LEU:HB3	1.78	0.83
46:BZ:21:GLN:HG2	46:BZ:74:VAL:CG1	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:994:A:N7	1:AA:1046:A:N3	2.25	0.83
1:AA:1299:A:C4'	13:AM:57:ARG:NH1	2.27	0.83
1:AA:1309:G:N1	13:AM:95:GLY:HA3	1.93	0.83
2:AT:737:GLU:O	18:B3:1199:A:N1	2.12	0.83
6:AE:100:VAL:CG1	6:AE:112:LEU:HD21	2.09	0.83
9:AI:97:ASP:N	9:AI:104:LEU:HB2	1.91	0.83
13:AM:18:LEU:HD13	13:AM:74:GLN:OE1	1.78	0.83
18:B3:617:C:O2'	42:B0:45:ARG:O	1.95	0.83
18:B3:629:A:H5"	42:B0:38:ILE:HG23	1.60	0.83
18:B3:678:G:C8	23:BD:259:GLN:CG	2.60	0.83
18:B3:2779:G:H1'	27:BH:163:GLN:CB	2.09	0.83
22:BC:357:TRP:C	38:BS:15:PRO:HB2	1.98	0.83
29:BJ:31:ARG:HB3	29:BJ:34:LYS:HE2	1.59	0.83
32:BM:53:TYR:N	32:BM:58:ARG:HG3	1.93	0.83
34:BO:112:ALA:HA	34:BO:115:VAL:HG21	1.60	0.83
42:B0:19:ARG:CG	42:B0:33:ARG:HG2	2.08	0.83
42:B0:87:MET:HG3	42:B0:118:LYS:H	1.41	0.83
43:BW:8:THR:HG22	43:BW:73:ARG:HH12	1.43	0.83
1:AA:67:C:N4	1:AA:70:G:O6	2.11	0.83
1:AA:134:A:N3	1:AA:325:A:H4'	1.93	0.83
1:AA:335:C:N3	1:AA:1434:A:N3	2.03	0.83
1:AA:402:G:N9	1:AA:621:A:N3	2.26	0.83
1:AA:633:G:HO2'	16:AQ:94:PRO:HB3	1.01	0.83
1:AA:1075:C:OP1	3:AB:103:PRO:O	1.96	0.83
1:AA:1249:C:C1'	9:AI:73:HIS:CE1	2.62	0.83
1:AA:1329:A:H5"	13:AM:98:TYR:CG	2.05	0.83
1:AA:1405:G:C8	1:AA:1519:A:H4'	2.12	0.83
7:AG:173:LEU:CD1	7:AG:174:LEU:HD22	2.07	0.83
18:B3:672:G:C5'	23:BD:214:ILE:HG13	2.03	0.83
18:B3:721:A:OP1	34:BO:71:LEU:HG	1.77	0.83
18:B3:967:U:O4'	28:BI:34:TYR:HE2	1.53	0.83
18:B3:1097:A:OP1	25:BF:213:TRP:CE3	2.31	0.83
18:B3:1694:G:N1	45:BY:5:PRO:HG2	1.93	0.83
18:B3:2719:A:C2	37:BR:91:VAL:HG13	2.13	0.83
18:B3:2737:C:H41	35:BP:61:ARG:CZ	1.90	0.83
18:B3:2845:G:C5'	22:BC:24:ILE:CG2	2.53	0.83
19:B4:5:G:O2'	24:BE:50:ARG:NH2	2.11	0.83
23:BD:187:ARG:CB	23:BD:197:ARG:HG3	2.06	0.83
24:BE:106:ALA:CB	24:BE:110:LEU:HD22	2.08	0.83
24:BE:187:THR:O	24:BE:198:TYR:HB2	1.76	0.83
25:BF:174:LYS:HG2	25:BF:200:PHE:HE1	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:44:THR:HG21	27:BH:55:VAL:HG12	1.60	0.83
29:BJ:16:LEU:HD21	29:BJ:75:ALA:HB1	1.59	0.83
29:BJ:53:VAL:CG2	29:BJ:56:PHE:HB2	2.08	0.83
30:BK:93:LYS:HD2	30:BK:96:LYS:HB2	1.58	0.83
30:BK:103:ASN:HD22	30:BK:142:ARG:HB3	1.42	0.83
31:BL:161:ARG:HG2	31:BL:166:THR:CG2	2.08	0.83
32:BM:12:GLY:CA	32:BM:123:LEU:HD12	2.08	0.83
32:BM:84:ARG:O	32:BM:87:VAL:HG22	1.78	0.83
33:BN:35:ILE:HD13	33:BN:35:ILE:H	1.43	0.83
34:BO:81:VAL:CG2	34:BO:101:VAL:HG21	2.07	0.83
1:AA:364:A:C8	12:AL:78:LYS:HD3	2.13	0.83
1:AA:956:U:O2'	17:AS:126:VAL:HG11	1.76	0.83
1:AA:1328:C:C2'	13:AM:96:LYS:HB3	2.07	0.83
6:AE:157:THR:CB	8:AH:127:PHE:CE1	2.62	0.83
7:AG:112:ILE:O	7:AG:116:THR:HG23	1.77	0.83
10:AJ:69:LYS:HB2	14:AN:39:ARG:NH2	1.91	0.83
10:AJ:74:GLU:OE2	14:AN:44:GLU:OE2	1.95	0.83
16:AQ:87:ARG:HD2	16:AQ:104:LYS:HG2	1.60	0.83
18:B3:53:C:H1'	18:B3:122:C:OP2	1.77	0.83
18:B3:764:C:O4'	23:BD:86:GLN:HB2	1.71	0.83
18:B3:906:C:C2	18:B3:1329:A:C5	2.67	0.83
18:B3:1815:A:H8	18:B3:2733:U:N3	1.69	0.83
18:B3:2167:A:H4'	18:B3:2168:G:O5'	1.77	0.83
18:B3:2337:G:P	29:BJ:103:PHE:HB2	2.18	0.83
21:BB:49:HIS:HA	21:BB:56:PRO:HG3	1.60	0.83
21:BB:50:ASP:HB2	21:BB:53:ARG:HD3	1.57	0.83
22:BC:70:GLU:HB2	37:BR:88:ARG:CG	2.07	0.83
26:BG:161:LEU:HD22	31:BL:3:TYR:CE1	2.10	0.83
27:BH:10:ILE:HG23	27:BH:52:LEU:HD23	1.59	0.83
32:BM:11:LYS:HB2	32:BM:36:ARG:HD2	1.60	0.83
33:BN:104:LYS:HD3	33:BN:105:GLY:N	1.93	0.83
34:BO:77:ALA:HB3	34:BO:79:LYS:CD	2.08	0.83
34:BO:128:ALA:C	34:BO:130:ARG:HD3	1.98	0.83
39:BT:62:ILE:HD12	39:BT:63:GLU:N	1.93	0.83
41:BV:20:ARG:CB	41:BV:23:LYS:HB3	2.06	0.83
42:B0:71:HIS:O	42:B0:73:THR:HG23	1.78	0.83
1:AA:132:C:O2	1:AA:263:A:N3	2.11	0.83
1:AA:265:G:C5'	16:AQ:130:ILE:O	2.25	0.83
1:AA:402:G:O3'	5:AD:144:PRO:HB2	1.78	0.83
1:AA:404:U:C1'	5:AD:19:TYR:CE2	2.59	0.83
1:AA:1220:G:H1'	17:AS:77:ARG:HA	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1303:C:N4	13:AM:40:ARG:NE	2.27	0.83
3:AB:32:GLN:NE2	3:AB:152:SER:HB3	1.94	0.83
3:AB:141:PRO:HA	8:AH:68:LEU:HD13	1.57	0.83
5:AD:86:LEU:HD21	5:AD:104:PHE:CD2	2.13	0.83
9:AI:28:ILE:HG12	9:AI:64:ILE:CG2	2.08	0.83
9:AI:46:LYS:HB3	9:AI:49:GLU:CG	2.08	0.83
9:AI:73:HIS:O	9:AI:77:VAL:HG23	1.78	0.83
10:AJ:73:GLY:CA	14:AN:25:SER:O	2.26	0.83
10:AJ:75:GLY:HA3	14:AN:40:GLN:HG2	0.84	0.83
18:B3:72:C:H4'	44:BX:49:LYS:NZ	1.93	0.83
18:B3:698:A:OP1	41:BV:132:LEU:CB	2.26	0.83
18:B3:948:G:N2	36:BQ:100:LYS:CD	2.41	0.83
18:B3:1120:U:C2	18:B3:1226:G:OP2	2.32	0.83
18:B3:1429:U:OP2	33:BN:124:GLN:CG	2.24	0.83
18:B3:1846:U:O2'	21:BB:181:ALA:N	1.99	0.83
20:BA:32:VAL:CG1	20:BA:169:VAL:HG23	2.08	0.83
22:BC:98:LEU:HA	22:BC:99:ARG:NH1	1.93	0.83
25:BF:83:VAL:HG23	25:BF:136:GLY:H	1.42	0.83
26:BG:150:VAL:HB	26:BG:198:ALA:CB	2.07	0.83
27:BH:132:VAL:HG11	27:BH:157:ASN:ND2	1.93	0.83
31:BL:53:LYS:HD3	31:BL:55:LYS:CG	2.08	0.83
35:BP:21:VAL:HG23	35:BP:22:TRP:CZ2	2.13	0.83
39:BT:92:TYR:O	39:BT:95:LYS:HB3	1.77	0.83
41:BV:125:LYS:HA	41:BV:145:GLU:CB	2.08	0.83
44:BX:48:ARG:NH2	44:BX:49:LYS:HB3	1.91	0.83
1:AA:12:U:H4'	1:AA:526:C:H5"	1.55	0.83
1:AA:359:U:C6	2:AT:391:LYS:HG3	2.12	0.83
1:AA:553:A:P	12:AL:40:SER:HB3	2.16	0.83
1:AA:712:A:C6	11:AK:124:SER:HA	2.13	0.83
1:AA:1179:A:P	9:AI:116:LEU:CG	2.65	0.83
2:AT:109:VAL:HG22	2:AT:138:GLN:HG3	1.59	0.83
6:AE:102:VAL:HG21	6:AE:189:LEU:CG	2.07	0.83
18:B3:448:G:N3	23:BD:47:GLN:CB	2.40	0.83
18:B3:793:A:P	35:BP:83:THR:HG21	2.17	0.83
18:B3:1095:U:HO2'	25:BF:209:PRO:HB3	1.40	0.83
18:B3:1206:C:O2'	18:B3:1207:A:H5'	1.77	0.83
18:B3:1305:C:H2'	23:BD:194:ARG:HH21	1.41	0.83
18:B3:1807:U:O5'	18:B3:2885:A:O4'	1.96	0.83
18:B3:1862:C:H5'	21:BB:7:GLN:O	1.77	0.83
18:B3:2040:C:H5'	18:B3:2759:C:HO2'	1.03	0.83
18:B3:2350:G:OP1	29:BJ:139:ARG:HD2	1.74	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:25:ARG:CD	22:BC:176:HIS:HB2	1.99	0.83
31:BL:98:ARG:HA	31:BL:129:PHE:CE2	2.13	0.83
33:BN:56:ALA:CB	33:BN:73:LYS:HB2	2.08	0.83
41:BV:127:ARG:HG2	41:BV:128:PHE:H	1.42	0.83
43:BW:59:TRP:CH2	43:BW:66:VAL:HG22	2.13	0.83
45:BY:2:LYS:HD3	45:BY:3:GLY:N	1.93	0.83
45:BY:27:HIS:N	45:BY:30:LYS:HD3	1.93	0.83
1:AA:1291:G:C5'	7:AG:111:ARG:HH22	1.88	0.83
1:AA:1319:A:C5'	17:AS:115:TYR:CE2	1.95	0.83
1:AA:1329:A:H2	13:AM:92:ILE:C	1.81	0.83
1:AA:1418:A:H2	18:B3:1989:G:C2	1.97	0.83
18:B3:433:C:H5'	31:BL:149:TRP:HZ3	1.11	0.83
18:B3:772:G:N2	45:BY:48:TRP:CB	2.41	0.83
18:B3:814:G:C5'	35:BP:129:ASN:OD1	2.19	0.83
18:B3:1872:C:C2	21:BB:22:ARG:CG	2.62	0.83
18:B3:2580:G:C5'	18:B3:2680:A:N6	2.42	0.83
22:BC:48:TYR:HB3	22:BC:334:ILE:O	1.77	0.83
25:BF:85:VAL:HG23	25:BF:133:VAL:HG21	1.61	0.83
28:BI:36:LEU:CB	28:BI:87:LEU:HB3	2.03	0.83
28:BI:88:ARG:HA	28:BI:88:ARG:NH1	1.93	0.83
32:BM:138:GLY:O	32:BM:142:THR:HG23	1.79	0.83
37:BR:95:PHE:HB2	38:BS:21:PHE:CG	2.12	0.83
40:BU:31:LEU:HD22	40:BU:101:PRO:CD	2.08	0.83
46:BZ:9:THR:HB	46:BZ:19:HIS:HB2	1.60	0.83
1:AA:66:G:N3	1:AA:69:G:N7	2.26	0.83
1:AA:129:U:H4'	16:AQ:127:CYS:O	1.77	0.83
5:AD:175:ARG:HG2	5:AD:191:ALA:CB	2.09	0.83
6:AE:98:LYS:CE	6:AE:114:ILE:HB	2.04	0.83
6:AE:153:LEU:HD11	8:AH:98:PHE:HB3	0.84	0.83
9:AI:58:LYS:HA	9:AI:61:ASN:ND2	1.92	0.83
18:B3:112:G:H4'	18:B3:113:A:OP2	1.78	0.83
18:B3:1860:U:O2'	21:BB:9:LYS:NZ	2.09	0.83
18:B3:2346:C:C5'	29:BJ:47:SER:O	2.26	0.83
18:B3:2397:G:C5	41:BV:46:LYS:NZ	2.43	0.83
18:B3:2657:G:P	22:BC:19:LYS:HA	2.19	0.83
18:B3:2812:A:H2	18:B3:2814:A:H62	1.25	0.83
18:B3:2820:A:OP1	22:BC:145:ARG:NE	2.12	0.83
21:BB:171:GLY:N	47:B9:67:ALA:CB	2.38	0.83
22:BC:25:ARG:HD3	22:BC:176:HIS:CB	2.00	0.83
22:BC:49:LYS:HG3	22:BC:333:ARG:H	1.42	0.83
23:BD:250:THR:HG22	23:BD:253:ALA:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:20:PHE:HA	24:BE:23:ARG:HB2	1.61	0.83
24:BE:135:VAL:HG21	24:BE:142:PHE:CE1	2.14	0.83
26:BG:166:PRO:HA	26:BG:169:CYS:SG	2.19	0.83
28:BI:86:HIS:HE1	28:BI:138:VAL:HG11	1.43	0.83
31:BL:50:LEU:HD21	31:BL:118:TYR:CE2	2.13	0.83
32:BM:84:ARG:NE	32:BM:84:ARG:HA	1.94	0.83
38:BS:47:ARG:NH1	38:BS:47:ARG:HB3	1.93	0.83
40:BU:58:VAL:HG21	40:BU:63:LYS:CG	2.05	0.83
45:BY:4:THR:H	45:BY:5:PRO:HA	1.43	0.83
45:BY:33:CYS:HA	45:BY:38:TYR:CE1	2.13	0.83
47:B9:55:THR:HG22	47:B9:61:LYS:HG2	1.61	0.83
1:AA:69:G:O4'	1:AA:174:C:C6	2.32	0.83
1:AA:121:C:N1	1:AA:235:C:C4	2.35	0.83
1:AA:131:C:H6	16:AQ:128:ARG:HG3	0.81	0.83
1:AA:318:G:H1'	1:AA:1468:A:C1'	2.08	0.83
1:AA:559:A:C8	12:AL:36:THR:HG23	2.10	0.83
1:AA:792:A:C6	1:AA:1498:U:OP2	2.18	0.83
1:AA:919:A:C5'	1:AA:1079:G:H22	1.92	0.83
1:AA:1319:A:H5'	17:AS:115:TYR:CE2	2.12	0.83
1:AA:1419:G:H21	18:B3:1990:C:H5'	0.67	0.83
9:AI:33:SER:HB2	9:AI:38:VAL:HG23	1.59	0.83
9:AI:51:LEU:HD22	9:AI:58:LYS:HZ2	1.44	0.83
15:AO:70:ILE:O	15:AO:73:ILE:HG22	1.78	0.83
18:B3:81:G:C5'	40:BU:74:TYR:O	2.27	0.83
18:B3:91:G:H2'	44:BX:41:LEU:CB	2.03	0.83
18:B3:621:C:H3'	42:B0:36:LYS:CB	2.08	0.83
18:B3:621:C:C3'	42:B0:36:LYS:HB2	1.97	0.83
18:B3:951:A:H5'	36:BQ:43:LYS:HD3	1.59	0.83
18:B3:1055:G:OP1	28:BI:98:ARG:HG3	1.76	0.83
18:B3:1805:G:H5'	18:B3:2875:A:C3'	1.87	0.83
18:B3:1811:A:C4	18:B3:2752:C:O2	2.31	0.83
18:B3:1816:C:OP1	18:B3:2750:G:O3'	1.86	0.83
18:B3:2244:A:H4'	31:BL:27:TRP:HZ3	1.17	0.83
18:B3:2336:G:N2	29:BJ:127:TYR:CE2	2.34	0.83
18:B3:2820:A:H1'	22:BC:89:VAL:CB	2.07	0.83
18:B3:2845:G:C4'	22:BC:24:ILE:HG22	1.97	0.83
21:BB:47:ILE:CD1	47:B9:53:ILE:HD11	2.08	0.83
22:BC:81:PRO:HD3	22:BC:204:VAL:HG13	1.60	0.83
23:BD:159:GLN:O	23:BD:217:ALA:HB2	1.79	0.83
27:BH:40:HIS:CE1	32:BM:127:ARG:NH1	2.47	0.83
28:BI:52:LEU:HD21	28:BI:137:SER:HB3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:71:ARG:HD2	29:BJ:74:LYS:HB3	1.60	0.83
33:BN:20:TYR:HB2	33:BN:142:PRO:CB	2.09	0.83
35:BP:9:LEU:HD12	35:BP:37:ARG:HE	1.43	0.83
35:BP:22:TRP:CZ2	35:BP:49:ILE:HG23	2.14	0.83
37:BR:32:ARG:HD2	37:BR:62:VAL:HB	1.61	0.83
39:BT:65:PRO:C	39:BT:83:PHE:HB3	1.99	0.83
41:BV:90:LEU:HD13	41:BV:96:GLU:CG	2.08	0.83
41:BV:143:VAL:HG22	41:BV:144:VAL:H	1.43	0.83
42:B0:96:ILE:CG1	42:B0:100:ILE:HG21	2.09	0.83
45:BY:46:TYR:CD2	45:BY:48:TRP:HB3	2.13	0.83
46:BZ:67:VAL:HG23	46:BZ:85:LYS:O	1.78	0.83
1:AA:58:C:O2'	1:AA:388:G:N1	2.11	0.83
1:AA:64:G:N9	1:AA:97:G:C6	2.38	0.83
1:AA:131:C:C4'	1:AA:264:U:C1'	2.48	0.83
1:AA:320:C:H1'	1:AA:1435:G:C1'	2.08	0.83
1:AA:404:U:H1'	5:AD:19:TYR:HE2	1.42	0.83
1:AA:538:G:H5'	12:AL:141:GLU:CB	2.09	0.83
1:AA:928:G:C5'	1:AA:1533:C:C5	2.59	0.83
4:AC:108:LEU:HD21	4:AC:181:LEU:HD22	1.60	0.83
9:AI:35:ILE:HD11	9:AI:45:PHE:CE2	2.14	0.83
18:B3:82:C:P	40:BU:75:ARG:CG	2.65	0.83
18:B3:449:A:N6	18:B3:1349:G:C2'	2.32	0.83
18:B3:538:C:N3	42:B0:21:HIS:ND1	2.25	0.83
18:B3:553:G:C4'	42:B0:69:SER:OG	2.27	0.83
18:B3:671:A:C5'	23:BD:212:ASN:O	2.27	0.83
18:B3:921:G:H5"	41:BV:42:ILE:N	1.92	0.83
18:B3:1228:C:HO3'	32:BM:47:PHE:HD2	1.23	0.83
18:B3:1304:U:C5'	23:BD:193:TYR:CE2	2.62	0.83
18:B3:1311:G:N7	23:BD:185:LYS:HB2	1.92	0.83
18:B3:1399:A:O2'	43:BW:56:GLN:HG3	1.77	0.83
18:B3:1565:C:O3'	35:BP:59:LYS:CG	2.27	0.83
18:B3:1787:C:C2	18:B3:2883:A:C8	2.66	0.83
18:B3:2133:U:C5'	18:B3:2134:G:H5'	2.08	0.83
18:B3:2671:U:P	22:BC:178:ALA:CB	2.66	0.83
18:B3:2712:G:O2'	37:BR:43:GLY:CA	2.17	0.83
18:B3:2848:G:P	22:BC:173:LYS:CE	2.67	0.83
20:BA:108:ASN:CB	20:BA:162:VAL:HG23	2.08	0.83
20:BA:117:ILE:HD12	20:BA:118:LYS:N	1.93	0.83
23:BD:103:LYS:CE	23:BD:106:ARG:HB3	2.09	0.83
24:BE:110:LEU:HA	24:BE:115:LEU:CG	2.08	0.83
27:BH:12:VAL:HG22	27:BH:13:PRO:HB3	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:24:ILE:HD13	27:BH:25:VAL:H	1.41	0.83
28:BI:88:ARG:HD3	28:BI:89:VAL:N	1.94	0.83
29:BJ:59:ARG:NH1	29:BJ:59:ARG:HB3	1.94	0.83
30:BK:53:PHE:CE1	30:BK:86:LYS:CE	2.62	0.83
31:BL:6:LEU:CD1	31:BL:44:PRO:HD2	2.09	0.83
37:BR:61:THR:CG2	37:BR:72:LYS:HB3	2.09	0.83
40:BU:46:LYS:HD2	40:BU:47:ALA:N	1.94	0.83
44:BX:51:ILE:O	44:BX:54:VAL:HG12	1.77	0.83
1:AA:62:U:O2'	1:AA:385:C:C2'	2.27	0.82
1:AA:231:G:C2	1:AA:263:A:C2	2.47	0.82
1:AA:615:C:OP1	5:AD:107:ARG:NH1	2.12	0.82
1:AA:1220:G:H21	17:AS:102:PHE:CB	1.90	0.82
3:AB:107:THR:HB	3:AB:134:GLU:OE1	1.79	0.82
18:B3:155:C:P	31:BL:190:TRP:CE3	2.71	0.82
18:B3:449:A:C2	18:B3:1348:A:C5	2.67	0.82
18:B3:629:A:C5'	42:B0:39:ASP:N	2.42	0.82
18:B3:677:C:H4'	23:BD:256:LYS:HE3	1.54	0.82
18:B3:1160:G:N2	18:B3:1206:C:C6	2.46	0.82
18:B3:1167:G:C1'	30:BK:107:ASP:O	2.26	0.82
18:B3:1206:C:C2	18:B3:1207:A:N7	2.46	0.82
18:B3:1206:C:O2	18:B3:1207:A:C1'	2.26	0.82
18:B3:1227:C:C1'	32:BM:132:ARG:NH2	2.27	0.82
18:B3:1349:G:P	23:BD:35:HIS:O	2.36	0.82
18:B3:1350:U:C5	23:BD:43:LYS:CD	2.61	0.82
18:B3:2565:C:C4	27:BH:171:ASP:CB	2.61	0.82
21:BB:27:LYS:CD	21:BB:122:ARG:HB2	2.07	0.82
21:BB:61:VAL:HG22	21:BB:62:PHE:CD1	2.14	0.82
22:BC:28:VAL:HG11	22:BC:339:LYS:CD	2.09	0.82
22:BC:89:VAL:O	22:BC:157:VAL:HG23	1.79	0.82
22:BC:116:ARG:NH1	22:BC:176:HIS:HB3	1.94	0.82
22:BC:357:TRP:HB3	38:BS:15:PRO:CA	2.09	0.82
24:BE:46:THR:HG21	24:BE:49:TYR:HB2	1.61	0.82
33:BN:81:ARG:H	33:BN:81:ARG:HH11	1.27	0.82
35:BP:3:LEU:CD1	35:BP:31:ILE:HD12	2.08	0.82
1:AA:190(E):U:H5"	16:AQ:130:ILE:CD1	2.07	0.82
1:AA:860:A:C5'	3:AB:133:LYS:NZ	2.42	0.82
1:AA:1239:A:N3	7:AG:184:ARG:CZ	2.37	0.82
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.14	0.82
18:B3:196:G:OP2	31:BL:179:PHE:CE1	2.32	0.82
18:B3:262:A:C5	26:BG:191:GLN:NE2	2.46	0.82
18:B3:646:G:C4'	23:BD:106:ARG:NH2	2.42	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:750:A:H1'	23:BD:116:GLU:HG2	0.85	0.82
18:B3:882:A:H4'	45:BY:2:LYS:N	1.95	0.82
18:B3:1286:A:OP1	25:BF:155:ILE:HA	1.79	0.82
18:B3:1788:U:O2'	18:B3:2881:C:C2	2.32	0.82
18:B3:2337:G:C2'	29:BJ:127:TYR:HA	1.98	0.82
18:B3:2382:A:O4'	46:BZ:10:TYR:HD2	1.60	0.82
18:B3:2397:G:C8	41:BV:46:LYS:CE	2.62	0.82
21:BB:27:LYS:HD2	21:BB:122:ARG:CB	2.08	0.82
21:BB:241:ARG:HB3	21:BB:241:ARG:NH1	1.93	0.82
22:BC:251:ILE:CG2	22:BC:259:VAL:HG11	2.09	0.82
22:BC:269:ARG:HB3	22:BC:269:ARG:CZ	2.09	0.82
25:BF:172:LEU:HD13	25:BF:173:GLY:N	1.94	0.82
27:BH:107:ASP:HB2	27:BH:127:PRO:CA	2.09	0.82
27:BH:107:ASP:O	27:BH:126:VAL:HG12	1.79	0.82
33:BN:25:PHE:CD1	33:BN:28:THR:HG21	2.14	0.82
35:BP:3:LEU:HD21	35:BP:32:ALA:HA	1.58	0.82
35:BP:41:ARG:NH1	35:BP:49:ILE:HG21	1.93	0.82
42:B0:85:LEU:HB2	42:B0:92:TYR:CB	2.05	0.82
43:BW:59:TRP:CH2	43:BW:66:VAL:HG13	2.13	0.82
1:AA:337:C:O4'	1:AA:1468:A:H2	1.57	0.82
1:AA:523:A:H2	12:AL:115:GLY:N	1.70	0.82
4:AC:39:ARG:HB3	4:AC:46:GLU:HG3	1.60	0.82
5:AD:175:ARG:HG2	5:AD:191:ALA:HB2	1.60	0.82
6:AE:102:VAL:HG23	6:AE:189:LEU:HD23	0.84	0.82
8:AH:36:PHE:O	8:AH:39:VAL:HG12	1.79	0.82
15:AO:82:GLU:HG2	15:AO:85:GLU:CG	2.09	0.82
18:B3:45:A:H2	18:B3:115:U:N3	1.77	0.82
18:B3:80:A:C5'	40:BU:74:TYR:CZ	2.62	0.82
18:B3:553:G:H4'	42:B0:69:SER:OG	1.77	0.82
18:B3:795:G:H2'	18:B3:817:G:N2	1.94	0.82
18:B3:1163:G:C5	30:BK:51:LYS:HD2	1.98	0.82
18:B3:1167:G:O2'	30:BK:110:ILE:HG22	1.77	0.82
18:B3:1227:C:O4'	32:BM:132:ARG:NH1	2.12	0.82
18:B3:1231:A:N7	18:B3:2523:U:O2	2.11	0.82
18:B3:2334:C:O4'	29:BJ:113:ILE:N	2.11	0.82
18:B3:2459:G:OP1	46:BZ:86:ARG:HD3	1.78	0.82
18:B3:2823:G:OP2	22:BC:135:LYS:HG2	1.78	0.82
18:B3:2846:C:O3'	22:BC:172:GLN:OE1	1.97	0.82
19:B4:98:C:O2'	25:BF:222:PHE:HE1	1.62	0.82
22:BC:115:ARG:HA	22:BC:115:ARG:NH1	1.93	0.82
23:BD:75:ARG:HD3	23:BD:80:GLY:HA2	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:120:ALA:O	23:BD:234:LEU:HD22	1.78	0.82
33:BN:111:LEU:CG	33:BN:150:THR:HB	2.08	0.82
34:BO:95:GLU:HG3	34:BO:97:PRO:CD	2.08	0.82
35:BP:14:VAL:HG21	35:BP:22:TRP:HH2	1.43	0.82
40:BU:60:ARG:CB	40:BU:103:LYS:HB2	2.10	0.82
1:AA:33:A:N1	12:AL:47:SER:CB	2.41	0.82
1:AA:69:G:C2'	1:AA:171:A:C6	2.62	0.82
1:AA:923:A:O2'	1:AA:1398:A:N7	2.07	0.82
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.09	0.82
5:AD:87:SER:CA	5:AD:93:LEU:HD13	2.09	0.82
7:AG:185:ASN:HB2	7:AG:191:GLU:CB	2.09	0.82
9:AI:100:SER:N	9:AI:105:LYS:HA	1.95	0.82
13:AM:88:ARG:HH22	13:AM:115:ARG:HH11	1.24	0.82
18:B3:671:A:H4'	23:BD:212:ASN:O	1.78	0.82
18:B3:762:C:N4	41:BV:23:LYS:CE	2.41	0.82
18:B3:778:C:H5"	45:BY:9:LYS:HZ3	1.39	0.82
18:B3:1167:G:H4'	30:BK:111:GLU:CA	1.98	0.82
18:B3:1704:G:N2	18:B3:2736:U:H4'	1.95	0.82
18:B3:2346:C:C1'	29:BJ:66:VAL:N	1.95	0.82
18:B3:2434:A:P	46:BZ:35:PHE:CG	2.72	0.82
18:B3:2806:C:H5'	22:BC:343:THR:HG23	1.58	0.82
19:B4:49:G:C2	24:BE:93:THR:O	2.32	0.82
22:BC:39:PRO:CB	22:BC:182:LEU:HB2	2.08	0.82
22:BC:52:MET:HE2	22:BC:53:THR:N	1.93	0.82
25:BF:168:ILE:HA	25:BF:175:TYR:HA	1.62	0.82
34:BO:33:TYR:CB	34:BO:36:LEU:HD12	2.08	0.82
35:BP:94:TRP:HA	35:BP:97:ARG:HH22	1.45	0.82
37:BR:74:MET:HB2	37:BR:75:PRO:HA	1.61	0.82
37:BR:117:PRO:HA	37:BR:135:VAL:HG13	1.60	0.82
42:B0:72:LYS:N	42:B0:90:LYS:HD2	1.95	0.82
42:B0:96:ILE:CD1	42:B0:100:ILE:HG21	2.09	0.82
45:BY:30:LYS:HE3	45:BY:30:LYS:C	1.98	0.82
1:AA:1118:C:C5'	9:AI:118:ALA:CB	2.57	0.82
1:AA:1309:G:H1	13:AM:96:LYS:N	1.77	0.82
4:AC:54:THR:CG2	4:AC:89:ARG:HG2	2.09	0.82
6:AE:177:ILE:HD11	6:AE:187:LEU:HB2	1.60	0.82
17:AS:56:PHE:HB2	17:AS:80:MET:CE	2.10	0.82
18:B3:618:G:O4'	42:B0:46:PHE:C	2.18	0.82
18:B3:676:C:O3'	23:BD:233:ASN:N	2.12	0.82
18:B3:1694:G:N2	45:BY:5:PRO:CG	0.67	0.82
18:B3:1809:G:C2	18:B3:2732:U:C5'	2.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1816:C:O4'	18:B3:2746:A:N3	2.13	0.82
18:B3:2099:G:C3'	23:BD:68:ARG:CZ	2.54	0.82
18:B3:2387:U:O3'	36:BQ:88:ARG:HB2	1.79	0.82
18:B3:2737:C:H3'	35:BP:60:SER:CA	1.70	0.82
18:B3:2738:G:H8	35:BP:59:LYS:HZ1	0.84	0.82
18:B3:2806:C:C5'	22:BC:343:THR:HG23	2.08	0.82
19:B4:7:G:OP2	24:BE:28:THR:CB	2.27	0.82
20:BA:55:LEU:HG	20:BA:167:VAL:CG2	2.06	0.82
21:BB:44:VAL:HG13	21:BB:58:ALA:HB1	1.61	0.82
23:BD:168:LEU:HD12	23:BD:169:LYS:N	1.94	0.82
27:BH:10:ILE:HD13	27:BH:11:GLU:N	1.94	0.82
29:BJ:155:LYS:O	29:BJ:158:THR:HG22	1.78	0.82
32:BM:137:LEU:HD13	32:BM:139:LYS:N	1.94	0.82
34:BO:38:ARG:NE	34:BO:38:ARG:HA	1.94	0.82
35:BP:22:TRP:HB3	35:BP:50:VAL:O	1.78	0.82
37:BR:120:LYS:HG3	37:BR:121:GLU:OE2	1.78	0.82
1:AA:35:G:C4'	12:AL:128:SER:HB2	2.10	0.82
1:AA:545:C:C4'	5:AD:66:ASP:CG	2.32	0.82
1:AA:913:A:P	12:AL:62:LYS:NZ	2.53	0.82
1:AA:989:C:C2	1:AA:1016:A:C4	2.66	0.82
1:AA:1071:C:OP1	6:AE:90:ARG:CB	2.24	0.82
1:AA:1220:G:OP2	17:AS:80:MET:HB2	1.78	0.82
1:AA:1225:A:C2	17:AS:126:VAL:HG23	2.14	0.82
1:AA:1504:G:OP2	1:AA:1508:G:OP2	1.58	0.82
4:AC:31:GLU:HG3	4:AC:57:VAL:CG2	2.10	0.82
7:AG:111:ARG:NH2	9:AI:41:GLU:CG	2.43	0.82
18:B3:27:U:C3'	18:B3:1319:G:C4'	2.42	0.82
18:B3:145:A:H4'	31:BL:137:GLN:NE2	1.92	0.82
18:B3:540:A:C5'	42:B0:18:LYS:H	1.92	0.82
18:B3:621:C:C3'	42:B0:36:LYS:HD2	2.09	0.82
18:B3:629:A:O5'	42:B0:39:ASP:N	2.07	0.82
18:B3:721:A:C2	34:BO:141:ARG:HG3	2.15	0.82
18:B3:1164:U:OP1	30:BK:50:THR:C	2.18	0.82
18:B3:1761:U:C2'	35:BP:80:ARG:NH2	2.43	0.82
18:B3:1875:A:C5'	21:BB:127:ARG:HH22	1.67	0.82
18:B3:2518:C:OP1	28:BI:4:ARG:NH1	2.12	0.82
18:B3:2820:A:OP1	22:BC:145:ARG:CZ	2.26	0.82
18:B3:2853:U:OP1	22:BC:170:LEU:HA	1.79	0.82
21:BB:112:VAL:O	21:BB:133:VAL:HG12	1.79	0.82
21:BB:177:PRO:CB	47:B9:22:ARG:CD	2.57	0.82
23:BD:228:ASN:O	23:BD:232:LEU:HD22	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:138:VAL:CG2	26:BG:198:ALA:HB3	2.05	0.82
27:BH:129:ARG:CB	27:BH:153:ASP:HB2	2.10	0.82
28:BI:50:VAL:HG13	28:BI:166:ILE:CD1	2.10	0.82
28:BI:151:GLY:HA2	28:BI:154:ARG:HE	1.43	0.82
31:BL:150:ILE:HD13	31:BL:150:ILE:H	1.44	0.82
33:BN:69:THR:CG2	33:BN:74:GLU:HB2	2.10	0.82
35:BP:31:ILE:HG22	35:BP:43:LEU:CD1	2.06	0.82
42:B0:97:ALA:O	42:B0:100:ILE:HD12	1.80	0.82
45:BY:9:LYS:HE2	45:BY:10:ARG:CA	2.10	0.82
1:AA:1220:G:H1'	17:AS:77:ARG:CA	1.86	0.82
1:AA:1496:C:O2	1:AA:1517:G:C4	1.89	0.82
1:AA:1505:G:O5'	1:AA:1506:U:C6	2.12	0.82
2:AT:110:ASP:OD2	18:B3:2697:A:H2	1.40	0.82
6:AE:183:VAL:HG12	6:AE:187:LEU:HD13	1.59	0.82
7:AG:199:ASN:HB3	7:AG:207:SER:HB2	1.62	0.82
8:AH:48:GLU:HG2	8:AH:49:PHE:H	1.44	0.82
10:AJ:70:THR:C	14:AN:38:CYS:C	2.22	0.82
13:AM:15:LEU:CD2	13:AM:66:LEU:HD11	2.10	0.82
13:AM:29:VAL:HG21	13:AM:54:LEU:HD23	1.59	0.82
13:AM:134:ARG:HB2	13:AM:136:GLN:CD	1.98	0.82
16:AQ:109:HIS:HB2	16:AQ:130:ILE:HD13	1.60	0.82
18:B3:68:U:C3'	44:BX:55:LEU:HB3	2.09	0.82
18:B3:778:C:O2'	45:BY:1:GLY:N	2.13	0.82
18:B3:843:A:OP2	33:BN:131:ALA:HB2	0.73	0.82
18:B3:894:A:H2	23:BD:98:MET:HB2	1.40	0.82
18:B3:897:A:OP1	41:BV:26:LYS:HB3	1.78	0.82
18:B3:1226:G:H5'	18:B3:1246:A:N6	1.94	0.82
18:B3:1382:G:HO2'	43:BW:26:LYS:HG3	1.41	0.82
18:B3:1470:A:H1'	31:BL:95:ARG:NH2	1.69	0.82
18:B3:1733:A:O4'	22:BC:225:PHE:O	1.96	0.82
18:B3:2283:G:C6	28:BI:105:CYS:CB	2.63	0.82
18:B3:2737:C:C5	35:BP:61:ARG:CA	2.63	0.82
21:BB:101:LEU:HD22	21:BB:102:PRO:N	1.95	0.82
21:BB:106:VAL:CG2	21:BB:110:THR:HG21	2.08	0.82
22:BC:42:LEU:HA	22:BC:180:ILE:CD1	2.09	0.82
22:BC:75:VAL:HG22	22:BC:76:THR:H	1.44	0.82
31:BL:46:LYS:O	31:BL:49:ARG:HB3	1.79	0.82
32:BM:123:LEU:HD23	32:BM:125:VAL:H	1.45	0.82
33:BN:12:LYS:HG3	33:BN:151:GLU:O	1.79	0.82
40:BU:14:LYS:HA	40:BU:17:LYS:HG2	1.61	0.82
41:BV:123:ILE:H	41:BV:123:ILE:HD13	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:65:LYS:HE3	46:BZ:65:LYS:H	1.44	0.82
1:AA:5:U:O4	6:AE:172:PRO:CB	2.15	0.82
1:AA:676:A:H3'	11:AK:121:PRO:CD	2.09	0.82
1:AA:839:U:H5'	1:AA:840:C:H5	1.42	0.82
1:AA:924:C:C1'	1:AA:1398:A:H2'	2.09	0.82
1:AA:987:G:C6	17:AS:77:ARG:NH1	2.47	0.82
1:AA:1370:G:OP2	9:AI:123:PRO:HG2	1.79	0.82
4:AC:28:LEU:HD12	4:AC:57:VAL:HG22	1.61	0.82
4:AC:94:GLY:HA3	4:AC:124:TYR:HE2	1.44	0.82
5:AD:102:GLU:HA	5:AD:190:GLU:CB	2.07	0.82
8:AH:81:LYS:HG3	8:AH:86:GLU:HA	1.61	0.82
9:AI:50:PRO:HG2	9:AI:84:ILE:CG2	2.09	0.82
18:B3:107:U:C6	44:BX:60:GLU:CA	2.58	0.82
18:B3:155:C:P	31:BL:190:TRP:CD2	2.72	0.82
18:B3:243:A:N1	18:B3:377:C:O2	1.80	0.82
18:B3:1165:U:C2	30:BK:44:GLU:OE1	2.23	0.82
18:B3:1227:C:H4'	32:BM:132:ARG:NH2	1.94	0.82
18:B3:1304:U:H3'	23:BD:194:ARG:HD2	1.59	0.82
18:B3:1714:C:C1'	18:B3:2744:G:H21	1.91	0.82
18:B3:2336:G:O6	29:BJ:118:SER:N	2.12	0.82
18:B3:2596:A:O2'	37:BR:74:MET:HE1	1.77	0.82
18:B3:2829:G:P	22:BC:130:THR:HG23	2.20	0.82
19:B4:86:G:P	25:BF:218:LYS:NZ	2.52	0.82
19:B4:119:C:O2	24:BE:71:GLY:O	1.96	0.82
20:BA:90:LEU:HG	20:BA:124:LEU:HD11	1.61	0.82
23:BD:250:THR:HG23	23:BD:253:ALA:H	1.43	0.82
26:BG:115:VAL:HG13	26:BG:117:GLU:N	1.95	0.82
26:BG:136:ASN:O	26:BG:139:VAL:HG12	1.78	0.82
1:AA:67:C:C2	1:AA:70:G:N7	2.47	0.82
1:AA:111:G:N2	1:AA:389:A:H5'	1.95	0.82
1:AA:362:G:H4'	12:AL:77:ILE:O	1.77	0.82
1:AA:546:G:C4'	1:AA:548:G:O2'	2.27	0.82
1:AA:562:C:O2	12:AL:32:ARG:CD	2.26	0.82
2:AT:465:LYS:HZ1	2:AT:511:LEU:HG	1.36	0.82
7:AG:112:ILE:CD1	7:AG:189:ILE:HB	2.10	0.82
8:AH:103:LEU:HD22	8:AH:124:ILE:HG22	1.61	0.82
9:AI:100:SER:CA	9:AI:116:LEU:HB2	2.10	0.82
10:AJ:28:SER:HB3	10:AJ:34:LEU:HD21	1.61	0.82
10:AJ:79:TRP:O	14:AN:39:ARG:NH1	2.12	0.82
18:B3:721:A:C2	34:BO:139:ILE:HG21	2.15	0.82
18:B3:762:C:H41	41:BV:23:LYS:CE	1.92	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:948:G:H21	36:BQ:100:LYS:HD3	1.45	0.82
18:B3:1348:A:O2'	23:BD:39:THR:HA	1.76	0.82
18:B3:1653:A:C6	21:BB:183:ARG:NH2	2.48	0.82
18:B3:1732:A:N1	18:B3:2840:A:C4	2.36	0.82
18:B3:1800:G:P	35:BP:69:LYS:HZ1	2.02	0.82
18:B3:1835:U:H5	18:B3:1840:A:N7	1.77	0.82
18:B3:1872:C:C5	21:BB:22:ARG:HG3	2.14	0.82
18:B3:2368:A:N7	24:BE:30:TYR:O	2.13	0.82
18:B3:2596:A:C5'	37:BR:73:VAL:HG12	2.10	0.82
18:B3:2654:C:O2'	22:BC:259:VAL:HG13	1.78	0.82
18:B3:2737:C:H5	35:BP:61:ARG:NE	1.35	0.82
18:B3:2847:G:P	22:BC:174:LYS:NZ	2.53	0.82
18:B3:2913:A:H2	22:BC:124:SER:OG	1.56	0.82
19:B4:97:U:H3	25:BF:220:LYS:HD3	1.02	0.82
20:BA:198:TRP:O	20:BA:201:VAL:HG22	1.78	0.82
21:BB:195:TRP:CG	21:BB:196:PRO:HA	2.14	0.82
22:BC:88:VAL:N	22:BC:104:VAL:HG21	1.95	0.82
22:BC:260:MET:HB2	32:BM:66:THR:HG21	1.56	0.82
24:BE:64:ILE:HG23	24:BE:75:LEU:CD2	2.10	0.82
24:BE:164:LYS:O	24:BE:167:SER:HB2	1.78	0.82
28:BI:90:ARG:CZ	28:BI:90:ARG:HA	2.10	0.82
29:BJ:71:ARG:HD2	29:BJ:74:LYS:CB	2.08	0.82
30:BK:93:LYS:CD	30:BK:96:LYS:HB2	2.09	0.82
31:BL:169:LYS:HA	31:BL:169:LYS:CE	2.10	0.82
33:BN:41:THR:CB	33:BN:109:THR:HG23	2.10	0.82
33:BN:56:ALA:HB3	33:BN:73:LYS:O	1.80	0.82
37:BR:59:MET:CA	37:BR:74:MET:HG3	2.10	0.82
41:BV:111:ILE:CD1	41:BV:129:VAL:HB	2.10	0.82
43:BW:16:HIS:HB2	43:BW:30:ARG:CG	2.10	0.82
46:BZ:66:LYS:HA	46:BZ:86:ARG:HD3	1.60	0.82
47:B9:54:TRP:CZ2	47:B9:65:GLY:HA3	2.15	0.82
1:AA:67:C:H2'	1:AA:171:A:C2	2.15	0.82
1:AA:190(E):U:H5"	16:AQ:130:ILE:CG1	2.09	0.82
1:AA:363:A:H61	12:AL:44:GLY:HA3	1.44	0.82
1:AA:552:U:P	12:AL:108:GLY:O	2.38	0.82
1:AA:712:A:N6	11:AK:124:SER:HA	1.95	0.82
1:AA:1175:G:C5	9:AI:108:PHE:HB3	2.15	0.82
1:AA:1418:A:H2	18:B3:1989:G:H21	1.21	0.82
3:AB:70:GLU:CG	3:AB:118:ARG:HG3	2.10	0.82
8:AH:25:LEU:HD22	8:AH:52:ILE:HD11	1.62	0.82
10:AJ:70:THR:HG1	14:AN:36:ASN:CB	1.75	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:42:THR:CG2	11:AK:58:ALA:HB1	2.09	0.82
18:B3:34:C:O2'	23:BD:49:TYR:HA	1.80	0.82
18:B3:68:U:C4'	44:BX:51:ILE:CD1	2.53	0.82
18:B3:697:G:H3'	41:BV:112:LEU:CD1	2.10	0.82
18:B3:730:G:H5"	41:BV:132:LEU:CD1	2.08	0.82
18:B3:907:A:H8	18:B3:1328:A:C1'	1.70	0.82
18:B3:1002:G:C2'	28:BI:90:ARG:HH22	1.65	0.82
18:B3:1147:C:C2'	18:B3:1148:C:H5"	2.10	0.82
18:B3:1370:G:C8	33:BN:27:ASN:OD1	2.32	0.82
18:B3:2336:G:P	29:BJ:103:PHE:HE2	2.03	0.82
18:B3:2337:G:P	29:BJ:101:PHE:HB3	2.19	0.82
18:B3:2795:C:O2'	27:BH:156:GLN:CG	2.24	0.82
19:B4:47:A:OP2	24:BE:151:GLN:CG	2.26	0.82
21:BB:103:LEU:HD12	21:BB:138:HIS:NE2	1.95	0.82
21:BB:224:ILE:CD1	21:BB:228:ALA:HB2	2.08	0.82
22:BC:49:LYS:HD2	22:BC:50:ALA:O	1.79	0.82
26:BG:127:LYS:HB2	26:BG:128:PRO:HD3	1.60	0.82
33:BN:35:ILE:HA	33:BN:38:TRP:CD1	2.15	0.82
34:BO:81:VAL:HG12	34:BO:138:LEU:CB	2.09	0.82
34:BO:81:VAL:CG1	34:BO:138:LEU:HB2	2.09	0.82
37:BR:28:ASN:HB3	37:BR:31:ALA:HB2	1.61	0.82
40:BU:35:LEU:HD23	40:BU:39:LEU:O	1.80	0.82
1:AA:318:G:C2	1:AA:1434:A:N1	2.42	0.81
1:AA:364:A:OP2	12:AL:50:LYS:HE2	1.80	0.81
1:AA:551:U:O3'	12:AL:107:PHE:HA	1.80	0.81
1:AA:1316:G:N2	17:AS:49:MET:SD	2.53	0.81
1:AA:1497:G:H2'	1:AA:1519:A:N6	1.95	0.81
3:AB:122:VAL:HG11	3:AB:132:ILE:HD11	1.60	0.81
18:B3:69:A:H5"	44:BX:52:ALA:CB	2.10	0.81
18:B3:1139:U:O4'	27:BH:62:ARG:NE	2.13	0.81
18:B3:1900:A:P	21:BB:225:SER:HA	2.19	0.81
19:B4:35:C:C2	24:BE:203:HIS:CE1	2.68	0.81
21:BB:20:ARG:HG3	21:BB:21:LEU:CD2	2.08	0.81
22:BC:221:LYS:HG2	22:BC:331:ARG:HD3	1.62	0.81
23:BD:177:LEU:HA	23:BD:205:LEU:HD11	1.62	0.81
28:BI:50:VAL:HG23	28:BI:137:SER:HB2	1.61	0.81
28:BI:101:LYS:HD2	28:BI:103:LEU:HD23	1.61	0.81
31:BL:26:VAL:HG11	31:BL:122:GLN:OE1	1.80	0.81
31:BL:168:LYS:HE2	31:BL:169:LYS:CG	2.10	0.81
32:BM:39:GLU:N	32:BM:137:LEU:HD23	1.94	0.81
35:BP:91:GLN:HA	35:BP:94:TRP:CE3	2.16	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BQ:83:ARG:HG2	36:BQ:84:TYR:H	1.42	0.81
1:AA:11:G:O2'	1:AA:525:C:O2	1.98	0.81
1:AA:67:C:N3	1:AA:70:G:C5	2.48	0.81
1:AA:293:G:H5'	1:AA:610:G:C5	2.15	0.81
1:AA:436:C:H2'	1:AA:496:A:C2'	2.10	0.81
1:AA:1405:G:N9	1:AA:1519:A:O4'	2.13	0.81
2:AT:466:THR:HG21	2:AT:516:PRO:CG	2.08	0.81
6:AE:105:ASP:HB3	6:AE:142:TYR:CE1	2.15	0.81
7:AG:110:VAL:HG21	9:AI:43:LEU:HB2	1.62	0.81
9:AI:39:GLU:O	9:AI:42:ILE:HG12	1.79	0.81
10:AJ:44:ASN:HB3	10:AJ:102:ARG:HG3	1.60	0.81
18:B3:35:U:H5"	23:BD:104:THR:CG2	2.09	0.81
18:B3:80:A:C4'	40:BU:73:VAL:CG1	2.52	0.81
18:B3:107:U:H5"	44:BX:58:ILE:C	2.01	0.81
18:B3:499:G:C4'	33:BN:19:SER:OG	2.28	0.81
18:B3:921:G:O3'	41:BV:41:ARG:HG3	1.80	0.81
18:B3:1118:A:C2	18:B3:1226:G:OP2	2.29	0.81
18:B3:1227:C:H4'	32:BM:133:LYS:HE3	1.61	0.81
18:B3:1227:C:H1'	32:BM:132:ARG:HH22	1.45	0.81
18:B3:1310:U:OP2	23:BD:180:VAL:HA	1.81	0.81
18:B3:1358:A:H3'	23:BD:92:MET:HG2	1.59	0.81
18:B3:1651:C:C5	47:B9:50:ALA:HB2	2.15	0.81
18:B3:1899:C:O4'	21:BB:223:THR:HG23	1.80	0.81
19:B4:35:C:O2	24:BE:185:PHE:HB3	1.04	0.81
21:BB:82:HIS:CG	47:B9:62:THR:O	2.32	0.81
21:BB:104:GLY:HA2	21:BB:138:HIS:HE1	1.44	0.81
23:BD:256:LYS:HG2	23:BD:259:GLN:HB3	1.62	0.81
26:BG:142:ILE:HD12	26:BG:143:GLU:N	1.95	0.81
26:BG:203:ARG:HD2	26:BG:210:LEU:HB3	1.61	0.81
28:BI:52:LEU:HG	28:BI:136:PHE:C	2.00	0.81
32:BM:26:LEU:CD2	32:BM:101:LEU:HD12	2.10	0.81
33:BN:94:LEU:HD13	33:BN:95:GLN:N	1.94	0.81
41:BV:72:LEU:CD2	41:BV:77:LEU:HD11	2.09	0.81
1:AA:190(D):U:C2	16:AQ:111:SER:N	2.46	0.81
1:AA:319:G:H1'	1:AA:1434:A:C6	2.16	0.81
1:AA:924:C:C6	1:AA:1398:A:C2	2.68	0.81
1:AA:1318:A:HO2'	17:AS:84:ILE:H	1.28	0.81
1:AA:1377:A:C5	7:AG:76:TYR:CD2	2.68	0.81
1:AA:1505:G:C8	1:AA:1506:U:H2'	2.14	0.81
3:AB:33:GLU:HB3	3:AB:34:PRO:HD3	1.62	0.81
3:AB:75:ILE:CD1	3:AB:97:ILE:HB	2.10	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:116:GLU:OE2	6:AE:133:LEU:HG	1.80	0.81
6:AE:219:ASN:H	8:AH:129:TYR:HD2	0.85	0.81
8:AH:89:THR:O	8:AH:121:SER:HB3	1.79	0.81
9:AI:58:LYS:HD2	9:AI:88:LEU:CD1	2.11	0.81
13:AM:75:ASN:O	13:AM:83:ALA:HB1	1.79	0.81
13:AM:100:THR:C	13:AM:105:VAL:HG21	2.01	0.81
18:B3:472:A:C3'	45:BY:48:TRP:HH2	1.89	0.81
18:B3:763:C:H1'	23:BD:86:GLN:OE1	1.79	0.81
18:B3:843:A:C5'	33:BN:130:ARG:HG3	2.10	0.81
18:B3:921:G:N3	41:BV:40:HIS:HB2	1.96	0.81
18:B3:1163:G:N2	30:BK:52:GLU:OE1	2.13	0.81
18:B3:1772:C:C5'	47:B9:15:VAL:CG1	2.57	0.81
18:B3:1805:G:O2'	18:B3:2875:A:C8	2.32	0.81
18:B3:1809:G:N2	18:B3:2732:U:O4'	2.13	0.81
18:B3:1812:G:O4'	18:B3:2732:U:H4'	1.80	0.81
18:B3:2038:A:OP1	37:BR:47:ASN:HB2	1.78	0.81
18:B3:2060:A:C4'	42:B0:25:TYR:CD1	2.63	0.81
18:B3:2558:G:N3	18:B3:2799:A:O2'	2.12	0.81
18:B3:2565:C:C4	27:BH:171:ASP:HB3	2.14	0.81
18:B3:2581:U:O4'	18:B3:2600:A:H2	1.60	0.81
18:B3:2779:G:HO2'	27:BH:163:GLN:HB3	1.44	0.81
19:B4:119:C:H5'	24:BE:68:THR:OG1	1.79	0.81
20:BA:196:LYS:HG3	20:BA:199:GLN:HB2	1.62	0.81
21:BB:182:GLY:HA2	21:BB:185:PHE:HD1	1.43	0.81
22:BC:176:HIS:O	22:BC:177:LEU:HD22	1.78	0.81
22:BC:184:GLY:HA3	22:BC:190:LYS:CD	2.09	0.81
22:BC:247:LYS:H	22:BC:247:LYS:HE2	1.44	0.81
23:BD:181:LEU:HD21	23:BD:185:LYS:CG	2.10	0.81
24:BE:64:ILE:CD1	24:BE:144:VAL:HG11	2.11	0.81
24:BE:107:ARG:H	24:BE:110:LEU:HB2	1.45	0.81
28:BI:60:LEU:HD13	28:BI:159:PHE:HE1	1.45	0.81
29:BJ:9:ARG:HA	29:BJ:9:ARG:CZ	2.10	0.81
31:BL:22:GLN:CA	31:BL:25:ARG:HG3	2.10	0.81
31:BL:22:GLN:HE21	31:BL:25:ARG:HG2	1.44	0.81
31:BL:69:ASN:ND2	31:BL:92:LYS:HB3	1.95	0.81
31:BL:161:ARG:HG3	31:BL:168:LYS:HZ1	1.45	0.81
32:BM:118:VAL:HG13	32:BM:119:VAL:O	1.80	0.81
32:BM:118:VAL:HG22	32:BM:119:VAL:H	1.44	0.81
33:BN:14:ALA:O	33:BN:149:VAL:HG12	1.80	0.81
34:BO:25:TYR:O	34:BO:29:LEU:HG	1.80	0.81
34:BO:42:ALA:HB3	34:BO:134:GLY:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:41:ARG:NH1	35:BP:44:VAL:HB	1.95	0.81
36:BQ:39:ILE:HD13	36:BQ:39:ILE:H	1.45	0.81
41:BV:75:ASP:HA	41:BV:78:TRP:CD1	2.15	0.81
41:BV:81:ILE:CG1	41:BV:86:ARG:HD2	2.10	0.81
43:BW:8:THR:HG22	43:BW:73:ARG:NH1	1.96	0.81
45:BY:27:HIS:HB2	45:BY:30:LYS:HG3	1.62	0.81
1:AA:59:A:H4'	1:AA:388:G:C2'	2.10	0.81
1:AA:190(D):U:O4	16:AQ:112:PRO:HG2	1.79	0.81
1:AA:436:C:C5'	1:AA:496:A:OP1	2.27	0.81
1:AA:754:C:C1'	15:AO:127:TYR:CD2	2.63	0.81
1:AA:1298:C:OP1	13:AM:57:ARG:N	2.13	0.81
1:AA:1330:U:O2'	13:AM:93:THR:CG2	2.28	0.81
3:AB:145:LEU:HD12	3:AB:159:ILE:O	1.80	0.81
6:AE:138:ILE:CB	6:AE:217:ILE:HD11	2.09	0.81
7:AG:116:THR:HG22	7:AG:190:ALA:O	1.79	0.81
13:AM:100:THR:HG23	13:AM:105:VAL:HG22	1.62	0.81
18:B3:110:C:O3'	18:B3:123:U:O4	1.99	0.81
18:B3:449:A:N6	18:B3:1349:G:C4'	2.43	0.81
18:B3:541:C:H6	42:B0:15:LYS:CG	1.67	0.81
18:B3:710:G:OP1	34:BO:43:PRO:CD	2.27	0.81
18:B3:710:G:C5'	34:BO:44:PHE:CD2	2.57	0.81
18:B3:730:G:C5'	41:BV:132:LEU:CD1	2.57	0.81
18:B3:1153:C:C4	18:B3:1155:G:N3	2.47	0.81
18:B3:1352:A:P	23:BD:108:TRP:HE1	2.04	0.81
18:B3:2134:G:N2	18:B3:2241:C:H42	1.78	0.81
18:B3:2310:G:C2'	28:BI:119:TRP:CZ2	2.64	0.81
18:B3:2671:U:O4'	22:BC:179:GLU:HB3	1.79	0.81
18:B3:2734:G:P	35:BP:79:LYS:HZ2	2.01	0.81
18:B3:2819:C:C3'	22:BC:100:SER:C	2.32	0.81
20:BA:55:LEU:CD1	20:BA:158:GLN:N	2.39	0.81
21:BB:88:TYR:HE2	21:BB:94:SER:H	1.27	0.81
22:BC:26:ALA:HA	22:BC:27:ARG:NH2	1.94	0.81
23:BD:168:LEU:O	23:BD:171:VAL:HG22	1.79	0.81
24:BE:106:ALA:HA	24:BE:110:LEU:CD1	2.09	0.81
26:BG:110:LYS:H	26:BG:118:GLY:H	1.28	0.81
27:BH:170:LYS:HG2	27:BH:171:ASP:H	1.46	0.81
28:BI:51:HIS:O	28:BI:52:LEU:HD22	1.80	0.81
32:BM:44:GLY:H	32:BM:134:TYR:HD1	1.25	0.81
33:BN:91:GLN:CA	33:BN:94:LEU:HD12	2.09	0.81
34:BO:113:LYS:NZ	34:BO:113:LYS:HA	1.93	0.81
35:BP:8:ARG:NH1	35:BP:18:LYS:HD3	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:125:LEU:HD13	39:BT:129:TYR:HB3	1.60	0.81
40:BU:86:THR:CG2	40:BU:97:ILE:HG12	2.10	0.81
43:BW:73:ARG:HA	43:BW:73:ARG:CZ	2.09	0.81
47:B9:56:CYS:CB	47:B9:60:LYS:HA	2.10	0.81
1:AA:319:G:C4	1:AA:1434:A:H2	1.46	0.81
1:AA:690:G:OP1	11:AK:23:ASN:OD1	1.98	0.81
1:AA:1068:G:H5'	1:AA:1388:C:OP1	1.79	0.81
1:AA:1300:G:H5'	13:AM:30:TYR:CG	2.14	0.81
1:AA:1406:U:C1'	1:AA:1518:A:C4'	2.55	0.81
18:B3:251:C:C1'	31:BL:139:LYS:NZ	2.40	0.81
18:B3:918:G:H2'	41:BV:44:MET:SD	2.21	0.81
18:B3:1163:G:O3'	30:BK:50:THR:C	2.08	0.81
18:B3:1788:U:H3'	18:B3:2881:C:C2'	1.83	0.81
18:B3:2837:U:N3	22:BC:334:ILE:HA	1.95	0.81
18:B3:2862:G:O5'	22:BC:364:PHE:CZ	2.33	0.81
19:B4:7:G:N7	24:BE:22:ARG:CD	2.43	0.81
22:BC:39:PRO:CG	22:BC:182:LEU:HB2	2.11	0.81
22:BC:158:ARG:HA	22:BC:182:LEU:HD13	1.62	0.81
22:BC:302:LYS:HE3	22:BC:305:THR:N	1.95	0.81
26:BG:161:LEU:CD2	31:BL:3:TYR:CE2	2.63	0.81
29:BJ:9:ARG:HA	29:BJ:9:ARG:NH1	1.96	0.81
29:BJ:74:LYS:HD3	29:BJ:74:LYS:O	1.80	0.81
29:BJ:83:LEU:HD12	29:BJ:166:TYR:CE1	2.15	0.81
30:BK:20:GLY:HA3	30:BK:54:LYS:HE2	1.63	0.81
30:BK:76:SER:O	30:BK:80:LEU:HG	1.79	0.81
30:BK:116:MET:SD	30:BK:119:LYS:HE2	2.20	0.81
31:BL:17:VAL:HA	31:BL:20:PHE:CD2	2.15	0.81
33:BN:117:GLN:HB3	33:BN:146:GLU:H	1.43	0.81
35:BP:104:LEU:O	35:BP:105:LEU:HD22	1.81	0.81
37:BR:18:PRO:HB3	37:BR:49:LEU:CD1	2.10	0.81
40:BU:14:LYS:HE3	40:BU:18:ALA:HB3	1.62	0.81
1:AA:777:A:O2'	11:AK:126:ARG:HA	1.66	0.81
1:AA:1016:A:H1'	1:AA:1216:G:N2	1.94	0.81
2:AT:145:GLN:N	2:AT:483:PHE:HE2	1.78	0.81
5:AD:83:VAL:HG22	5:AD:97:LEU:HD11	1.60	0.81
5:AD:92:LYS:CA	6:AE:174:GLY:CA	2.56	0.81
11:AK:10:SER:HA	11:AK:73:VAL:O	1.79	0.81
15:AO:77:ASN:HB3	15:AO:85:GLU:HG3	1.62	0.81
17:AS:124:THR:CG2	17:AS:126:VAL:HG22	2.11	0.81
18:B3:283:U:H3'	18:B3:284:C:C6	2.14	0.81
18:B3:433:C:H5'	31:BL:149:TRP:CE3	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:693:A:H4'	41:BV:59:TYR:OH	1.79	0.81
18:B3:967:U:H1'	28:BI:34:TYR:CE2	2.03	0.81
18:B3:1285:U:O3'	25:BF:155:ILE:HG12	1.81	0.81
18:B3:1304:U:H2'	23:BD:194:ARG:CB	2.09	0.81
18:B3:1830:C:N4	21:BB:180:LYS:HD2	1.94	0.81
18:B3:2819:C:H5'	22:BC:99:ARG:HH21	1.44	0.81
21:BB:185:PHE:O	21:BB:188:TYR:HB3	1.81	0.81
22:BC:31:PHE:HB3	22:BC:32:PRO:HD2	1.60	0.81
22:BC:89:VAL:HG23	22:BC:91:TYR:HE2	1.46	0.81
23:BD:50:ALA:HB2	23:BD:104:THR:N	1.96	0.81
27:BH:43:VAL:HG12	32:BM:127:ARG:HD3	1.63	0.81
27:BH:90:MET:SD	27:BH:182:SER:HB2	2.20	0.81
28:BI:38:LYS:CE	28:BI:41:ALA:HB3	2.10	0.81
31:BL:187:ARG:HB3	31:BL:187:ARG:CZ	2.10	0.81
35:BP:7:LYS:NZ	35:BP:8:ARG:HD2	1.95	0.81
37:BR:15:LEU:HD13	37:BR:53:SER:HB2	1.62	0.81
38:BS:52:THR:HB	38:BS:55:PHE:CB	2.10	0.81
45:BY:44:ARG:HB3	45:BY:44:ARG:NH1	1.96	0.81
47:B9:53:ILE:HD13	47:B9:54:TRP:N	1.95	0.81
1:AA:318:G:O2'	1:AA:1468:A:C5'	2.27	0.81
1:AA:860:A:O2'	8:AH:18:LYS:HD2	1.80	0.81
1:AA:1250:A:C5'	9:AI:71:GLY:N	2.43	0.81
1:AA:1318:A:C1'	17:AS:54:ALA:CB	2.56	0.81
1:AA:1319:A:OP1	17:AS:84:ILE:HB	1.81	0.81
2:AT:103:ILE:HD12	2:AT:122:THR:HG22	1.61	0.81
5:AD:100:LYS:HB3	5:AD:191:ALA:CB	2.10	0.81
18:B3:67:A:N9	39:BT:60:LYS:NZ	2.25	0.81
18:B3:658:C:H5'	23:BD:119:TYR:HH	1.44	0.81
18:B3:664:U:C4'	23:BD:114:HIS:HB2	2.09	0.81
18:B3:1675:C:H5"	39:BT:113:VAL:O	1.81	0.81
18:B3:1788:U:O2'	18:B3:2882:G:C5	2.33	0.81
18:B3:2081:A:O3'	32:BM:69:PRO:HB3	1.80	0.81
18:B3:2334:C:O2	29:BJ:114:LYS:O	1.97	0.81
18:B3:2552:C:C1'	18:B3:2553:A:H2'	2.06	0.81
18:B3:2837:U:C6	22:BC:333:ARG:HD3	2.10	0.81
19:B4:47:A:OP1	24:BE:151:GLN:HG2	1.79	0.81
19:B4:87:U:N1	25:BF:217:ARG:NH2	2.29	0.81
20:BA:63:MET:CE	20:BA:159:LEU:O	2.29	0.81
20:BA:179:LEU:HA	20:BA:182:GLN:NE2	1.94	0.81
21:BB:47:ILE:HD13	21:BB:47:ILE:H	1.46	0.81
21:BB:179:LEU:HD11	47:B9:22:ARG:HH11	1.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:195:TRP:CH2	21:BB:197:LYS:HB3	2.16	0.81
22:BC:331:ARG:C	22:BC:332:LYS:HE2	2.01	0.81
24:BE:16:PHE:CA	36:BQ:19:PHE:HZ	1.69	0.81
26:BG:217:ILE:HD13	26:BG:218:ASP:N	1.96	0.81
27:BH:27:VAL:HG11	27:BH:82:VAL:HB	1.63	0.81
27:BH:162:GLN:CD	27:BH:181:VAL:HG12	2.01	0.81
28:BI:24:ARG:HG2	28:BI:25:ALA:H	1.45	0.81
31:BL:50:LEU:CD2	31:BL:117:SER:HA	2.10	0.81
33:BN:67:GLY:HA2	33:BN:79:LYS:CB	2.09	0.81
33:BN:67:GLY:CA	33:BN:79:LYS:HB3	2.09	0.81
37:BR:95:PHE:CG	38:BS:21:PHE:HD1	1.95	0.81
47:B9:20:SER:C	47:B9:22:ARG:HD3	2.01	0.81
1:AA:121:C:C5	1:AA:235:C:C5	2.68	0.81
1:AA:318:G:C1’	1:AA:1468:A:C4’	2.58	0.81
1:AA:988:G:C6	1:AA:1015:A:C4	2.68	0.81
1:AA:1220:G:OP1	17:AS:80:MET:HE2	1.78	0.81
1:AA:1300:G:C4’	13:AM:30:TYR:CE1	2.45	0.81
1:AA:1302:U:C5’	13:AM:54:LEU:HD21	2.09	0.81
3:AB:88:PHE:HE1	3:AB:174:TYR:HB3	1.46	0.81
3:AB:92:THR:HG22	3:AB:181:LEU:CD2	2.11	0.81
4:AC:11:VAL:HB	14:AN:32:LYS:O	1.80	0.81
4:AC:159:SER:HA	4:AC:165:ASP:OD1	1.81	0.81
5:AD:55:ALA:CB	5:AD:59:LEU:HD23	2.11	0.81
5:AD:86:LEU:CD1	5:AD:96:VAL:HG22	2.10	0.81
7:AG:83:LYS:HD3	7:AG:83:LYS:H	1.44	0.81
9:AI:100:SER:HA	9:AI:116:LEU:HB2	1.63	0.81
10:AJ:70:THR:CA	14:AN:42:PHE:H	1.92	0.81
14:AN:20:CYS:HB2	14:AN:29:LEU:CG	2.10	0.81
18:B3:112:G:O2’	18:B3:114:A:H8	1.44	0.81
18:B3:795:G:N2	18:B3:817:G:H2’	1.94	0.81
18:B3:920:C:O5’	41:BV:39:HIS:C	2.07	0.81
18:B3:1106:A:H8	18:B3:1106:A:H5’	1.46	0.81
18:B3:1180:C:O2	30:BK:106:LEU:O	1.98	0.81
18:B3:1529:G:C4’	21:BB:69:ARG:NH1	2.43	0.81
18:B3:1705:C:C5’	35:BP:62:THR:OG1	2.29	0.81
18:B3:1731:C:OP1	18:B3:2839:C:O2	1.99	0.81
18:B3:1787:C:P	35:BP:73:ARG:NH2	2.54	0.81
18:B3:1812:G:H4’	18:B3:2732:U:O2’	1.81	0.81
18:B3:2135:A:H2	18:B3:2239:C:C4	1.94	0.81
18:B3:2578:G:C2	18:B3:2800:A:C2’	2.63	0.81
19:B4:47:A:C3’	24:BE:160:PHE:HE2	1.94	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:171:GLY:HA3	47:B9:67:ALA:CB	2.11	0.81
21:BB:173:ARG:CZ	21:BB:174:VAL:HG13	2.11	0.81
23:BD:181:LEU:HB2	23:BD:202:ARG:HA	1.63	0.81
23:BD:196:ARG:HG3	23:BD:198:TRP:CE2	2.16	0.81
24:BE:43:LYS:O	24:BE:117:GLU:HA	1.80	0.81
24:BE:148:ILE:CG2	24:BE:159:VAL:HG11	2.10	0.81
27:BH:34:LEU:HD21	27:BH:149:ASN:CB	2.08	0.81
29:BJ:74:LYS:HA	29:BJ:77:GLU:OE2	1.79	0.81
30:BK:19:GLY:HA2	30:BK:50:THR:HG21	1.62	0.81
32:BM:123:LEU:HD22	32:BM:124:ARG:N	1.95	0.81
35:BP:22:TRP:HE3	35:BP:51:LYS:HB2	1.44	0.81
36:BQ:72:VAL:HG13	36:BQ:74:VAL:HG23	1.62	0.81
37:BR:78:VAL:HG21	37:BR:81:GLN:HE22	1.45	0.81
40:BU:35:LEU:HD21	40:BU:45:ILE:CG2	2.11	0.81
41:BV:74:LEU:HG	41:BV:117:ILE:CG1	2.11	0.81
1:AA:988:G:C1'	1:AA:1014:A:C4'	2.55	0.81
1:AA:989:C:C6	1:AA:1016:A:C4	2.69	0.81
1:AA:1303:C:N4	13:AM:40:ARG:CZ	2.44	0.81
3:AB:48:ASN:ND2	3:AB:51:LYS:HD2	1.95	0.81
9:AI:18:VAL:HG22	9:AI:67:ARG:HB3	1.62	0.81
10:AJ:73:GLY:N	14:AN:38:CYS:SG	2.42	0.81
11:AK:41:VAL:HG23	11:AK:44:GLY:H	1.46	0.81
15:AO:65:ILE:CG2	15:AO:69:LYS:HB3	2.11	0.81
15:AO:82:GLU:CB	15:AO:85:GLU:HB2	2.10	0.81
18:B3:721:A:P	34:BO:71:LEU:HB3	2.20	0.81
18:B3:782:G:C3'	21:BB:189:ARG:NH1	2.43	0.81
18:B3:882:A:H5'	45:BY:2:LYS:HA	1.62	0.81
18:B3:898:G:H5"	41:BV:25:ARG:CD	2.11	0.81
18:B3:1115:U:H4'	18:B3:1223:G:N2	1.96	0.81
18:B3:1181:A:H2	30:BK:105:GLN:HB3	1.00	0.81
18:B3:1676:G:C8	39:BT:113:VAL:HG22	2.16	0.81
18:B3:2050:G:H4'	33:BN:84:ALA:HB2	0.83	0.81
18:B3:2081:A:H1'	32:BM:69:PRO:CG	2.08	0.81
18:B3:2337:G:N7	29:BJ:127:TYR:HE1	1.62	0.81
18:B3:2370:A:N1	36:BQ:49:GLN:NE2	2.29	0.81
18:B3:2408:A:O3'	46:BZ:18:LYS:HD2	1.79	0.81
18:B3:2489:G:H2'	18:B3:2490:A:C5	2.15	0.81
18:B3:2737:C:C5	35:BP:61:ARG:CD	2.63	0.81
19:B4:97:U:O2'	25:BF:223:ILE:O	1.99	0.81
20:BA:16:LEU:HD13	20:BA:207:LYS:HA	1.63	0.81
21:BB:134:ILE:CD1	21:BB:136:ILE:HG12	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:42:LEU:CD2	22:BC:202:VAL:HG21	2.10	0.81
22:BC:112:GLU:HG2	22:BC:173:LYS:O	1.80	0.81
23:BD:144:ILE:CG2	23:BD:145:PRO:HD3	2.11	0.81
24:BE:50:ARG:O	24:BE:64:ILE:HD12	1.81	0.81
27:BH:23:ARG:NH1	27:BH:39:LYS:HG2	1.96	0.81
31:BL:21:LEU:HD12	31:BL:22:GLN:N	1.96	0.81
31:BL:69:ASN:OD1	31:BL:92:LYS:HD2	1.81	0.81
33:BN:17:ARG:CZ	33:BN:93:LEU:HA	2.11	0.81
33:BN:69:THR:HG21	33:BN:74:GLU:HB2	1.61	0.81
35:BP:8:ARG:HA	35:BP:8:ARG:NH1	1.96	0.81
37:BR:67:PRO:CG	37:BR:69:LEU:HD23	2.11	0.81
1:AA:33:A:N3	12:AL:47:SER:HB3	1.94	0.81
1:AA:560:U:C2	1:AA:563:A:C4'	2.64	0.81
1:AA:938:A:H2	7:AG:76:TYR:HD1	1.24	0.81
1:AA:1131:G:H1	1:AA:1143:G:H21	1.27	0.81
2:AT:110:ASP:OD2	18:B3:2697:A:C2	2.26	0.81
2:AT:111:PHE:CE2	2:AT:483:PHE:CE2	2.69	0.81
3:AB:56:LEU:HD21	3:AB:159:ILE:HG23	1.63	0.81
3:AB:154:PHE:CZ	8:AH:19:THR:O	2.34	0.81
4:AC:12:ALA:O	4:AC:15:VAL:HG12	1.81	0.81
7:AG:208:TYR:CE2	7:AG:212:LYS:HE3	2.15	0.81
9:AI:52:LEU:HG	9:AI:57:ASP:OD2	1.81	0.81
9:AI:98:GLU:HB3	9:AI:103:GLU:HA	1.63	0.81
18:B3:1228:C:H5"	32:BM:47:PHE:CE1	2.16	0.81
18:B3:1359:U:H4'	23:BD:91:ASN:CG	1.99	0.81
18:B3:1795:G:O6	35:BP:96:ARG:NH1	2.13	0.81
18:B3:1816:C:N4	18:B3:2733:U:O2	2.13	0.81
18:B3:1874:U:N3	21:BB:124:ALA:HB1	1.96	0.81
18:B3:2050:G:O5'	33:BN:82:TRP:CE3	2.25	0.81
18:B3:2135:A:N3	18:B3:2240:U:O4	2.14	0.81
18:B3:2369:A:OP1	24:BE:31:TYR:CE2	2.30	0.81
21:BB:116:GLU:HB2	21:BB:121:ASP:OD1	1.81	0.81
22:BC:46:LEU:HD23	22:BC:336:THR:C	2.02	0.81
22:BC:332:LYS:HE3	22:BC:333:ARG:NH2	1.96	0.81
24:BE:75:LEU:CD1	24:BE:113:LEU:HD21	2.10	0.81
26:BG:115:VAL:HG11	26:BG:213:LEU:CD1	2.09	0.81
26:BG:130:ALA:HB1	26:BG:201:GLU:HG2	1.61	0.81
27:BH:18:VAL:HG11	27:BH:48:VAL:HG22	1.63	0.81
27:BH:59:ASN:ND2	27:BH:64:HIS:HB3	1.95	0.81
28:BI:146:ASP:HB2	28:BI:149:VAL:HG23	1.62	0.81
30:BK:94:LYS:CD	30:BK:138:SER:HA	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:13:LYS:HA	31:BL:18:LEU:CD2	2.07	0.81
33:BN:101:ALA:HB1	33:BN:106:LEU:CD2	2.12	0.81
34:BO:62:VAL:HG21	34:BO:87:VAL:HA	1.63	0.81
1:AA:1116:C:C2'	1:AA:1117:G:H5"	2.11	0.80
1:AA:1240:U:C4'	7:AG:188:THR:HG22	2.11	0.80
2:AT:749:LYS:HG3	18:B3:2508:C:C6	2.15	0.80
9:AI:99:GLN:CD	9:AI:113:ARG:HB2	2.01	0.80
12:AL:127:VAL:HG11	12:AL:145:SER:O	1.81	0.80
13:AM:85:PHE:HA	13:AM:100:THR:CB	2.11	0.80
13:AM:122:HIS:CG	17:AS:118:GLU:HB3	2.15	0.80
18:B3:72:C:H5"	44:BX:49:LYS:HZ1	1.44	0.80
18:B3:1180:C:O2	30:BK:110:ILE:HG13	1.81	0.80
18:B3:1306:U:H5	23:BD:194:ARG:HH22	1.18	0.80
18:B3:1446:U:OP1	39:BT:70:THR:HA	1.81	0.80
18:B3:2552:C:O2'	18:B3:2553:A:C3'	2.29	0.80
19:B4:47:A:H5'	24:BE:154:THR:N	1.96	0.80
20:BA:4:ILE:HG23	20:BA:5:THR:H	1.43	0.80
21:BB:17:SER:CB	21:BB:192:ARG:HG3	2.05	0.80
22:BC:358:ILE:HG22	38:BS:15:PRO:HG2	1.61	0.80
23:BD:75:ARG:HG2	23:BD:81:THR:H	1.46	0.80
24:BE:41:LYS:HG3	24:BE:145:PHE:CD1	2.16	0.80
27:BH:40:HIS:HE1	32:BM:127:ARG:HH11	1.26	0.80
27:BH:125:ASN:HD21	27:BH:164:ILE:HG12	1.44	0.80
28:BI:32:ARG:HG2	28:BI:33:ILE:HD13	1.63	0.80
28:BI:38:LYS:HE2	28:BI:41:ALA:CB	2.11	0.80
31:BL:40:ARG:HB2	31:BL:40:ARG:CZ	2.09	0.80
31:BL:66:ARG:O	31:BL:126:TYR:HA	1.79	0.80
31:BL:187:ARG:HH11	31:BL:188:LYS:H	1.28	0.80
34:BO:93:ILE:HD13	34:BO:116:LYS:HZ3	1.45	0.80
35:BP:87:ARG:HB2	35:BP:87:ARG:CZ	2.08	0.80
36:BQ:87:LYS:HD2	36:BQ:87:LYS:O	1.80	0.80
40:BU:17:LYS:HG3	40:BU:18:ALA:H	1.45	0.80
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.46	0.80
2:AT:91:GLN:NE2	2:AT:344:SER:H	1.78	0.80
2:AT:140:GLU:HB3	2:AT:481:MET:CE	1.95	0.80
2:AT:536:LEU:HB2	18:B3:2698:G:HO2'	1.45	0.80
4:AC:140:LYS:H	4:AC:146:ALA:HA	1.45	0.80
9:AI:8:THR:HB	9:AI:87:GLY:N	1.97	0.80
9:AI:51:LEU:HD11	9:AI:84:ILE:CD1	2.10	0.80
17:AS:80:MET:SD	17:AS:83:MET:HB2	2.20	0.80
18:B3:67:A:H5"	44:BX:55:LEU:HD23	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:111:C:C1'	18:B3:119:A:H61	1.92	0.80
18:B3:676:C:H2'	23:BD:231:SER:C	1.99	0.80
18:B3:944:G:C1'	25:BF:100:LYS:NZ	2.43	0.80
18:B3:1744:G:HO2'	37:BR:21:ALA:HA	1.46	0.80
18:B3:2346:C:O2'	29:BJ:66:VAL:N	1.92	0.80
18:B3:2368:A:H3'	24:BE:31:TYR:CD2	2.16	0.80
19:B4:30:C:O2	24:BE:57:ASN:ND2	2.13	0.80
19:B4:99:U:C5'	25:BF:222:PHE:CE1	2.63	0.80
21:BB:186:HIS:NE2	21:BB:187:LYS:HG2	1.95	0.80
27:BH:10:ILE:HD12	27:BH:52:LEU:HD23	1.60	0.80
27:BH:12:VAL:CG1	27:BH:79:ILE:HD13	2.11	0.80
27:BH:41:ILE:C	32:BM:126:LEU:HB3	2.01	0.80
28:BI:124:GLY:C	28:BI:125:LEU:HD12	2.01	0.80
30:BK:103:ASN:ND2	30:BK:142:ARG:HB3	1.97	0.80
31:BL:5:TYR:CB	31:BL:8:GLU:HG2	2.11	0.80
33:BN:13:SER:HB2	33:BN:149:VAL:CG1	2.10	0.80
35:BP:41:ARG:HD3	35:BP:44:VAL:CG1	2.10	0.80
40:BU:27:ARG:NH2	40:BU:28:ARG:HB3	1.95	0.80
40:BU:30:LEU:O	40:BU:31:LEU:HD23	1.81	0.80
41:BV:80:LEU:CD2	41:BV:81:ILE:HG12	2.11	0.80
41:BV:90:LEU:CD1	41:BV:96:GLU:HG3	2.12	0.80
46:BZ:8:LYS:HG2	46:BZ:9:THR:H	1.46	0.80
1:AA:1075:C:C5'	3:AB:102:THR:CA	2.59	0.80
1:AA:1224:G:O2'	17:AS:123:TYR:CE1	2.00	0.80
1:AA:1226:C:O2	17:AS:126:VAL:O	1.98	0.80
1:AA:1350:A:N3	7:AG:103:ASN:HA	1.96	0.80
7:AG:84:ALA:HB3	7:AG:89:ILE:CD1	2.11	0.80
8:AH:35:LYS:HG3	8:AH:109:ILE:CG1	2.11	0.80
9:AI:51:LEU:HD22	9:AI:58:LYS:CD	2.12	0.80
10:AJ:49:ASN:HB3	10:AJ:99:ILE:HG12	1.62	0.80
12:AL:100:ASP:HB3	12:AL:132:LEU:CB	2.11	0.80
17:AS:90:ILE:HD11	17:AS:112:LEU:HD21	1.64	0.80
18:B3:27:U:H3'	18:B3:1319:G:C4'	1.98	0.80
18:B3:80:A:H5'	40:BU:74:TYR:OH	1.80	0.80
18:B3:948:G:N2	36:BQ:100:LYS:HD3	1.97	0.80
18:B3:1067:A:C5'	25:BF:96:PRO:HG3	2.08	0.80
18:B3:1285:U:H5'	25:BF:155:ILE:HD13	1.59	0.80
18:B3:1343:C:O2	23:BD:188:ALA:CB	2.28	0.80
18:B3:1676:G:H4'	39:BT:115:PRO:HG3	1.62	0.80
18:B3:2738:G:OP1	35:BP:60:SER:OG	2.00	0.80
18:B3:2830:U:C4	22:BC:125:LYS:NZ	2.50	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2853:U:O3'	22:BC:170:LEU:HD11	1.80	0.80
19:B4:6:C:OP2	24:BE:27:LYS:HB3	1.82	0.80
21:BB:27:LYS:HA	21:BB:122:ARG:CD	2.10	0.80
22:BC:20:ARG:HD3	22:BC:268:GLN:HG3	1.63	0.80
22:BC:69:ARG:HD3	37:BR:89:ASP:HB2	0.82	0.80
23:BD:68:ARG:NH1	23:BD:68:ARG:HA	1.96	0.80
26:BG:152:ILE:HB	26:BG:176:TYR:HE2	1.47	0.80
32:BM:13:HIS:HE1	32:BM:118:VAL:HG12	1.46	0.80
33:BN:49:GLN:NE2	33:BN:54:GLN:HG2	1.94	0.80
34:BO:70:ALA:HB3	34:BO:74:GLU:O	1.81	0.80
34:BO:77:ALA:N	34:BO:79:LYS:HE3	1.97	0.80
34:BO:81:VAL:C	34:BO:101:VAL:HG11	2.02	0.80
35:BP:2:ASN:OD1	35:BP:3:LEU:HG	1.82	0.80
35:BP:41:ARG:HA	35:BP:44:VAL:CG1	2.10	0.80
40:BU:70:ILE:CD1	40:BU:80:VAL:HG21	2.11	0.80
42:B0:105:ARG:HA	42:B0:105:ARG:NE	1.95	0.80
43:BW:28:ALA:HB1	43:BW:59:TRP:CD1	2.16	0.80
43:BW:53:GLU:H	43:BW:55:ASN:HD22	1.26	0.80
47:B9:36:TYR:CB	47:B9:46:VAL:HG11	2.10	0.80
5:AD:175:ARG:HG2	5:AD:191:ALA:CA	2.11	0.80
10:AJ:73:GLY:N	14:AN:38:CYS:HA	1.96	0.80
12:AL:96:VAL:HG22	12:AL:133:LEU:CD2	2.11	0.80
13:AM:28:ILE:HG13	13:AM:32:LEU:CD1	2.11	0.80
13:AM:126:ARG:HH12	17:AS:121:ILE:CG1	1.92	0.80
18:B3:53:C:C5'	18:B3:121:U:C3'	2.48	0.80
18:B3:123:U:OP1	39:BT:87:MET:CB	2.15	0.80
18:B3:449:A:H5"	18:B3:1306:U:O4'	1.79	0.80
18:B3:817:G:H4'	18:B3:818:A:OP1	1.80	0.80
18:B3:819:A:H4'	47:B9:13:TYR:OH	1.81	0.80
18:B3:1133:A:O4'	18:B3:2521:A:H5'	1.80	0.80
18:B3:1347:U:O2'	23:BD:240:GLY:C	2.19	0.80
18:B3:1674:C:O5'	39:BT:111:THR:CG2	2.24	0.80
18:B3:2136:G:C2	18:B3:2238:A:C2	2.63	0.80
18:B3:2678:A:O2'	22:BC:13:LEU:CB	2.25	0.80
18:B3:2806:C:H5"	22:BC:343:THR:OG1	1.82	0.80
22:BC:236:LYS:HA	22:BC:246:ARG:CG	2.10	0.80
23:BD:133:LEU:HD12	23:BD:137:ARG:HH21	1.46	0.80
24:BE:63:GLN:HG2	24:BE:64:ILE:H	1.45	0.80
25:BF:209:PRO:CG	25:BF:242:MET:HG3	2.11	0.80
27:BH:25:VAL:HG12	27:BH:36:LYS:H	1.45	0.80
28:BI:167:LEU:HD13	28:BI:168:SER:N	1.97	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:42:THR:HG23	31:BL:43:ARG:CD	2.08	0.80
33:BN:44:GLN:HA	33:BN:47:LEU:HD23	1.60	0.80
35:BP:30:GLU:O	35:BP:31:ILE:HG13	1.81	0.80
36:BQ:40:VAL:HG13	36:BQ:97:LYS:CA	2.04	0.80
42:B0:73:THR:HG22	42:B0:93:ALA:HB3	1.62	0.80
1:AA:124:G:H5'	1:AA:289:G:N3	1.96	0.80
1:AA:924:C:O2'	1:AA:1399:C:OP2	1.99	0.80
1:AA:1298:C:H5'	13:AM:55:HIS:O	1.81	0.80
1:AA:1309:G:P	13:AM:127:HIS:CE1	2.74	0.80
1:AA:1377:A:C6	7:AG:76:TYR:CD2	2.69	0.80
2:AT:138:GLN:HB2	18:B3:2698:G:H5'	1.63	0.80
9:AI:98:GLU:H	9:AI:103:GLU:CA	1.94	0.80
11:AK:29:VAL:HG23	11:AK:66:VAL:CG1	2.10	0.80
13:AM:84:TRP:O	13:AM:100:THR:HA	1.80	0.80
15:AO:83:ILE:HB	15:AO:84:PRO:HD3	1.63	0.80
18:B3:72:C:H4'	44:BX:49:LYS:HZ3	1.47	0.80
18:B3:797:A:H2'	18:B3:798:G:H1'	1.64	0.80
18:B3:843:A:C4'	33:BN:130:ARG:HG3	2.12	0.80
18:B3:924:G:O6	41:BV:41:ARG:HD2	1.81	0.80
18:B3:1310:U:OP2	23:BD:180:VAL:CA	2.30	0.80
18:B3:1794:G:P	35:BP:97:ARG:HD3	2.22	0.80
18:B3:2737:C:H6	35:BP:61:ARG:H	1.28	0.80
19:B4:50:G:H3'	24:BE:92:LEU:C	1.79	0.80
21:BB:171:GLY:CA	47:B9:67:ALA:HB3	2.11	0.80
21:BB:179:LEU:CD2	47:B9:20:SER:CB	2.27	0.80
22:BC:217:ILE:HG22	22:BC:275:THR:CB	2.12	0.80
23:BD:7:VAL:HG23	23:BD:151:VAL:O	1.82	0.80
24:BE:75:LEU:CD1	24:BE:113:LEU:HD11	2.10	0.80
24:BE:110:LEU:CA	24:BE:115:LEU:HG	2.11	0.80
27:BH:62:ARG:CB	32:BM:129:LYS:CE	2.24	0.80
29:BJ:79:LEU:HD23	29:BJ:126:PHE:CZ	2.15	0.80
29:BJ:165:LYS:HD2	29:BJ:165:LYS:H	1.46	0.80
35:BP:102:ARG:HB3	35:BP:102:ARG:NH1	1.96	0.80
37:BR:37:ILE:HG22	37:BR:59:MET:O	1.81	0.80
37:BR:80:ARG:HA	37:BR:80:ARG:CZ	2.12	0.80
37:BR:80:ARG:HH22	37:BR:85:TRP:HE1	1.29	0.80
39:BT:111:THR:HG22	39:BT:112:LEU:H	1.45	0.80
40:BU:48:LEU:CD1	40:BU:109:LEU:HD12	2.10	0.80
40:BU:86:THR:HG21	40:BU:97:ILE:CG2	2.12	0.80
42:B0:36:LYS:HA	42:B0:36:LYS:HE2	1.62	0.80
45:BY:9:LYS:HE2	45:BY:10:ARG:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:22:HIS:CG	46:BZ:73:CYS:HA	2.16	0.80
1:AA:359:U:H5"	2:AT:391:LYS:C	2.01	0.80
1:AA:518:C:O2'	12:AL:66:SER:HB3	1.82	0.80
1:AA:633:G:C3'	16:AQ:94:PRO:HA	2.10	0.80
1:AA:924:C:HO2'	1:AA:1399:C:P	2.03	0.80
5:AD:86:LEU:HD12	5:AD:96:VAL:CG2	2.12	0.80
6:AE:214:PHE:O	6:AE:217:ILE:HG22	1.81	0.80
8:AH:26:ILE:HG22	8:AH:60:ILE:O	1.81	0.80
9:AI:33:SER:HB3	9:AI:37:LEU:HD23	1.63	0.80
18:B3:92:G:H8	44:BX:41:LEU:HB3	1.44	0.80
18:B3:111:C:H5'	18:B3:122:C:H42	1.46	0.80
18:B3:343:C:C5'	40:BU:34:PRO:HG3	2.05	0.80
18:B3:449:A:H61	18:B3:1349:G:C3'	1.92	0.80
18:B3:552:A:C5'	42:B0:118:LYS:HE3	2.12	0.80
18:B3:882:A:C5'	45:BY:2:LYS:CA	2.56	0.80
18:B3:921:G:C5'	41:BV:42:ILE:HG13	2.11	0.80
18:B3:2709:G:C4'	37:BR:9:THR:N	1.78	0.80
18:B3:2718:C:OP2	22:BC:331:ARG:NH2	2.13	0.80
19:B4:86:G:O3'	25:BF:219:PHE:CZ	2.30	0.80
21:BB:177:PRO:HB2	47:B9:22:ARG:HH11	1.44	0.80
23:BD:35:HIS:HA	23:BD:38:PHE:HE1	1.46	0.80
23:BD:177:LEU:HA	23:BD:205:LEU:CD1	2.12	0.80
23:BD:215:VAL:HG21	23:BD:218:LEU:HD23	1.62	0.80
24:BE:75:LEU:HD12	24:BE:113:LEU:CD2	2.12	0.80
24:BE:163:LEU:HD11	24:BE:175:HIS:HB3	1.64	0.80
28:BI:60:LEU:HD13	28:BI:159:PHE:CE1	2.17	0.80
33:BN:147:LEU:HG	33:BN:148:VAL:H	1.43	0.80
34:BO:123:THR:HG23	34:BO:126:GLN:H	1.46	0.80
42:B0:95:GLU:HG3	42:B0:120:THR:CG2	2.10	0.80
1:AA:35:G:H4'	12:AL:128:SER:HB2	1.64	0.80
1:AA:190(E):U:H5"	16:AQ:130:ILE:HG12	1.61	0.80
3:AB:146:THR:HG21	3:AB:150:SER:HB2	1.61	0.80
5:AD:91:LYS:HA	6:AE:173:ARG:C	2.02	0.80
5:AD:101:VAL:HB	5:AD:191:ALA:H	1.46	0.80
7:AG:139:THR:HG21	7:AG:174:LEU:CD2	2.12	0.80
9:AI:47:VAL:CG2	9:AI:77:VAL:HG13	2.12	0.80
9:AI:88:LEU:HD23	9:AI:104:LEU:HD22	1.62	0.80
10:AJ:49:ASN:HB3	10:AJ:99:ILE:CG1	2.12	0.80
10:AJ:78:THR:HG23	14:AN:39:ARG:HD3	1.61	0.80
10:AJ:84:MET:HA	10:AJ:84:MET:CE	2.12	0.80
13:AM:91:ASP:CA	13:AM:109:LEU:C	2.41	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:55:GLY:CA	17:AS:83:MET:HG3	2.11	0.80
18:B3:265:U:H5"	31:BL:54:ALA:O	1.81	0.80
18:B3:539:G:N1	42:B0:50:ILE:HD13	1.95	0.80
18:B3:1002:G:O2'	28:BI:90:ARG:NH2	0.65	0.80
18:B3:1343:C:OP1	23:BD:192:LYS:CG	2.30	0.80
18:B3:1677:U:P	39:BT:115:PRO:CD	2.65	0.80
18:B3:1787:C:O2	18:B3:2883:A:H8	1.58	0.80
18:B3:1872:C:C2	21:BB:22:ARG:HG3	2.16	0.80
18:B3:2050:G:H8	33:BN:82:TRP:HE3	0.82	0.80
18:B3:2050:G:C8	33:BN:82:TRP:HE3	1.62	0.80
18:B3:2283:G:C6	28:BI:105:CYS:HA	2.11	0.80
18:B3:2328:U:H5"	24:BE:153:THR:HG1	1.46	0.80
18:B3:2565:C:N4	27:BH:171:ASP:OD2	2.14	0.80
18:B3:2659:U:O3'	33:BN:71:GLN:NE2	2.15	0.80
20:BA:54:LYS:CG	20:BA:156:LYS:HD2	2.10	0.80
22:BC:331:ARG:HB2	22:BC:332:LYS:NZ	1.95	0.80
22:BC:358:ILE:H	38:BS:15:PRO:CG	1.95	0.80
27:BH:75:VAL:HA	27:BH:78:MET:CG	2.11	0.80
27:BH:75:VAL:HB	27:BH:78:MET:CE	2.12	0.80
28:BI:89:VAL:HA	28:BI:136:PHE:HB3	1.64	0.80
28:BI:98:ARG:HH11	28:BI:98:ARG:H	1.27	0.80
37:BR:28:ASN:ND2	37:BR:102:ILE:HG21	1.97	0.80
41:BV:98:ALA:HA	41:BV:125:LYS:HE2	1.64	0.80
46:BZ:34:LEU:HG	46:BZ:39:LYS:HB3	1.63	0.80
1:AA:67:C:C2	1:AA:70:G:C8	2.68	0.80
1:AA:403:C:O2'	5:AD:127:VAL:HG12	1.82	0.80
1:AA:728:A:N6	15:AO:108:LYS:HZ3	1.78	0.80
1:AA:1222:G:N3	17:AS:99:GLY:O	2.14	0.80
1:AA:1302:U:C1'	13:AM:54:LEU:HD21	2.12	0.80
1:AA:1321:C:H5'	17:AS:118:GLU:CA	2.11	0.80
1:AA:1418:A:H2	18:B3:1989:G:N3	1.79	0.80
1:AA:1493:A:H2'	1:AA:1494:G:C5'	2.10	0.80
2:AT:749:LYS:HG2	18:B3:2508:C:H6	1.47	0.80
2:AT:757:GLU:HB3	18:B3:1171:A:C2'	2.11	0.80
8:AH:24:VAL:HG23	8:AH:64:LEU:CD1	2.11	0.80
8:AH:25:LEU:HD22	8:AH:52:ILE:CD1	2.12	0.80
10:AJ:71:PRO:HG2	14:AN:36:ASN:HB2	1.50	0.80
18:B3:93:C:H5'	44:BX:42:PRO:CA	2.11	0.80
18:B3:745:G:C6	34:BO:90:ASP:O	2.34	0.80
18:B3:771:G:OP1	31:BL:76:LYS:HD2	1.81	0.80
18:B3:968:G:HO2'	28:BI:39:LYS:HG3	0.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1206:C:O2'	18:B3:1207:A:O4'	1.99	0.80
18:B3:1310:U:OP2	23:BD:203:GLY:HA3	1.82	0.80
18:B3:1361:C:C5	23:BD:89:PHE:HA	2.16	0.80
18:B3:1597:A:H4'	35:BP:95:ILE:HG21	1.63	0.80
18:B3:1882:C:OP2	21:BB:199:ARG:O	2.00	0.80
18:B3:2081:A:C3'	32:BM:69:PRO:HB3	2.12	0.80
18:B3:2382:A:C4	46:BZ:10:TYR:HE2	1.98	0.80
18:B3:2668:G:O2'	22:BC:129:PHE:O	2.00	0.80
19:B4:48:C:H3'	24:BE:158:ARG:HG3	1.55	0.80
19:B4:119:C:C1'	24:BE:73:VAL:N	2.43	0.80
21:BB:87:ILE:HG13	21:BB:98:GLY:O	1.82	0.80
21:BB:191:LYS:HG3	21:BB:193:ASN:ND2	1.96	0.80
22:BC:145:ARG:HH12	22:BC:148:ALA:HB3	1.47	0.80
22:BC:214:ILE:HG22	22:BC:215:ASP:O	1.81	0.80
22:BC:287:GLY:HA3	22:BC:317:LYS:O	1.81	0.80
25:BF:169:GLU:HG2	25:BF:175:TYR:HB3	1.64	0.80
25:BF:209:PRO:HD2	25:BF:242:MET:HG3	1.64	0.80
26:BG:151:LEU:HG	26:BG:185:LEU:HD22	1.62	0.80
26:BG:161:LEU:HD21	31:BL:3:TYR:CE2	2.17	0.80
33:BN:117:GLN:HB3	33:BN:146:GLU:O	1.82	0.80
35:BP:28:THR:O	35:BP:32:ALA:HB2	1.82	0.80
40:BU:14:LYS:HA	40:BU:17:LYS:CG	2.12	0.80
40:BU:100:HIS:NE2	40:BU:104:LEU:HD13	1.97	0.80
44:BX:21:LEU:HD23	44:BX:22:VAL:N	1.97	0.80
46:BZ:9:THR:C	46:BZ:19:HIS:HB3	2.02	0.80
1:AA:25:C:C3'	12:AL:109:ARG:HD2	2.12	0.80
1:AA:362:G:O2'	12:AL:78:LYS:HD2	1.81	0.80
1:AA:860:A:O2'	8:AH:18:LYS:CD	2.29	0.80
1:AA:1118:C:C4'	9:AI:118:ALA:HB3	2.11	0.80
1:AA:1219:U:C4'	17:AS:59:LYS:N	2.28	0.80
3:AB:22:HIS:CE1	3:AB:171:LEU:HD13	2.16	0.80
5:AD:76:LEU:O	5:AD:80:LEU:HG	1.82	0.80
5:AD:126:ARG:O	5:AD:129:ILE:HG22	1.82	0.80
6:AE:156:LYS:HG3	6:AE:168:LEU:O	1.81	0.80
18:B3:343:C:C5'	40:BU:34:PRO:CG	2.59	0.80
18:B3:697:G:C3'	41:BV:112:LEU:CD1	2.59	0.80
18:B3:764:C:O4'	23:BD:86:GLN:CG	2.30	0.80
18:B3:882:A:H5'	45:BY:2:LYS:CA	2.12	0.80
18:B3:1164:U:P	30:BK:51:LYS:N	2.54	0.80
18:B3:1229:C:H4'	18:B3:2500:C:O3'	1.82	0.80
18:B3:1732:A:N1	18:B3:2840:A:C5	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1785:G:H1	18:B3:2884:G:C5'	1.94	0.80
18:B3:2165:G:HO2'	20:BA:33:GLU:CB	1.71	0.80
18:B3:2283:G:C4'	28:BI:114:GLY:HA2	2.08	0.80
18:B3:2316:G:OP1	18:B3:2316:G:H4'	1.81	0.80
18:B3:2319:C:OP2	46:BZ:1:VAL:HG23	1.81	0.80
18:B3:2737:C:C5	35:BP:61:ARG:HG2	2.16	0.80
18:B3:2737:C:C6	35:BP:61:ARG:CG	2.64	0.80
20:BA:50:SER:HB3	20:BA:150:ASP:OD1	1.82	0.80
20:BA:124:LEU:HB3	20:BA:128:LEU:HD13	1.64	0.80
27:BH:54:LYS:HD3	27:BH:72:LYS:CD	2.10	0.80
28:BI:88:ARG:O	28:BI:136:PHE:HB2	1.81	0.80
28:BI:128:ARG:HB2	28:BI:128:ARG:NH1	1.96	0.80
28:BI:153:ARG:NH1	28:BI:153:ARG:HB3	1.97	0.80
33:BN:16:ALA:HB3	33:BN:96:ASN:OD1	1.82	0.80
39:BT:124:ARG:HB3	39:BT:124:ARG:NH1	1.96	0.80
42:B0:107:VAL:HG23	42:B0:108:ILE:H	1.46	0.80
44:BX:17:LEU:HG	44:BX:58:ILE:HG23	1.64	0.80
1:AA:336:C:P	1:AA:1434:A:H5'	1.98	0.80
2:AT:18:ASN:HD21	2:AT:94:ASP:H	1.27	0.80
2:AT:111:PHE:HB2	2:AT:484:SER:N	1.95	0.80
9:AI:97:ASP:C	9:AI:102:ASN:H	1.84	0.80
9:AI:99:GLN:HB3	9:AI:115:LEU:H	1.47	0.80
10:AJ:52:LYS:CG	10:AJ:91:ILE:HG22	2.12	0.80
18:B3:672:G:H1	23:BD:232:LEU:HD11	1.47	0.80
18:B3:751:U:OP1	23:BD:111:LYS:C	2.19	0.80
18:B3:1380:U:C3'	43:BW:25:LYS:HZ2	1.92	0.80
18:B3:1427:A:O2'	33:BN:20:TYR:OH	2.00	0.80
18:B3:1830:C:H42	21:BB:180:LYS:HE3	0.64	0.80
18:B3:2531:U:O3'	18:B3:2532:A:H4'	1.82	0.80
18:B3:2719:A:H2	37:BR:91:VAL:CG1	1.95	0.80
21:BB:82:HIS:HA	47:B9:62:THR:O	1.82	0.80
21:BB:103:LEU:O	21:BB:106:VAL:HG12	1.82	0.80
21:BB:127:ARG:HH21	21:BB:128:ALA:HB3	1.45	0.80
21:BB:149:LEU:HB3	21:BB:150:PRO:HD2	1.64	0.80
22:BC:359:ASP:HA	38:BS:16:GLY:H	1.46	0.80
23:BD:208:TYR:CD1	23:BD:248:ILE:HG21	2.17	0.80
25:BF:87:ARG:CA	25:BF:133:VAL:HG12	2.07	0.80
29:BJ:33:SER:HA	29:BJ:36:LEU:CD2	2.11	0.80
34:BO:33:TYR:HB3	34:BO:36:LEU:CD1	2.12	0.80
35:BP:11:ALA:HB3	35:BP:18:LYS:NZ	1.96	0.80
44:BX:41:LEU:CD1	44:BX:43:LYS:HE3	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:20:U:H4'	1:AA:573:A:C2	2.14	0.79
1:AA:254:G:O4'	16:AQ:79:MET:HE2	1.74	0.79
1:AA:751:U:O2'	15:AO:83:ILE:CD1	2.29	0.79
1:AA:987:G:N2	1:AA:1014:A:O2'	2.14	0.79
1:AA:1319:A:OP2	17:AS:49:MET:SD	2.40	0.79
1:AA:1375:A:N6	7:AG:76:TYR:CZ	2.50	0.79
2:AT:109:VAL:HG21	2:AT:142:VAL:HG23	1.64	0.79
2:AT:744:TYR:CZ	18:B3:1171:A:C2	2.70	0.79
6:AE:100:VAL:HG22	6:AE:114:ILE:HG22	1.64	0.79
8:AH:23:GLN:HG3	8:AH:61:VAL:CG1	2.12	0.79
9:AI:51:LEU:HB3	9:AI:58:LYS:HG3	1.61	0.79
11:AK:27:VAL:HG13	11:AK:66:VAL:CG2	2.12	0.79
17:AS:56:PHE:HB2	17:AS:80:MET:HE2	1.63	0.79
18:B3:13:G:OP1	33:BN:60:ARG:HD3	1.82	0.79
18:B3:521:A:H5"	42:B0:26:HIS:NE2	1.96	0.79
18:B3:2081:A:C2'	32:BM:69:PRO:HB3	2.11	0.79
18:B3:2348:C:O4'	29:BJ:17:VAL:HG21	1.81	0.79
22:BC:214:ILE:HD12	22:BC:339:LYS:O	1.80	0.79
23:BD:229:VAL:HA	23:BD:232:LEU:HD23	1.64	0.79
24:BE:116:ASP:HB2	24:BE:143:LYS:H	1.47	0.79
26:BG:144:ASN:O	26:BG:146:LYS:HG2	1.81	0.79
26:BG:159:ILE:HD13	31:BL:40:ARG:HH11	1.45	0.79
27:BH:20:ILE:O	27:BH:47:LYS:HE2	1.81	0.79
29:BJ:59:ARG:CZ	29:BJ:62:GLU:HG2	2.11	0.79
32:BM:8:ILE:HD12	32:BM:18:LEU:CD1	2.10	0.79
32:BM:15:VAL:HG22	32:BM:42:ILE:CG2	2.13	0.79
33:BN:85:LYS:HA	33:BN:88:LYS:NZ	1.97	0.79
34:BO:54:LEU:HD23	34:BO:58:ASN:ND2	1.98	0.79
35:BP:109:ARG:HB2	35:BP:114:ILE:HG22	1.64	0.79
35:BP:116:LYS:HA	35:BP:119:TYR:CD1	2.17	0.79
41:BV:5:THR:CG2	41:BV:7:THR:HG22	2.12	0.79
1:AA:33:A:H2	12:AL:47:SER:CB	1.90	0.79
1:AA:143:A:H8	1:AA:200:G:H1'	0.63	0.79
1:AA:866:C:C5'	1:AA:1079:G:N1	2.38	0.79
1:AA:924:C:O2'	1:AA:1398:A:C3'	2.30	0.79
1:AA:950:U:P	13:AM:140:THR:OG1	2.40	0.79
1:AA:1176:A:O4'	9:AI:108:PHE:HD1	1.61	0.79
1:AA:1221:G:OP1	17:AS:96:ILE:CD1	2.30	0.79
1:AA:1341:U:HO2'	9:AI:140:SER:HA	1.45	0.79
10:AJ:34:LEU:HA	10:AJ:37:VAL:CG2	2.12	0.79
18:B3:672:G:O5'	23:BD:214:ILE:HD12	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1067:A:H4'	25:BF:93:LYS:O	1.82	0.79
18:B3:1285:U:C5'	25:BF:155:ILE:CG2	2.55	0.79
18:B3:1566:C:C3'	35:BP:56:VAL:CG1	2.60	0.79
18:B3:1592:G:O2'	35:BP:120:HIS:HE1	1.63	0.79
18:B3:1741:U:H5'	18:B3:2724:U:OP1	1.82	0.79
18:B3:2090:G:H2'	18:B3:2091:G:C8	2.17	0.79
18:B3:2101:A:H8	23:BD:71:ALA:HA	1.03	0.79
18:B3:2705:U:H5"	27:BH:122:LYS:CE	1.96	0.79
18:B3:2819:C:C2'	22:BC:101:LEU:N	2.37	0.79
18:B3:2828:G:H5'	22:BC:130:THR:O	1.82	0.79
19:B4:69:U:H4'	24:BE:14:SER:CA	2.09	0.79
21:BB:147:VAL:CG2	21:BB:155:LYS:HB2	2.12	0.79
23:BD:181:LEU:CD1	23:BD:202:ARG:HA	2.13	0.79
23:BD:215:VAL:HG21	23:BD:218:LEU:CD2	2.11	0.79
23:BD:217:ALA:O	23:BD:218:LEU:HD22	1.80	0.79
25:BF:101:VAL:O	25:BF:102:LEU:HD12	1.81	0.79
26:BG:130:ALA:HB1	26:BG:201:GLU:CG	2.12	0.79
31:BL:6:LEU:HD13	31:BL:44:PRO:HD2	1.63	0.79
31:BL:50:LEU:HD23	31:BL:116:ASN:O	1.81	0.79
31:BL:173:ILE:CD1	31:BL:188:LYS:HD3	2.10	0.79
31:BL:175:LYS:NZ	31:BL:175:LYS:HA	1.97	0.79
34:BO:59:ARG:HG2	34:BO:60:PRO:CA	2.12	0.79
34:BO:102:ALA:HB2	34:BO:122:ILE:CD1	2.10	0.79
35:BP:22:TRP:H	35:BP:51:LYS:HB2	1.47	0.79
35:BP:125:GLU:O	35:BP:130:ALA:HB3	1.82	0.79
43:BW:9:ARG:CZ	43:BW:72:LEU:HD21	2.11	0.79
43:BW:16:HIS:CE1	43:BW:31:ALA:HA	2.18	0.79
44:BX:44:ILE:HD12	44:BX:47:VAL:CG1	2.11	0.79
1:AA:125:U:H5"	1:AA:291:C:C4'	2.10	0.79
1:AA:580:U:H5'	15:AO:112:PHE:CZ	2.18	0.79
1:AA:1309:G:C2'	13:AM:92:ILE:CG1	2.24	0.79
4:AC:105:LYS:HA	4:AC:105:LYS:CE	2.11	0.79
8:AH:80:VAL:HG11	8:AH:124:ILE:HD11	1.64	0.79
9:AI:51:LEU:HD21	9:AI:84:ILE:CD1	2.12	0.79
18:B3:67:A:C1'	39:BT:60:LYS:NZ	2.45	0.79
18:B3:72:C:OP1	44:BX:49:LYS:CE	2.30	0.79
18:B3:265:U:C5'	31:BL:54:ALA:O	2.29	0.79
18:B3:638:C:H5"	42:B0:27:ARG:HB2	1.64	0.79
18:B3:1095:U:O2'	25:BF:209:PRO:CB	2.17	0.79
18:B3:1131:G:H5"	19:B4:91:C:C2	2.16	0.79
18:B3:1369:A:H4'	33:BN:64:SER:H	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1899:C:O4'	21:BB:223:THR:CG2	2.30	0.79
18:B3:1943:C:C4'	21:BB:218:ILE:CD1	2.24	0.79
21:BB:103:LEU:HD22	21:BB:106:VAL:HG11	1.63	0.79
21:BB:179:LEU:CD2	47:B9:20:SER:HB2	1.88	0.79
21:BB:187:LYS:HZ3	21:BB:187:LYS:HA	1.47	0.79
21:BB:195:TRP:CE2	21:BB:196:PRO:HA	2.16	0.79
22:BC:211:ASN:OD1	22:BC:348:LYS:HB2	1.82	0.79
22:BC:222:GLY:HA3	22:BC:270:GLY:CA	2.11	0.79
23:BD:38:PHE:HZ	23:BD:241:ALA:CA	1.94	0.79
23:BD:140:ARG:HH21	23:BD:178:LEU:HB3	1.46	0.79
24:BE:100:ALA:O	24:BE:103:LEU:HB3	1.82	0.79
26:BG:119:LYS:HB2	26:BG:188:LEU:CD1	2.11	0.79
27:BH:29:GLY:HA2	27:BH:31:ARG:O	1.82	0.79
27:BH:114:VAL:O	27:BH:123:ILE:HG23	1.81	0.79
28:BI:65:LEU:CD1	28:BI:69:ARG:HB3	2.12	0.79
28:BI:66:GLU:HA	28:BI:69:ARG:NE	1.96	0.79
29:BJ:83:LEU:HD13	29:BJ:84:LYS:H	1.47	0.79
32:BM:13:HIS:NE2	32:BM:18:LEU:HB2	1.96	0.79
32:BM:123:LEU:CD2	32:BM:125:VAL:H	1.95	0.79
33:BN:14:ALA:C	33:BN:149:VAL:HG12	2.03	0.79
35:BP:7:LYS:O	35:BP:7:LYS:HD2	1.82	0.79
35:BP:97:ARG:HB2	35:BP:97:ARG:NH1	1.98	0.79
39:BT:81:LEU:HB2	39:BT:122:TYR:CB	2.11	0.79
39:BT:104:VAL:CG1	39:BT:125:LEU:HD22	2.11	0.79
47:B9:32:GLN:HG2	47:B9:68:TYR:CB	2.12	0.79
1:AA:523:A:OP2	12:AL:123:LYS:NZ	2.15	0.79
1:AA:546:G:C3'	1:AA:548:G:O2'	2.30	0.79
1:AA:597:G:N2	8:AH:88:TRP:CZ2	2.50	0.79
1:AA:641:U:O4'	8:AH:106:SER:OG	2.00	0.79
1:AA:1075:C:C5'	3:AB:102:THR:HB	2.12	0.79
1:AA:1329:A:N6	13:AM:94:ASP:CA	2.41	0.79
2:AT:145:GLN:N	2:AT:483:PHE:CE2	2.50	0.79
3:AB:123:THR:HB	3:AB:173:TRP:CZ2	2.13	0.79
8:AH:99:GLY:HA3	8:AH:129:TYR:CB	2.13	0.79
14:AN:21:ARG:HB3	14:AN:35:LEU:CD2	2.13	0.79
18:B3:672:G:N1	23:BD:232:LEU:HD13	1.98	0.79
18:B3:678:G:H8	23:BD:259:GLN:CD	1.84	0.79
18:B3:1285:U:H4'	25:BF:155:ILE:HG12	1.65	0.79
18:B3:1398:G:H4'	35:BP:25:PRO:HD3	1.62	0.79
18:B3:1708:C:H5'	35:BP:87:ARG:HD3	1.65	0.79
18:B3:2165:G:O2'	20:BA:33:GLU:HB3	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:7:G:P	24:BE:30:TYR:CE1	2.75	0.79
20:BA:43:PRO:HD2	20:BA:132:GLY:HA2	1.62	0.79
20:BA:64:SER:HB3	20:BA:107:TYR:CD2	2.17	0.79
21:BB:106:VAL:CG2	21:BB:107:PRO:HD2	2.12	0.79
21:BB:138:HIS:HB2	21:BB:141:ASP:HA	1.63	0.79
22:BC:47:GLY:CA	22:BC:80:THR:HG22	2.11	0.79
23:BD:191:GLY:O	23:BD:196:ARG:HA	1.82	0.79
23:BD:255:THR:HG22	23:BD:256:LYS:H	1.48	0.79
24:BE:199:ILE:HG22	24:BE:223:PHE:CD2	2.17	0.79
25:BF:168:ILE:HD13	25:BF:179:SER:CA	2.12	0.79
26:BG:157:ASP:CB	26:BG:159:ILE:HG12	2.13	0.79
27:BH:41:ILE:C	32:BM:126:LEU:CB	2.51	0.79
28:BI:12:GLN:HG3	28:BI:58:GLU:CG	2.12	0.79
31:BL:42:THR:HG21	31:BL:120:VAL:CG1	2.12	0.79
33:BN:38:TRP:CE3	33:BN:42:LYS:HG2	2.18	0.79
36:BQ:45:ASN:O	36:BQ:48:ILE:HD12	1.82	0.79
37:BR:31:ALA:CA	37:BR:32:ARG:HD3	2.13	0.79
42:B0:66:LEU:HD11	42:B0:70:GLY:O	1.82	0.79
44:BX:53:CYS:O	44:BX:57:VAL:HG23	1.82	0.79
1:AA:190(E):U:OP2	16:AQ:137:ASN:HA	1.83	0.79
1:AA:1179:A:OP2	9:AI:116:LEU:HD23	1.82	0.79
1:AA:1319:A:H8	17:AS:49:MET:HE3	0.97	0.79
2:AT:829:LYS:HE3	2:AT:830:GLU:H	1.48	0.79
7:AG:186:ILE:HG23	7:AG:188:THR:N	1.98	0.79
9:AI:8:THR:OG1	9:AI:86:LYS:HB3	1.82	0.79
10:AJ:60:THR:HG23	10:AJ:86:ILE:O	1.83	0.79
12:AL:101:GLU:H	12:AL:132:LEU:HD23	1.47	0.79
18:B3:616:U:H2'	42:B0:47:ARG:CD	2.10	0.79
18:B3:797:A:H3'	18:B3:798:G:C8	2.17	0.79
18:B3:2295:G:O5'	36:BQ:5:HIS:N	2.14	0.79
18:B3:2337:G:P	29:BJ:103:PHE:CB	2.71	0.79
18:B3:2338:G:OP2	29:BJ:122:PHE:CA	2.04	0.79
18:B3:2654:C:H4'	22:BC:259:VAL:HG22	1.65	0.79
18:B3:2713:G:H5"	37:BR:45:ARG:HB2	1.63	0.79
18:B3:2848:G:P	22:BC:173:LYS:HD3	2.22	0.79
19:B4:50:G:C2	24:BE:57:ASN:OD1	2.36	0.79
19:B4:119:C:C1'	24:BE:71:GLY:CA	2.61	0.79
22:BC:121:TRP:CD2	22:BC:123:LYS:HG2	2.17	0.79
24:BE:143:LYS:HA	24:BE:172:TYR:O	1.82	0.79
24:BE:197:SER:OG	24:BE:223:PHE:HB2	1.82	0.79
25:BF:161:PRO:C	25:BF:162:LEU:HD13	2.03	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:115:VAL:HG11	26:BG:213:LEU:CB	2.13	0.79
32:BM:41:ASN:HD21	32:BM:134:TYR:HB3	1.48	0.79
34:BO:124:LEU:HD12	34:BO:127:LEU:CB	2.13	0.79
35:BP:43:LEU:HD23	35:BP:44:VAL:H	1.46	0.79
40:BU:109:LEU:HD23	40:BU:110:HIS:N	1.98	0.79
42:B0:76:VAL:HG13	42:B0:81:ASP:CG	2.02	0.79
1:AA:66:G:C5'	1:AA:173:U:O2	2.02	0.79
1:AA:66:G:C4'	1:AA:173:U:N1	2.21	0.79
1:AA:928:G:C5'	1:AA:1533:C:C4	2.63	0.79
1:AA:1225:A:O4'	17:AS:122:THR:O	1.94	0.79
1:AA:1299:A:O2'	13:AM:30:TYR:HB3	1.82	0.79
1:AA:1300:G:C4'	13:AM:30:TYR:HD1	1.59	0.79
2:AT:536:LEU:CB	18:B3:2698:G:O2'	2.30	0.79
4:AC:48:ILE:HD11	4:AC:88:GLU:HG3	1.65	0.79
6:AE:204:ARG:HG2	6:AE:207:GLU:H	1.47	0.79
18:B3:371:U:H2'	18:B3:372:A:C8	2.17	0.79
18:B3:946:C:H5'	25:BF:124:GLU:HB2	1.63	0.79
18:B3:1055:G:H21	28:BI:108:ALA:CB	1.94	0.79
18:B3:1167:G:H1'	30:BK:110:ILE:HB	1.64	0.79
18:B3:1369:A:OP2	33:BN:64:SER:HB3	1.81	0.79
18:B3:1694:G:H21	45:BY:5:PRO:CA	1.95	0.79
18:B3:1812:G:N3	18:B3:2732:U:C4'	2.45	0.79
18:B3:1861:C:H4'	21:BB:7:GLN:CA	2.11	0.79
18:B3:2312:G:H5"	28:BI:22:TYR:CE1	2.12	0.79
18:B3:2654:C:H4'	22:BC:261:TRP:N	1.78	0.79
19:B4:47:A:C4'	24:BE:154:THR:N	2.46	0.79
21:BB:116:GLU:CG	21:BB:161:ALA:HB1	2.12	0.79
22:BC:57:ARG:HH11	22:BC:72:VAL:HG21	1.46	0.79
26:BG:105:LYS:NZ	26:BG:105:LYS:HA	1.96	0.79
26:BG:109:THR:HA	26:BG:118:GLY:N	1.96	0.79
28:BI:31:ILE:HD13	28:BI:65:LEU:O	1.83	0.79
29:BJ:28:ARG:C	29:BJ:29:LEU:HD22	2.03	0.79
34:BO:54:LEU:HG	34:BO:55:SER:H	1.45	0.79
35:BP:24:ASP:CB	35:BP:27:GLU:HB2	2.11	0.79
40:BU:52:ARG:HA	40:BU:70:ILE:HG21	1.64	0.79
40:BU:58:VAL:HG23	40:BU:103:LYS:NZ	1.98	0.79
1:AA:255:G:C5'	16:AQ:81:ARG:HB3	2.10	0.79
1:AA:673:G:H2'	1:AA:674:G:C8	2.17	0.79
1:AA:778:G:O4'	11:AK:126:ARG:HD2	1.75	0.79
2:AT:91:GLN:HE22	2:AT:344:SER:H	1.27	0.79
4:AC:107:LYS:CB	4:AC:112:LEU:HD12	2.11	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:133:LEU:HD13	6:AE:134:SER:N	1.98	0.79
9:AI:101:LYS:C	9:AI:105:LYS:HB2	2.03	0.79
10:AJ:69:LYS:HE3	14:AN:39:ARG:CZ	2.12	0.79
18:B3:402:U:H5'	31:BL:69:ASN:HD22	1.46	0.79
18:B3:1163:G:C8	30:BK:51:LYS:CD	2.65	0.79
18:B3:1268:C:C5'	42:B0:61:LYS:HB3	2.12	0.79
18:B3:1396:C:C1'	35:BP:2:ASN:CB	2.61	0.79
18:B3:1401:G:H5"	43:BW:61:ARG:O	1.82	0.79
18:B3:1673:U:H3'	39:BT:111:THR:OG1	1.83	0.79
18:B3:1708:C:C5	35:BP:81:LYS:HG3	2.16	0.79
18:B3:1745:G:P	37:BR:22:ILE:HD13	2.23	0.79
18:B3:1788:U:O2'	18:B3:2882:G:C8	2.17	0.79
18:B3:1794:G:P	35:BP:97:ARG:HG2	2.22	0.79
18:B3:2560:C:C4'	27:BH:168:ARG:HD2	2.11	0.79
18:B3:2719:A:O5'	38:BS:17:ARG:NH2	2.09	0.79
18:B3:2737:C:C5	35:BP:61:ARG:CG	2.66	0.79
21:BB:67:LYS:HG3	21:BB:72:GLU:C	2.03	0.79
22:BC:54:THR:HG21	37:BR:91:VAL:CG2	2.13	0.79
22:BC:283:ARG:HG3	22:BC:322:MET:HE3	1.62	0.79
22:BC:359:ASP:CG	38:BS:14:TYR:HB2	2.01	0.79
23:BD:219:ARG:CZ	23:BD:220:ASN:HA	2.13	0.79
24:BE:219:PHE:CD1	24:BE:222:LEU:HB2	2.17	0.79
29:BJ:71:ARG:NE	29:BJ:75:ALA:H	1.81	0.79
31:BL:5:TYR:HA	31:BL:8:GLU:CB	2.05	0.79
41:BV:82:PRO:HD3	41:BV:120:VAL:CG1	2.11	0.79
41:BV:120:VAL:HG21	41:BV:122:VAL:HG13	1.65	0.79
41:BV:135:GLU:C	41:BV:136:LYS:HD2	2.02	0.79
42:B0:106:VAL:HA	42:B0:109:LEU:HB2	1.64	0.79
45:BY:16:THR:HG22	45:BY:17:LEU:H	1.46	0.79
1:AA:1178:G:OP1	9:AI:105:LYS:CG	2.23	0.79
1:AA:1302:U:C2'	13:AM:54:LEU:CD2	2.60	0.79
1:AA:1309:G:C1'	13:AM:92:ILE:CG1	1.94	0.79
1:AA:1318:A:H8	17:AS:54:ALA:HB1	0.97	0.79
5:AD:23:ARG:HB3	5:AD:36:LEU:HD13	1.64	0.79
6:AE:206:LEU:H	6:AE:206:LEU:HD22	1.48	0.79
7:AG:122:VAL:CG2	7:AG:123:LEU:HD12	2.09	0.79
8:AH:35:LYS:CG	8:AH:109:ILE:HG12	2.12	0.79
8:AH:82:ILE:HD11	8:AH:85:ILE:CG2	2.13	0.79
8:AH:96:ARG:HG2	8:AH:116:ARG:NH2	1.98	0.79
9:AI:19:ALA:HB2	9:AI:83:ALA:HB1	1.64	0.79
11:AK:47:VAL:HB	11:AK:52:ASP:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:148:A:H5"	45:BY:41:ALA:O	1.82	0.79
18:B3:433:C:H4'	31:BL:149:TRP:HE3	1.42	0.79
18:B3:541:C:H3'	42:B0:15:LYS:CB	2.11	0.79
18:B3:677:C:H4'	23:BD:256:LYS:CG	2.12	0.79
18:B3:698:A:C5'	41:BV:113:GLY:O	2.31	0.79
18:B3:919:U:H3	41:BV:41:ARG:CB	1.95	0.79
18:B3:1308:A:N6	23:BD:201:ARG:NH1	2.30	0.79
18:B3:1343:C:C6	23:BD:186:LEU:HD12	2.00	0.79
18:B3:1811:A:C5	18:B3:2730:G:N2	2.51	0.79
18:B3:2346:C:HO2'	18:B3:2347:C:H5'	1.45	0.79
18:B3:2560:C:O4'	18:B3:2776:A:H2	1.62	0.79
22:BC:120:ASN:HB3	22:BC:129:PHE:CD1	2.16	0.79
23:BD:171:VAL:HG23	23:BD:173:ALA:N	1.97	0.79
23:BD:256:LYS:HB3	23:BD:259:GLN:HB3	1.64	0.79
27:BH:57:VAL:HB	32:BM:126:LEU:HD12	1.65	0.79
29:BJ:18:LEU:H	29:BJ:68:VAL:HB	1.46	0.79
30:BK:94:LYS:HD2	30:BK:137:GLN:O	1.82	0.79
34:BO:81:VAL:H	34:BO:101:VAL:CG2	1.96	0.79
40:BU:23:PRO:HD2	40:BU:26:GLN:CB	2.12	0.79
40:BU:113:LYS:N	40:BU:113:LYS:HE3	1.97	0.79
41:BV:78:TRP:HB3	41:BV:117:ILE:CD1	2.12	0.79
47:B9:78:VAL:O	47:B9:79:ARG:HD2	1.83	0.79
1:AA:518:C:C1'	12:AL:66:SER:O	2.29	0.79
1:AA:713:G:N2	11:AK:124:SER:O	2.11	0.79
1:AA:1224:G:OP2	13:AM:139:LYS:CD	2.31	0.79
1:AA:1309:G:C4'	13:AM:91:ASP:CB	2.60	0.79
4:AC:105:LYS:CD	4:AC:183:ILE:HB	2.13	0.79
5:AD:101:VAL:N	5:AD:191:ALA:HB3	1.98	0.79
8:AH:103:LEU:CD2	8:AH:124:ILE:HG22	2.13	0.79
10:AJ:56:VAL:CG1	10:AJ:90:TYR:HB2	2.13	0.79
13:AM:122:HIS:CD2	17:AS:118:GLU:HB3	2.17	0.79
17:AS:83:MET:HG2	17:AS:84:ILE:O	1.83	0.79
18:B3:487:G:C5'	40:BU:90:VAL:HB	2.13	0.79
18:B3:693:A:H5"	41:BV:59:TYR:CG	2.18	0.79
18:B3:1315:G:N2	42:B0:107:VAL:CB	2.45	0.79
18:B3:1470:A:H4'	31:BL:95:ARG:HD2	1.65	0.79
18:B3:2251:G:H2'	18:B3:2252:A:C8	2.18	0.79
18:B3:2336:G:O3'	29:BJ:101:PHE:CD2	2.36	0.79
18:B3:2345:A:H4'	29:BJ:48:LYS:HE3	1.63	0.79
18:B3:2545:U:C2'	22:BC:238:PRO:CG	2.61	0.79
18:B3:2823:G:OP2	22:BC:135:LYS:CG	2.31	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:61:VAL:HG22	21:BB:62:PHE:HD1	1.48	0.79
22:BC:18:ARG:HD3	22:BC:271:TYR:OH	1.83	0.79
26:BG:212:LYS:HE2	26:BG:213:LEU:CD2	2.12	0.79
30:BK:117:ARG:HD2	30:BK:118:ASP:N	1.98	0.79
32:BM:25:GLN:HA	32:BM:28:ASN:ND2	1.96	0.79
35:BP:93:VAL:HG12	35:BP:97:ARG:HH21	1.48	0.79
36:BQ:76:ILE:CG1	36:BQ:78:LYS:HB2	2.13	0.79
40:BU:117:ALA:C	40:BU:118:LEU:HD23	2.03	0.79
1:AA:68:G:H3'	1:AA:73:C:OP2	1.82	0.79
1:AA:99:C:C4'	1:AA:101:A:N7	2.44	0.79
1:AA:987:G:N2	1:AA:1014:A:H1'	1.98	0.79
1:AA:1067:A:C5'	1:AA:1387:G:H4'	2.13	0.79
1:AA:1225:A:H1'	17:AS:122:THR:O	1.82	0.79
2:AT:694:HIS:O	2:AT:700:ARG:HD3	1.83	0.79
4:AC:40:VAL:CG2	4:AC:45:THR:HG22	2.13	0.79
5:AD:24:LEU:O	5:AD:28:LEU:HD22	1.82	0.79
10:AJ:72:ASN:ND2	14:AN:28:GLY:CA	2.46	0.79
18:B3:27:U:O4'	18:B3:1319:G:C3'	2.30	0.79
18:B3:99:A:C6	40:BU:24:SER:HB3	2.17	0.79
18:B3:921:G:H5"	41:BV:42:ILE:HG13	1.63	0.79
18:B3:926:A:C1'	41:BV:45:ASP:OD2	2.30	0.79
18:B3:1163:G:H21	30:BK:52:GLU:CD	1.87	0.79
18:B3:1277:C:C5'	34:BO:34:THR:HG21	2.13	0.79
18:B3:1788:U:OP2	35:BP:73:ARG:NH1	2.16	0.79
18:B3:2320:U:H2'	46:BZ:3:VAL:HG11	1.62	0.79
18:B3:2737:C:C5	35:BP:61:ARG:N	2.50	0.79
19:B4:7:G:C8	24:BE:22:ARG:HG2	2.18	0.79
20:BA:179:LEU:HA	20:BA:182:GLN:HE21	1.46	0.79
22:BC:40:VAL:HG11	22:BC:43:THR:CA	2.13	0.79
22:BC:103:THR:O	22:BC:141:ALA:HB1	1.83	0.79
22:BC:205:ASP:HA	22:BC:208:PHE:CE1	2.18	0.79
28:BI:86:HIS:CE1	28:BI:138:VAL:HG11	2.17	0.79
32:BM:8:ILE:CD1	32:BM:18:LEU:HD11	2.13	0.79
33:BN:66:ILE:C	33:BN:79:LYS:HD2	2.04	0.79
35:BP:10:ALA:HB1	35:BP:22:TRP:CZ2	2.18	0.79
35:BP:39:ALA:O	35:BP:43:LEU:HD22	1.83	0.79
41:BV:134:GLU:CB	41:BV:138:ARG:HD3	2.13	0.79
46:BZ:17:ARG:HG2	46:BZ:18:LYS:H	1.48	0.79
1:AA:118:U:C1'	1:AA:122:G:H1'	2.13	0.78
1:AA:124:G:P	1:AA:312:C:H1'	2.22	0.78
1:AA:357:G:OP1	1:AA:366:C:C5'	2.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:616:G:H3'	5:AD:146:PHE:HZ	1.47	0.78
1:AA:620:C:C5'	5:AD:129:ILE:HD11	1.96	0.78
1:AA:676:A:C8	11:AK:121:PRO:CD	2.66	0.78
1:AA:1314:C:C4	17:AS:49:MET:O	2.35	0.78
6:AE:118:LYS:HD3	6:AE:118:LYS:O	1.82	0.78
11:AK:84:ALA:N	11:AK:118:THR:HG22	1.97	0.78
12:AL:59:ILE:HD11	12:AL:117:ILE:CD1	2.13	0.78
12:AL:117:ILE:HG13	12:AL:120:VAL:CG2	2.12	0.78
13:AM:126:ARG:HH12	17:AS:121:ILE:HG13	1.47	0.78
18:B3:25:A:N3	18:B3:1320:U:C4'	2.37	0.78
18:B3:68:U:H5'	44:BX:51:ILE:HD11	1.65	0.78
18:B3:68:U:C4	44:BX:54:VAL:O	2.34	0.78
18:B3:111:C:H5"	18:B3:118:G:O6	1.79	0.78
18:B3:390:G:P	46:BZ:47:SER:HB3	2.23	0.78
18:B3:905:C:C2'	18:B3:1329:A:C4'	2.51	0.78
18:B3:1056:U:H3'	28:BI:109:ASP:CG	1.85	0.78
18:B3:1353:C:OP2	23:BD:102:THR:OG1	2.01	0.78
18:B3:1401:G:H5"	43:BW:62:GLY:C	2.04	0.78
18:B3:1713:G:O2'	18:B3:2745:C:O2	2.01	0.78
18:B3:1806:G:N3	18:B3:2884:G:C1'	2.45	0.78
18:B3:2215:A:C5'	20:BA:107:TYR:CG	2.60	0.78
18:B3:2334:C:C2	29:BJ:116:ASP:CA	2.47	0.78
18:B3:2821:C:H5'	22:BC:103:THR:CA	1.53	0.78
18:B3:2848:G:OP1	22:BC:173:LYS:HD3	1.83	0.78
19:B4:9:C:OP2	36:BQ:26:HIS:CD2	2.35	0.78
19:B4:48:C:C2'	24:BE:158:ARG:HG2	2.10	0.78
19:B4:50:G:O6	24:BE:56:THR:O	2.01	0.78
22:BC:112:GLU:CB	22:BC:173:LYS:HB2	2.13	0.78
22:BC:283:ARG:HD2	22:BC:355:LEU:HG	1.65	0.78
25:BF:115:PHE:HB3	25:BF:194:PHE:CE2	2.18	0.78
31:BL:99:ALA:HA	31:BL:168:LYS:CE	2.12	0.78
31:BL:154:VAL:HG13	31:BL:158:ARG:HA	1.64	0.78
39:BT:114:ARG:HG3	39:BT:116:ASN:HB3	1.64	0.78
40:BU:113:LYS:HD2	40:BU:116:LYS:NZ	1.97	0.78
45:BY:36:CYS:HA	45:BY:44:ARG:CB	2.09	0.78
47:B9:21:LEU:HA	47:B9:22:ARG:NH1	1.97	0.78
1:AA:678:U:C5'	11:AK:127:LYS:CA	2.33	0.78
1:AA:1285:A:H4'	1:AA:1286:A:O5'	1.80	0.78
1:AA:1309:G:C4	13:AM:92:ILE:O	2.36	0.78
2:AT:748:ASN:HB2	18:B3:2508:C:O2	1.83	0.78
5:AD:101:VAL:O	5:AD:190:GLU:HA	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:157:THR:OG1	8:AH:127:PHE:CZ	2.36	0.78
10:AJ:50:LEU:CD1	10:AJ:94:GLU:HB3	2.14	0.78
13:AM:84:TRP:HB3	13:AM:99:HIS:O	1.82	0.78
17:AS:109:PRO:HA	17:AS:112:LEU:HD13	1.65	0.78
18:B3:902:G:H8	41:BV:21:ILE:HD11	1.40	0.78
18:B3:918:G:N2	41:BV:45:ASP:OD2	2.16	0.78
18:B3:1566:C:O5'	35:BP:57:HIS:CE1	2.35	0.78
18:B3:1654:U:OP2	21:BB:49:HIS:HE1	1.65	0.78
18:B3:2826:G:C2	22:BC:124:SER:HB3	2.18	0.78
19:B4:35:C:O2	24:BE:185:PHE:HB2	1.79	0.78
19:B4:47:A:H4'	24:BE:154:THR:H	1.48	0.78
20:BA:54:LYS:N	20:BA:157:PHE:HB3	1.99	0.78
20:BA:67:ILE:HD11	20:BA:73:ASP:OD1	1.83	0.78
20:BA:175:GLU:O	20:BA:178:VAL:HG22	1.82	0.78
21:BB:111:ILE:HG23	21:BB:132:TYR:HB2	1.62	0.78
23:BD:92:MET:HE3	23:BD:92:MET:HA	1.65	0.78
24:BE:115:LEU:HD21	24:BE:171:LEU:HD13	1.64	0.78
24:BE:148:ILE:HG22	24:BE:159:VAL:CG1	2.11	0.78
27:BH:43:VAL:CG1	32:BM:127:ARG:N	2.46	0.78
27:BH:63:LYS:HZ3	32:BM:130:PRO:HB3	1.48	0.78
31:BL:161:ARG:HD3	31:BL:169:LYS:HG3	1.65	0.78
34:BO:37:ALA:HB2	34:BO:46:LYS:HB2	1.65	0.78
37:BR:11:PHE:HB3	37:BR:86:ARG:NE	1.96	0.78
37:BR:16:GLY:C	37:BR:17:LEU:HD22	2.04	0.78
38:BS:46:PRO:HA	38:BS:49:ILE:CD1	2.12	0.78
42:B0:22:SER:HA	42:B0:28:VAL:CG2	2.13	0.78
42:B0:72:LYS:H	42:B0:90:LYS:CD	1.95	0.78
44:BX:44:ILE:HA	44:BX:47:VAL:CG1	2.12	0.78
45:BY:17:LEU:HD12	45:BY:17:LEU:O	1.84	0.78
47:B9:22:ARG:HE	47:B9:24:GLN:H	1.28	0.78
1:AA:143:A:OP1	1:AA:201:C:H5	1.58	0.78
1:AA:254:G:H4'	16:AQ:79:MET:HE1	1.61	0.78
1:AA:860:A:H5"	3:AB:133:LYS:HZ2	1.45	0.78
1:AA:989:C:C2	1:AA:1016:A:N9	2.51	0.78
4:AC:118:ALA:HB3	4:AC:149:MET:HE1	1.65	0.78
6:AE:192:VAL:HG11	6:AE:195:VAL:CG1	2.13	0.78
13:AM:86:LEU:HD13	13:AM:87:ASN:N	1.98	0.78
18:B3:670:G:H22	23:BD:231:SER:HA	1.47	0.78
18:B3:948:G:O2'	36:BQ:100:LYS:HE3	1.52	0.78
18:B3:1565:C:H5'	18:B3:2738:G:N7	1.99	0.78
18:B3:1785:G:O4'	18:B3:2733:U:OP1	2.00	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2244:A:C3'	31:BL:27:TRP:HZ3	1.96	0.78
18:B3:2468:A:C5	46:BZ:55:PRO:HD3	2.19	0.78
20:BA:153:SER:O	20:BA:158:GLN:N	2.15	0.78
21:BB:16:THR:O	21:BB:192:ARG:HA	1.82	0.78
24:BE:88:ILE:HG22	24:BE:219:PHE:CE2	2.17	0.78
26:BG:113:ALA:HB2	26:BG:119:LYS:CA	2.12	0.78
33:BN:135:ILE:HD12	33:BN:135:ILE:O	1.83	0.78
36:BQ:42:ILE:CD1	36:BQ:91:LEU:HD22	2.13	0.78
40:BU:36:SER:OG	40:BU:38:GLU:HG3	1.83	0.78
40:BU:86:THR:HG21	40:BU:97:ILE:HG23	1.63	0.78
41:BV:18:LYS:HE3	41:BV:20:ARG:CB	2.12	0.78
41:BV:97:THR:CG2	41:BV:124:VAL:HG22	2.12	0.78
47:B9:59:CYS:HB3	47:B9:61:LYS:HZ1	1.48	0.78
1:AA:292:G:O2'	1:AA:609:A:C5	2.34	0.78
1:AA:956:U:C2'	17:AS:126:VAL:HG21	2.12	0.78
2:AT:536:LEU:HB2	18:B3:2698:G:O2'	1.83	0.78
5:AD:28:LEU:HB3	5:AD:43:TYR:CA	2.13	0.78
5:AD:156:ILE:HD11	5:AD:160:PRO:HB2	1.65	0.78
11:AK:18:ILE:HD13	11:AK:27:VAL:CG2	2.14	0.78
17:AS:83:MET:HE3	17:AS:85:ILE:HG22	1.66	0.78
18:B3:750:A:H4'	23:BD:116:GLU:HB2	1.65	0.78
18:B3:763:C:H2'	23:BD:86:GLN:HG2	1.63	0.78
18:B3:796:A:H4'	47:B9:12:LYS:CB	2.04	0.78
18:B3:894:A:C2	23:BD:98:MET:CE	2.67	0.78
18:B3:905:C:H2'	18:B3:1329:A:C4'	1.88	0.78
18:B3:1300:G:C6	18:B3:1330:A:N1	2.51	0.78
18:B3:1306:U:C5'	23:BD:195:ASN:CG	2.48	0.78
19:B4:56:A:C2'	19:B4:57:A:H5"	2.13	0.78
19:B4:117:G:N3	24:BE:70:THR:HG22	1.95	0.78
21:BB:50:ASP:OD2	21:BB:57:LEU:HG	1.83	0.78
23:BD:124:ALA:HB2	23:BD:234:LEU:HD13	1.65	0.78
24:BE:62:CYS:SG	24:BE:105:ILE:HD13	2.23	0.78
25:BF:152:PHE:HB2	25:BF:200:PHE:CD2	2.19	0.78
26:BG:116:ALA:CA	26:BG:177:ALA:HB2	2.14	0.78
27:BH:88:TYR:HB3	27:BH:181:VAL:HG21	1.65	0.78
29:BJ:136:ARG:CZ	29:BJ:137:VAL:HG22	2.14	0.78
31:BL:112:LEU:HD23	31:BL:133:LEU:HD13	1.64	0.78
31:BL:119:TRP:HB3	31:BL:128:TYR:O	1.82	0.78
32:BM:8:ILE:CD1	32:BM:18:LEU:HD21	2.13	0.78
36:BQ:42:ILE:HD13	36:BQ:91:LEU:CD2	2.13	0.78
41:BV:97:THR:CG2	41:BV:124:VAL:HA	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:131:C:H1'	1:AA:264:U:N1	1.67	0.78
1:AA:634:C:H3'	16:AQ:92:TYR:CE1	2.05	0.78
1:AA:1503:A:C8	1:AA:1531:A:C2	2.72	0.78
5:AD:124:HIS:O	5:AD:127:VAL:HG22	1.83	0.78
7:AG:133:VAL:O	7:AG:136:ILE:HG22	1.83	0.78
11:AK:111:ILE:HD12	11:AK:114:ILE:HD11	1.63	0.78
18:B3:68:U:C5'	44:BX:51:ILE:CD1	2.61	0.78
18:B3:157:G:HO2'	31:BL:95:ARG:NH2	1.77	0.78
18:B3:164:G:O2'	41:BV:31:ARG:HB2	1.83	0.78
18:B3:485:A:N3	18:B3:487:G:H5"	1.98	0.78
18:B3:890:C:H2'	45:BY:48:TRP:O	1.82	0.78
18:B3:1133:A:C2	18:B3:2501:G:C5	2.72	0.78
18:B3:1348:A:N1	23:BD:42:ASN:ND2	2.31	0.78
18:B3:1705:C:C4'	35:BP:62:THR:CB	2.08	0.78
18:B3:2333:G:C1'	29:BJ:114:LYS:HG2	2.13	0.78
18:B3:2818:A:H2'	22:BC:99:ARG:O	1.84	0.78
20:BA:67:ILE:HD13	20:BA:77:ALA:HB2	1.63	0.78
22:BC:281:ILE:HD11	22:BC:321:ILE:CG2	2.14	0.78
23:BD:5:VAL:HG21	23:BD:150:VAL:CG1	2.14	0.78
24:BE:144:VAL:CB	24:BE:171:LEU:HD21	2.13	0.78
26:BG:117:GLU:HG2	26:BG:213:LEU:HB3	1.66	0.78
26:BG:117:GLU:HG3	26:BG:213:LEU:HD22	1.63	0.78
27:BH:41:ILE:CG2	32:BM:126:LEU:HD23	2.03	0.78
27:BH:62:ARG:O	32:BM:129:LYS:O	2.00	0.78
32:BM:137:LEU:CD1	32:BM:139:LYS:H	1.93	0.78
39:BT:107:LEU:HB2	39:BT:126:THR:HG22	1.65	0.78
40:BU:35:LEU:HG	40:BU:39:LEU:HD23	1.66	0.78
46:BZ:62:LYS:HD3	46:BZ:64:THR:H	1.48	0.78
1:AA:239:U:C6	1:AA:240:C:C4	2.72	0.78
1:AA:318:G:H1'	1:AA:1468:A:C4'	2.13	0.78
1:AA:920:U:C5'	1:AA:1080:A:C5	2.60	0.78
1:AA:989:C:C4'	1:AA:1013:G:H21	1.95	0.78
1:AA:1344:C:OP1	9:AI:136:ARG:CG	2.31	0.78
1:AA:1404:C:O2'	1:AA:1519:A:H5"	1.83	0.78
8:AH:35:LYS:O	8:AH:109:ILE:HD11	1.83	0.78
9:AI:99:GLN:H	9:AI:105:LYS:C	1.87	0.78
17:AS:90:ILE:HG12	17:AS:112:LEU:HD11	1.63	0.78
18:B3:664:U:C4'	23:BD:114:HIS:CB	2.61	0.78
18:B3:1830:C:C4	21:BB:180:LYS:HE3	2.18	0.78
18:B3:2037:C:H3'	37:BR:47:ASN:HD21	0.77	0.78
18:B3:2274:A:C2'	31:BL:80:TYR:N	2.46	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2346:C:H4'	29:BJ:46:GLN:C	2.04	0.78
18:B3:2830:U:C1'	22:BC:126:LYS:HZ1	1.95	0.78
19:B4:29:C:H2'	19:B4:30:C:H5'	1.65	0.78
21:BB:27:LYS:CA	21:BB:122:ARG:HD2	2.14	0.78
22:BC:15:PHE:O	22:BC:16:LEU:HD12	1.83	0.78
22:BC:145:ARG:HA	22:BC:145:ARG:CZ	2.12	0.78
22:BC:331:ARG:O	22:BC:334:ILE:HG22	1.83	0.78
23:BD:133:LEU:HD11	23:BD:137:ARG:HE	1.49	0.78
35:BP:137:LEU:O	35:BP:141:ILE:HG13	1.82	0.78
39:BT:95:LYS:HD2	39:BT:106:VAL:CG2	2.14	0.78
39:BT:112:LEU:HB3	39:BT:120:LYS:HB3	1.64	0.78
40:BU:112:ASP:HB3	40:BU:113:LYS:NZ	1.99	0.78
42:B0:15:LYS:HD2	42:B0:16:LYS:N	1.99	0.78
42:B0:42:VAL:HA	42:B0:49:ASN:HD22	1.47	0.78
1:AA:560:U:H5'	1:AA:563:A:OP1	1.82	0.78
1:AA:678:U:H5'	11:AK:127:LYS:CB	2.14	0.78
1:AA:707:C:H5"	11:AK:19:TYR:CD1	2.18	0.78
1:AA:839:U:H5'	1:AA:840:C:C5	2.19	0.78
1:AA:1084:G:O6	6:AE:90:ARG:NH1	2.16	0.78
1:AA:1151:A:N7	10:AJ:57:ARG:NH2	2.32	0.78
1:AA:1309:G:C8	13:AM:92:ILE:CD1	2.64	0.78
1:AA:1419:G:C2	18:B3:1990:C:C5'	2.67	0.78
5:AD:30:LEU:HD12	5:AD:67:PRO:HG3	1.64	0.78
6:AE:153:LEU:HD23	8:AH:97:GLN:HA	1.66	0.78
7:AG:185:ASN:HB2	7:AG:191:GLU:HB3	1.65	0.78
9:AI:98:GLU:HA	9:AI:105:LYS:CB	2.12	0.78
16:AQ:75:VAL:HG23	16:AQ:84:VAL:HG13	1.66	0.78
18:B3:1815:A:C8	18:B3:2733:U:C4	2.70	0.78
18:B3:2404:G:C8	36:BQ:69:LYS:CE	2.66	0.78
18:B3:2520:G:H5'	28:BI:160:PRO:CA	2.01	0.78
18:B3:2840:A:P	22:BC:224:GLY:CA	2.66	0.78
22:BC:39:PRO:HD3	22:BC:190:LYS:HB3	1.66	0.78
22:BC:221:LYS:HE3	22:BC:221:LYS:N	1.99	0.78
22:BC:296:SER:CB	22:BC:300:THR:HG21	2.14	0.78
24:BE:43:LYS:HD3	24:BE:44:TYR:CD1	2.18	0.78
24:BE:95:TRP:HB3	24:BE:99:TYR:CE2	2.19	0.78
25:BF:106:ARG:C	25:BF:107:LEU:HD13	2.03	0.78
25:BF:147:VAL:O	25:BF:162:LEU:HD21	1.84	0.78
25:BF:180:ILE:CD1	25:BF:182:ASP:H	1.97	0.78
30:BK:37:LEU:HB2	30:BK:64:ILE:CD1	2.13	0.78
30:BK:73:VAL:HG11	30:BK:75:PRO:HD3	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:63:ASN:OD1	33:BN:79:LYS:HG2	1.83	0.78
35:BP:3:LEU:HD12	35:BP:31:ILE:HD12	1.64	0.78
35:BP:7:LYS:HB3	35:BP:7:LYS:HZ2	1.48	0.78
37:BR:39:VAL:CG1	37:BR:58:VAL:HG12	2.14	0.78
41:BV:120:VAL:HB	41:BV:122:VAL:N	1.99	0.78
44:BX:43:LYS:O	44:BX:46:THR:HB	1.84	0.78
46:BZ:72:GLU:HA	46:BZ:79:ARG:HB2	1.65	0.78
1:AA:25:C:C4'	12:AL:109:ARG:NE	2.39	0.78
1:AA:404:U:C4	5:AD:70:LEU:HD11	2.19	0.78
1:AA:552:U:H1'	12:AL:48:HIS:HA	1.63	0.78
1:AA:1286:A:H3'	1:AA:1287:A:H5"	1.64	0.78
4:AC:40:VAL:HG23	4:AC:45:THR:HG22	1.64	0.78
5:AD:92:LYS:HA	6:AE:174:GLY:CA	2.12	0.78
8:AH:21:LYS:O	8:AH:64:LEU:HD22	1.84	0.78
10:AJ:44:ASN:OD1	10:AJ:106:ILE:HG12	1.84	0.78
16:AQ:108:VAL:HG11	16:AQ:138:VAL:HG13	1.66	0.78
17:AS:85:ILE:HD13	17:AS:114:HIS:O	1.82	0.78
18:B3:26:U:O2	18:B3:1320:U:C1'	2.31	0.78
18:B3:402:U:H1'	31:BL:92:LYS:CG	2.10	0.78
18:B3:448:G:C2	23:BD:47:GLN:CB	2.67	0.78
18:B3:721:A:H5"	34:BO:71:LEU:N	1.98	0.78
18:B3:1226:G:P	18:B3:1246:A:N6	2.53	0.78
18:B3:1433:G:OP2	33:BN:22:ARG:CZ	2.31	0.78
18:B3:1590:A:N6	18:B3:1605:G:H1'	1.99	0.78
18:B3:1733:A:O3'	22:BC:227:GLY:N	2.16	0.78
18:B3:2169:C:H2'	20:BA:26:ARG:NH1	1.98	0.78
18:B3:2413:A:C1'	24:BE:174:PRO:CB	2.62	0.78
18:B3:2546:U:O4'	22:BC:238:PRO:HD3	1.84	0.78
18:B3:2737:C:H41	35:BP:61:ARG:HH21	1.31	0.78
19:B4:5:G:C2	24:BE:72:ASP:OD2	2.22	0.78
21:BB:116:GLU:OE2	21:BB:119:PRO:HA	1.84	0.78
21:BB:177:PRO:HD3	47:B9:25:VAL:HG22	1.60	0.78
22:BC:163:THR:H	22:BC:177:LEU:CD2	1.96	0.78
23:BD:33:ILE:HG22	23:BD:120:ALA:CB	2.12	0.78
23:BD:229:VAL:HA	23:BD:232:LEU:CD2	2.14	0.78
25:BF:107:LEU:HD12	25:BF:114:THR:HG21	1.65	0.78
25:BF:146:LEU:HD22	25:BF:239:VAL:HG22	1.66	0.78
27:BH:71:VAL:HG21	32:BM:127:ARG:NH1	1.98	0.78
27:BH:114:VAL:HG22	27:BH:125:ASN:HB2	1.66	0.78
29:BJ:121:ILE:HA	29:BJ:125:ASP:HB3	1.66	0.78
30:BK:22:VAL:HG13	30:BK:23:GLY:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:22:GLN:HA	31:BL:25:ARG:CG	2.14	0.78
32:BM:53:TYR:HB3	32:BM:140:LEU:HD21	1.65	0.78
35:BP:137:LEU:CD2	35:BP:141:ILE:HD11	2.13	0.78
47:B9:48:ARG:HD2	47:B9:48:ARG:H	1.49	0.78
1:AA:190(E):U:C4	16:AQ:131:SER:N	2.51	0.78
1:AA:546:G:H5'	1:AA:549:C:H5"	1.65	0.78
1:AA:675:A:C8	11:AK:120:VAL:HG13	2.19	0.78
1:AA:677:U:C4	11:AK:123:ASP:HA	2.17	0.78
1:AA:1117:G:C2'	9:AI:120:SER:CB	2.36	0.78
1:AA:1225:A:H2	17:AS:126:VAL:C	1.87	0.78
1:AA:1320:C:O4'	17:AS:114:HIS:HB3	1.84	0.78
4:AC:39:ARG:HH21	10:AJ:110:PRO:HA	1.48	0.78
4:AC:104:MET:SD	4:AC:118:ALA:HA	2.23	0.78
6:AE:192:VAL:HG11	6:AE:195:VAL:HG13	1.66	0.78
8:AH:24:VAL:CG2	8:AH:64:LEU:HD11	2.13	0.78
15:AO:82:GLU:HB3	15:AO:85:GLU:HB2	1.65	0.78
15:AO:90:LEU:HD23	15:AO:121:ILE:HG13	1.65	0.78
18:B3:107:U:O2'	44:BX:56:THR:HA	1.82	0.78
18:B3:2505:G:OP1	28:BI:75:TYR:CZ	2.16	0.78
19:B4:86:G:P	25:BF:218:LYS:CG	2.66	0.78
21:BB:113:SER:O	21:BB:164:VAL:HG22	1.84	0.78
21:BB:179:LEU:HA	47:B9:20:SER:HA	1.66	0.78
22:BC:213:MET:HE1	22:BC:346:SER:O	1.83	0.78
24:BE:75:LEU:CD2	24:BE:109:THR:HG23	2.13	0.78
24:BE:220:SER:HA	24:BE:223:PHE:CD2	2.18	0.78
25:BF:144:ARG:O	25:BF:147:VAL:HG22	1.82	0.78
27:BH:16:VAL:HG12	27:BH:29:GLY:O	1.84	0.78
29:BJ:71:ARG:HD3	29:BJ:71:ARG:N	1.98	0.78
35:BP:22:TRP:CE3	35:BP:51:LYS:HB2	2.19	0.78
35:BP:138:VAL:HA	35:BP:141:ILE:CD1	2.13	0.78
38:BS:49:ILE:HD13	38:BS:49:ILE:H	1.48	0.78
41:BV:95:LYS:HG2	41:BV:122:VAL:CG1	2.14	0.78
41:BV:118:PRO:CG	41:BV:140:ALA:HB3	2.13	0.78
47:B9:22:ARG:NE	47:B9:24:GLN:HG2	1.97	0.78
47:B9:30:ILE:O	47:B9:33:HIS:HB2	1.83	0.78
1:AA:1349:A:C5'	9:AI:135:SER:HB3	2.13	0.78
2:AT:141:THR:OG1	2:AT:481:MET:HB3	1.82	0.78
5:AD:58:ASP:O	5:AD:61:THR:HG22	1.84	0.78
10:AJ:80:GLU:OE1	14:AN:43:ARG:HD2	1.81	0.78
13:AM:91:ASP:CB	13:AM:113:LEU:HD12	2.13	0.78
16:AQ:109:HIS:HB2	16:AQ:130:ILE:CD1	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:672:G:H1	23:BD:232:LEU:HD13	1.48	0.78
18:B3:1398:G:H5'	35:BP:23:LEU:HB3	1.65	0.78
18:B3:1717:A:H5"	35:BP:54:VAL:CG2	2.14	0.78
18:B3:1805:G:N2	18:B3:2883:A:N7	2.32	0.78
18:B3:2347:C:O2'	29:BJ:68:VAL:N	2.18	0.78
18:B3:2415:A:H2	24:BE:35:ARG:CZ	1.92	0.78
18:B3:2655:U:C6	22:BC:261:TRP:NE1	2.51	0.78
18:B3:2709:G:C8	37:BR:7:GLN:NE2	2.52	0.78
22:BC:354:SER:O	22:BC:355:LEU:HD13	1.83	0.78
25:BF:181:ASP:HA	25:BF:184:ILE:HD11	1.64	0.78
27:BH:34:LEU:CD2	27:BH:149:ASN:HB3	2.11	0.78
27:BH:161:LEU:HA	27:BH:164:ILE:HG13	1.64	0.78
28:BI:51:HIS:CB	28:BI:52:LEU:HD13	2.13	0.78
28:BI:87:LEU:HD13	28:BI:88:ARG:N	1.99	0.78
30:BK:25:SER:O	30:BK:30:PRO:HD2	1.84	0.78
31:BL:114:VAL:HB	31:BL:133:LEU:CD2	2.14	0.78
33:BN:104:LYS:HB3	33:BN:106:LEU:CD1	2.14	0.78
33:BN:107:ASP:HB3	33:BN:110:LYS:HD3	1.67	0.78
41:BV:74:LEU:CG	41:BV:117:ILE:HG13	2.14	0.78
46:BZ:68:VAL:O	46:BZ:69:LEU:HD23	1.83	0.78
1:AA:130:A:H5"	1:AA:190(E):U:P	2.19	0.77
1:AA:190(E):U:H4'	16:AQ:109:HIS:NE2	1.34	0.77
1:AA:239:U:H3'	1:AA:240:C:N3	1.98	0.77
1:AA:266:G:O3'	16:AQ:132:LYS:CB	2.31	0.77
1:AA:320:C:H5'	1:AA:1435:G:N2	1.97	0.77
1:AA:401:C:C2	1:AA:622:A:C4	2.72	0.77
1:AA:778:G:H3'	11:AK:126:ARG:HD2	1.65	0.77
7:AG:161:VAL:HG22	7:AG:165:ARG:HD2	1.64	0.77
9:AI:58:LYS:CE	9:AI:62:ILE:HG13	2.13	0.77
17:AS:64:LYS:HD3	17:AS:65:LEU:N	1.98	0.77
18:B3:677:C:C1'	23:BD:231:SER:N	2.46	0.77
18:B3:894:A:O5'	23:BD:57:HIS:CD2	2.37	0.77
18:B3:2526:C:O4'	18:B3:2605:G:C5'	2.13	0.77
20:BA:120:VAL:HG22	20:BA:121:PRO:HD3	1.66	0.77
21:BB:45:LYS:HB3	21:BB:71:ARG:CD	2.14	0.77
22:BC:302:LYS:HB2	22:BC:320:PHE:CZ	2.19	0.77
22:BC:313:TYR:CZ	22:BC:333:ARG:HG2	2.18	0.77
27:BH:18:VAL:HA	27:BH:26:LYS:HZ2	1.48	0.77
27:BH:43:VAL:CG1	32:BM:127:ARG:CD	2.54	0.77
27:BH:43:VAL:HG12	32:BM:126:LEU:HB2	1.56	0.77
30:BK:112:ILE:CG2	30:BK:132:ILE:HD13	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:102:GLU:HG2	31:BL:168:LYS:NZ	1.98	0.77
31:BL:112:LEU:CD2	31:BL:133:LEU:HD13	2.13	0.77
32:BM:7:VAL:HB	32:BM:115:LYS:CG	2.04	0.77
35:BP:104:LEU:C	35:BP:105:LEU:HD22	2.05	0.77
37:BR:54:LEU:CD1	37:BR:78:VAL:HG22	2.13	0.77
37:BR:96:GLU:HG3	37:BR:97:ASP:H	1.48	0.77
40:BU:52:ARG:O	40:BU:70:ILE:HG22	1.84	0.77
46:BZ:62:LYS:HZ3	46:BZ:62:LYS:HB2	1.48	0.77
1:AA:552:U:H1'	12:AL:48:HIS:CA	2.12	0.77
1:AA:677:U:H5'	11:AK:127:LYS:HZ1	1.48	0.77
1:AA:988:G:H1'	1:AA:1014:A:H3'	0.78	0.77
1:AA:1226:C:H4'	1:AA:1227:A:OP1	1.84	0.77
1:AA:1298:C:H42	7:AG:184:ARG:HH11	0.79	0.77
1:AA:1329:A:C4	13:AM:97:ASP:OD1	2.38	0.77
1:AA:1370:G:P	9:AI:123:PRO:HG2	2.25	0.77
5:AD:99:LEU:HD13	5:AD:101:VAL:CA	2.13	0.77
6:AE:75:LEU:CD2	6:AE:132:LYS:HE2	2.14	0.77
9:AI:49:GLU:O	9:AI:53:LEU:HD23	1.83	0.77
10:AJ:49:ASN:OD1	10:AJ:99:ILE:HG12	1.83	0.77
13:AM:37:GLY:HA3	13:AM:101:LEU:HD22	1.66	0.77
18:B3:672:G:N9	23:BD:214:ILE:CG2	2.43	0.77
18:B3:677:C:H5'	23:BD:232:LEU:HB2	1.66	0.77
18:B3:953:G:C5'	36:BQ:13:TYR:HD2	1.83	0.77
18:B3:1117:A:P	18:B3:1138:G:O6	2.40	0.77
18:B3:1350:U:H6	23:BD:43:LYS:CD	1.81	0.77
18:B3:1351:G:C8	23:BD:108:TRP:CZ3	2.71	0.77
18:B3:1529:G:C5'	21:BB:69:ARG:HH11	1.96	0.77
18:B3:2214:A:C2'	20:BA:106:LYS:CB	2.60	0.77
18:B3:2668:G:C3'	22:BC:128:ALA:CB	2.62	0.77
18:B3:2846:C:O2'	22:BC:172:GLN:CD	2.22	0.77
22:BC:41:ALA:HB3	22:BC:42:LEU:HD12	1.65	0.77
22:BC:74:ALA:HB1	22:BC:322:MET:SD	2.24	0.77
27:BH:63:LYS:HB2	32:BM:131:GLY:N	1.98	0.77
28:BI:10:ARG:HB3	28:BI:59:GLN:O	1.84	0.77
31:BL:13:LYS:CA	31:BL:18:LEU:HD23	2.11	0.77
31:BL:30:ARG:CZ	31:BL:31:GLN:H	1.97	0.77
31:BL:189:THR:CG2	31:BL:194:ASN:HA	2.15	0.77
32:BM:74:ALA:O	32:BM:78:ILE:HD13	1.85	0.77
34:BO:66:ARG:HB3	34:BO:66:ARG:CZ	2.13	0.77
35:BP:21:VAL:HG23	35:BP:22:TRP:CZ3	2.19	0.77
38:BS:51:TRP:HA	38:BS:51:TRP:CE3	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:14:LYS:HE2	40:BU:15:ALA:H	1.48	0.77
40:BU:54:ASP:OD1	40:BU:109:LEU:HA	1.84	0.77
46:BZ:82:LEU:H	46:BZ:82:LEU:HD23	1.49	0.77
1:AA:545:C:O5'	5:AD:30:LEU:HD11	1.85	0.77
1:AA:581:G:OP1	15:AO:119:SER:HB3	1.84	0.77
1:AA:1118:C:H4'	9:AI:118:ALA:HB3	1.63	0.77
1:AA:1221:G:OP1	17:AS:96:ILE:HD12	1.84	0.77
4:AC:137:VAL:HA	4:AC:183:ILE:HD12	1.67	0.77
10:AJ:73:GLY:HA2	14:AN:25:SER:C	2.03	0.77
16:AQ:75:VAL:CG2	16:AQ:84:VAL:HG13	2.15	0.77
17:AS:56:PHE:HB2	17:AS:80:MET:SD	2.25	0.77
18:B3:35:U:O2'	23:BD:48:ALA:N	2.17	0.77
18:B3:72:C:H5'	44:BX:49:LYS:O	1.82	0.77
18:B3:664:U:H4'	23:BD:114:HIS:CB	2.13	0.77
18:B3:905:C:C2'	18:B3:1329:A:H4'	2.13	0.77
18:B3:1067:A:H4'	25:BF:94:ILE:CG2	2.14	0.77
18:B3:1098:A:P	25:BF:216:PRO:CA	2.71	0.77
18:B3:1182:U:H5"	30:BK:104:ILE:H	1.48	0.77
18:B3:1191:G:O6	18:B3:1207:A:N1	2.05	0.77
18:B3:1286:A:OP1	25:BF:156:ASN:N	2.16	0.77
18:B3:2826:G:N9	22:BC:124:SER:N	2.32	0.77
20:BA:24:LYS:HD2	20:BA:25:LYS:N	1.97	0.77
21:BB:68:TYR:O	21:BB:71:ARG:HG2	1.84	0.77
22:BC:185:GLY:H	22:BC:190:LYS:CE	1.97	0.77
22:BC:217:ILE:HD11	22:BC:337:LEU:CB	2.08	0.77
23:BD:180:VAL:HG11	23:BD:222:PRO:C	2.04	0.77
24:BE:49:TYR:HE1	24:BE:65:ILE:HA	1.49	0.77
37:BR:93:LEU:HB2	38:BS:21:PHE:CG	2.19	0.77
45:BY:15:HIS:CE1	45:BY:25:SER:HA	2.19	0.77
46:BZ:9:THR:HB	46:BZ:19:HIS:CB	2.13	0.77
46:BZ:66:LYS:N	46:BZ:66:LYS:HE2	1.99	0.77
1:AA:190(E):U:C5	16:AQ:134:VAL:HG22	2.17	0.77
1:AA:333:G:N2	1:AA:1435:G:O3'	2.17	0.77
1:AA:1177:G:C3'	9:AI:105:LYS:CD	2.40	0.77
1:AA:1320:C:O2'	13:AM:122:HIS:CE1	2.24	0.77
2:AT:748:ASN:HB2	18:B3:2508:C:C2	2.19	0.77
4:AC:102:GLU:HG2	4:AC:172:ARG:HD2	1.64	0.77
5:AD:26:ALA:CB	5:AD:70:LEU:HD21	2.15	0.77
6:AE:204:ARG:O	6:AE:209:THR:HG23	1.84	0.77
10:AJ:42:VAL:O	10:AJ:46:GLU:HG2	1.84	0.77
18:B3:123:U:C3'	39:BT:87:MET:HG2	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:165:A:H5”	41:BV:31:ARG:H	1.48	0.77
18:B3:749:C:O2’	23:BD:116:GLU:OE1	2.01	0.77
18:B3:762:C:H41	41:BV:23:LYS:NZ	1.80	0.77
18:B3:1019:C:H5”	36:BQ:78:LYS:CE	2.15	0.77
18:B3:1025:C:C4’	25:BF:104:LEU:HD12	2.14	0.77
18:B3:1116:U:HO2’	18:B3:1118:A:H2	1.31	0.77
18:B3:1287:A:H2	25:BF:106:ARG:HH11	0.79	0.77
18:B3:1855:G:N1	21:BB:150:PRO:CD	2.43	0.77
18:B3:2124:G:H1’	21:BB:229:VAL:HG11	1.64	0.77
18:B3:2415:A:C2	24:BE:35:ARG:NH2	2.52	0.77
18:B3:2580:G:H5’	18:B3:2680:A:C6	2.18	0.77
18:B3:2737:C:C6	35:BP:60:SER:C	2.58	0.77
19:B4:68:G:C2	24:BE:11:ALA:CB	2.66	0.77
20:BA:43:PRO:CD	20:BA:132:GLY:HA2	2.14	0.77
21:BB:56:PRO:HG2	47:B9:51:ALA:HB3	1.65	0.77
21:BB:138:HIS:HD2	21:BB:145:THR:HA	1.49	0.77
22:BC:39:PRO:HB3	22:BC:183:ASN:C	2.05	0.77
22:BC:162:HIS:HA	22:BC:177:LEU:CG	2.14	0.77
22:BC:211:ASN:HB3	22:BC:350:LEU:O	1.84	0.77
30:BK:53:PHE:HE1	30:BK:86:LYS:HD3	1.49	0.77
32:BM:8:ILE:HD12	32:BM:18:LEU:HD21	1.66	0.77
32:BM:91:THR:HG23	32:BM:95:LYS:HZ2	1.49	0.77
33:BN:117:GLN:CB	33:BN:146:GLU:H	1.96	0.77
34:BO:137:THR:C	34:BO:138:LEU:HD12	2.04	0.77
41:BV:5:THR:HG22	41:BV:7:THR:HG22	1.67	0.77
1:AA:35:G:C4’	12:AL:128:SER:CB	2.63	0.77
1:AA:64:G:N2	1:AA:73:C:N4	2.33	0.77
1:AA:129(A):G:H2’	16:AQ:125:GLY:C	2.04	0.77
1:AA:243:A:C4’	1:AA:244:U:H5’	2.12	0.77
1:AA:839:U:H2’	1:AA:839:U:O2	1.84	0.77
2:AT:138:GLN:NE2	18:B3:2698:G:H5’	1.99	0.77
2:AT:141:THR:O	2:AT:483:PHE:HD2	1.64	0.77
12:AL:87:VAL:HG12	12:AL:124:VAL:HG21	1.66	0.77
18:B3:782:G:C5’	21:BB:189:ARG:NH1	2.44	0.77
18:B3:905:C:H5”	41:BV:11:ARG:NE	1.68	0.77
18:B3:1267:C:O2’	42:B0:61:LYS:HG3	1.82	0.77
18:B3:1285:U:C4’	25:BF:155:ILE:HG21	2.15	0.77
18:B3:1359:U:H4’	23:BD:91:ASN:ND2	1.98	0.77
18:B3:1739:G:C4’	18:B3:2726:U:H3	1.96	0.77
18:B3:1739:G:C4’	18:B3:2726:U:N3	2.46	0.77
18:B3:2336:G:H4’	29:BJ:101:PHE:CD1	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2345:A:O3'	29:BJ:48:LYS:HD3	1.83	0.77
18:B3:2348:C:O4'	29:BJ:17:VAL:CG2	2.24	0.77
18:B3:2575:C:O2'	18:B3:2775:A:H1'	1.85	0.77
22:BC:165:ILE:HG12	22:BC:171:ALA:CB	2.15	0.77
22:BC:223:HIS:CD2	22:BC:269:ARG:HD2	2.19	0.77
22:BC:307:MET:O	22:BC:362:SER:HA	1.83	0.77
23:BD:38:PHE:HZ	23:BD:241:ALA:HA	1.48	0.77
27:BH:57:VAL:CG2	32:BM:126:LEU:CD1	2.42	0.77
30:BK:85:LEU:CD1	30:BK:102:GLY:HA3	2.15	0.77
31:BL:188:LYS:HG3	31:BL:189:THR:H	1.47	0.77
34:BO:127:LEU:O	34:BO:127:LEU:HD13	1.85	0.77
43:BW:13:ILE:CD1	43:BW:17:LYS:HE2	2.14	0.77
43:BW:77:LYS:HD3	43:BW:79:ASN:HD22	1.49	0.77
45:BY:15:HIS:NE2	45:BY:25:SER:HA	1.99	0.77
1:AA:351:G:H4'	1:AA:352:C:OP1	1.83	0.77
1:AA:405:U:O5'	5:AD:37:LYS:CE	2.24	0.77
1:AA:947:G:H5"	13:AM:143:ARG:HH21	1.47	0.77
1:AA:1086:U:C5'	1:AA:1389:C:C4'	2.53	0.77
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.20	0.77
8:AH:82:ILE:HD11	8:AH:85:ILE:HG22	1.67	0.77
9:AI:19:ALA:CB	9:AI:83:ALA:HB1	2.14	0.77
10:AJ:44:ASN:HB3	10:AJ:102:ARG:CG	2.15	0.77
13:AM:17:LEU:HG	13:AM:70:VAL:HG22	1.66	0.77
13:AM:86:LEU:HD12	13:AM:88:ARG:O	1.85	0.77
18:B3:107:U:C6	44:BX:60:GLU:C	2.57	0.77
18:B3:281:U:H2'	18:B3:282:C:O4'	1.84	0.77
18:B3:659:A:P	34:BO:107:THR:HB	2.25	0.77
18:B3:1154:A:O3'	18:B3:1156:C:O3'	1.98	0.77
18:B3:1167:G:C1'	30:BK:111:GLU:N	2.47	0.77
18:B3:1565:C:O3'	35:BP:59:LYS:CD	2.28	0.77
18:B3:2101:A:H3'	23:BD:66:THR:CA	1.93	0.77
18:B3:2652:U:H1'	22:BC:257:ALA:HB2	1.67	0.77
18:B3:2676:C:P	32:BM:73:ARG:HD2	2.24	0.77
18:B3:2845:G:H4'	22:BC:24:ILE:HG21	0.78	0.77
19:B4:39:U:H1'	19:B4:44:A:H61	1.50	0.77
21:BB:118:LYS:HB2	21:BB:121:ASP:OD2	1.85	0.77
24:BE:113:LEU:HD22	24:BE:114:GLY:N	2.00	0.77
27:BH:10:ILE:HG23	27:BH:52:LEU:CD2	2.15	0.77
27:BH:68:LEU:HB3	32:BM:127:ARG:NE	1.99	0.77
28:BI:18:PRO:HD3	28:BI:95:HIS:CA	2.10	0.77
28:BI:135:ILE:HG22	28:BI:136:PHE:HD2	1.45	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:91:LEU:HD12	31:BL:91:LEU:O	1.84	0.77
36:BQ:31:LEU:HD13	36:BQ:31:LEU:O	1.84	0.77
37:BR:62:VAL:HG21	37:BR:69:LEU:O	1.84	0.77
45:BY:30:LYS:C	45:BY:31:LYS:HD3	2.05	0.77
47:B9:24:GLN:HG3	47:B9:25:VAL:HG23	1.65	0.77
47:B9:32:GLN:HG3	47:B9:69:THR:H	1.50	0.77
47:B9:55:THR:OG1	47:B9:62:THR:HA	1.83	0.77
1:AA:293:G:C2'	1:AA:609:A:C2	2.65	0.77
1:AA:518:C:O2	12:AL:65:ASN:CA	2.33	0.77
1:AA:562:C:O2	12:AL:32:ARG:CG	2.32	0.77
1:AA:1234:C:H5'	1:AA:1365:G:OP1	1.85	0.77
1:AA:1286:A:H2'	1:AA:1287:A:C5'	2.14	0.77
1:AA:1318:A:O2'	17:AS:83:MET:HA	1.83	0.77
5:AD:100:LYS:HD2	5:AD:191:ALA:CB	2.15	0.77
10:AJ:50:LEU:HD22	10:AJ:94:GLU:O	1.85	0.77
18:B3:762:C:H41	41:BV:23:LYS:HE3	1.46	0.77
18:B3:1134:G:OP2	18:B3:1229:C:C4	2.30	0.77
18:B3:1787:C:C4	18:B3:2883:A:C4'	2.59	0.77
18:B3:1805:G:C2	18:B3:2883:A:C4	2.73	0.77
18:B3:1847:A:H4'	21:BB:179:LEU:O	1.64	0.77
18:B3:2093:G:N2	22:BC:257:ALA:O	2.17	0.77
18:B3:2347:C:H6	29:BJ:66:VAL:CG1	0.70	0.77
18:B3:2558:G:H2'	18:B3:2799:A:O2'	1.84	0.77
18:B3:2796:U:O2'	27:BH:127:PRO:CD	2.33	0.77
18:B3:2820:A:C1'	22:BC:89:VAL:HB	2.15	0.77
24:BE:15:ARG:NE	24:BE:15:ARG:HA	2.00	0.77
25:BF:167:ILE:HD12	25:BF:179:SER:O	1.84	0.77
26:BG:151:LEU:HD21	26:BG:185:LEU:CB	2.15	0.77
27:BH:75:VAL:HB	27:BH:78:MET:HE2	1.67	0.77
29:BJ:161:TRP:O	29:BJ:164:GLN:HG2	1.83	0.77
34:BO:102:ALA:HB1	34:BO:124:LEU:CA	2.14	0.77
41:BV:132:LEU:H	41:BV:132:LEU:HD23	1.49	0.77
43:BW:61:ARG:HB3	43:BW:61:ARG:NH1	1.99	0.77
1:AA:17:U:C4	1:AA:916:G:C6	2.69	0.77
1:AA:70:G:H22	1:AA:101:A:N6	1.76	0.77
1:AA:1298:C:C4'	13:AM:57:ARG:HH22	1.97	0.77
1:AA:1375:A:N6	7:AG:76:TYR:CE2	2.53	0.77
9:AI:21:VAL:HG13	9:AI:62:ILE:CG2	2.14	0.77
9:AI:99:GLN:HB2	9:AI:104:LEU:O	1.85	0.77
18:B3:72:C:C4'	44:BX:49:LYS:HZ1	1.95	0.77
18:B3:905:C:C5'	41:BV:11:ARG:HE	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1148:C:H5'	18:B3:1148:C:H6	1.49	0.77
18:B3:2345:A:C5'	29:BJ:48:LYS:CE	2.62	0.77
18:B3:2388:C:O2'	36:BQ:54:HIS:HD2	1.66	0.77
19:B4:49:G:C4	24:BE:93:THR:O	2.37	0.77
20:BA:54:LYS:HD3	20:BA:150:ASP:OD1	1.83	0.77
20:BA:114:GLU:HG2	20:BA:137:PRO:CB	2.12	0.77
20:BA:151:VAL:CA	20:BA:158:GLN:NE2	2.42	0.77
22:BC:118:TYR:HA	22:BC:132:TYR:HB2	1.66	0.77
23:BD:73:ILE:HB	23:BD:75:ARG:N	2.00	0.77
23:BD:160:LYS:CE	23:BD:162:LYS:HB3	2.15	0.77
23:BD:221:VAL:HG11	23:BD:224:VAL:CB	2.15	0.77
26:BG:209:ALA:O	26:BG:213:LEU:HG	1.83	0.77
27:BH:64:HIS:CB	32:BM:127:ARG:CB	2.50	0.77
29:BJ:31:ARG:HE	29:BJ:34:LYS:HE2	1.48	0.77
31:BL:5:TYR:CA	31:BL:8:GLU:HB3	2.06	0.77
31:BL:173:ILE:HD12	31:BL:174:ASN:OD1	1.85	0.77
33:BN:75:PHE:O	33:BN:77:VAL:HG22	1.85	0.77
33:BN:123:LYS:HA	33:BN:142:PRO:CD	2.15	0.77
34:BO:74:GLU:HB2	34:BO:138:LEU:HD23	1.63	0.77
40:BU:34:PRO:O	40:BU:106:ILE:HG12	1.84	0.77
40:BU:58:VAL:CG2	40:BU:63:LYS:HG2	2.07	0.77
41:BV:97:THR:HG21	41:BV:124:VAL:HA	1.65	0.77
41:BV:98:ALA:HB1	41:BV:99:PRO:HD2	1.67	0.77
1:AA:20:U:H5'	1:AA:573:A:N6	1.96	0.77
1:AA:66:G:H5'	1:AA:173:U:H3	1.49	0.77
1:AA:436:C:C4'	1:AA:496:A:OP1	2.23	0.77
6:AE:107:ASN:CB	6:AE:143:TRP:H	1.98	0.77
10:AJ:55:PRO:HA	10:AJ:91:ILE:CG1	2.10	0.77
11:AK:47:VAL:C	11:AK:52:ASP:HB3	2.05	0.77
16:AQ:90:LEU:CD1	16:AQ:101:LYS:HB3	2.14	0.77
18:B3:26:U:O2	18:B3:1319:G:N3	2.18	0.77
18:B3:520:A:H5'	18:B3:1322:G:P	2.24	0.77
18:B3:659:A:OP1	34:BO:107:THR:CG2	2.33	0.77
18:B3:672:G:OP1	23:BD:214:ILE:HD12	1.85	0.77
18:B3:1183:C:H1'	30:BK:104:ILE:HD12	1.65	0.77
18:B3:2334:C:H1'	29:BJ:114:LYS:N	1.99	0.77
18:B3:2336:G:C4'	29:BJ:101:PHE:CD1	2.67	0.77
18:B3:2349:G:H5"	29:BJ:15:LYS:HD2	1.66	0.77
18:B3:2796:U:O3'	27:BH:127:PRO:CG	2.26	0.77
18:B3:2820:A:C5'	22:BC:102:THR:N	2.46	0.77
20:BA:73:ASP:OD1	20:BA:144:LEU:HD21	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:14:GLY:H	22:BC:16:LEU:CD1	1.97	0.77
22:BC:48:TYR:HB2	22:BC:335:VAL:HA	1.66	0.77
22:BC:88:VAL:HG22	22:BC:157:VAL:CG2	2.15	0.77
26:BG:104:LYS:HD2	26:BG:109:THR:OG1	1.85	0.77
27:BH:43:VAL:CG1	32:BM:126:LEU:HA	1.86	0.77
27:BH:43:VAL:HG11	32:BM:127:ARG:HD2	1.67	0.77
31:BL:65:VAL:HB	31:BL:66:ARG:NH1	1.96	0.77
31:BL:69:ASN:HD21	31:BL:92:LYS:HB3	1.49	0.77
34:BO:83:VAL:HG12	34:BO:140:LEU:O	1.84	0.77
37:BR:67:PRO:HB2	37:BR:69:LEU:HD23	1.66	0.77
46:BZ:72:GLU:HA	46:BZ:79:ARG:HG3	1.67	0.77
1:AA:950:U:P	13:AM:140:THR:HG1	2.08	0.77
1:AA:1224:G:H4'	13:AM:139:LYS:CB	2.15	0.77
1:AA:1299:A:O3'	13:AM:26:ILE:CD1	2.33	0.77
1:AA:1503:A:OP1	1:AA:1531:A:C5	2.38	0.77
2:AT:111:PHE:HE2	2:AT:483:PHE:CD2	1.98	0.77
11:AK:11:GLN:O	11:AK:12:VAL:HG12	1.86	0.77
18:B3:35:U:H5"	23:BD:104:THR:HG21	1.64	0.77
18:B3:517:U:OP1	18:B3:1339:G:OP1	2.02	0.77
18:B3:542:A:OP2	42:B0:15:LYS:N	2.17	0.77
18:B3:890:C:O2'	45:BY:48:TRP:O	1.98	0.77
18:B3:1149:U:H5"	18:B3:1151:G:O4'	1.84	0.77
18:B3:1309:U:H6	23:BD:204:PRO:CD	1.93	0.77
18:B3:2036:C:H5"	37:BR:48:ARG:NH2	2.00	0.77
18:B3:2319:C:P	46:BZ:1:VAL:HG21	2.24	0.77
18:B3:2668:G:O3'	22:BC:128:ALA:HB1	1.85	0.77
18:B3:2672:C:H5'	22:BC:31:PHE:CZ	2.20	0.77
23:BD:135:LEU:HB3	23:BD:139:HIS:CE1	2.20	0.77
24:BE:54:ARG:HB2	24:BE:61:ILE:HG22	1.66	0.77
26:BG:115:VAL:HG23	26:BG:214:VAL:HG12	1.65	0.77
27:BH:12:VAL:HG13	27:BH:13:PRO:CD	2.13	0.77
27:BH:21:LYS:H	27:BH:24:ILE:CD1	1.96	0.77
29:BJ:33:SER:HA	29:BJ:36:LEU:HD23	1.64	0.77
29:BJ:70:VAL:HG12	29:BJ:75:ALA:CB	2.15	0.77
31:BL:26:VAL:HA	31:BL:29:TYR:HB2	1.66	0.77
31:BL:63:VAL:HG12	31:BL:64:ARG:O	1.85	0.77
33:BN:59:PHE:CD2	33:BN:81:ARG:HD3	2.20	0.77
33:BN:126:ARG:CB	33:BN:137:LYS:HB2	2.15	0.77
34:BO:122:ILE:HD13	34:BO:126:GLN:CB	2.03	0.77
36:BQ:64:VAL:HG23	36:BQ:73:GLY:O	1.84	0.77
37:BR:28:ASN:HB2	37:BR:102:ILE:HD12	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:14:LYS:HD2	40:BU:17:LYS:CD	2.14	0.77
1:AA:25:C:P	12:AL:39:LYS:HE3	2.25	0.76
1:AA:67:C:C4	1:AA:70:G:O6	2.37	0.76
1:AA:190(D):U:H3	16:AQ:112:PRO:HD3	1.51	0.76
1:AA:990:C:HO2'	1:AA:1017:G:P	2.05	0.76
1:AA:1220:G:P	17:AS:80:MET:HB3	2.24	0.76
1:AA:1240:U:H5"	7:AG:188:THR:HA	1.63	0.76
4:AC:100:GLN:HG3	4:AC:125:VAL:HG21	1.66	0.76
4:AC:104:MET:SD	4:AC:135:VAL:HG11	2.26	0.76
4:AC:116:ARG:HA	4:AC:119:TYR:HD2	1.48	0.76
6:AE:215:VAL:HG23	8:AH:129:TYR:OH	1.83	0.76
7:AG:110:VAL:HG21	9:AI:43:LEU:CB	2.15	0.76
17:AS:89:MET:HB2	17:AS:107:ILE:HD11	1.66	0.76
18:B3:124:C:O5'	39:BT:88:LYS:NZ	2.18	0.76
18:B3:178:U:O3'	45:BY:47:ASN:HB2	1.85	0.76
18:B3:506:G:H22	18:B3:509:A:C5'	1.97	0.76
18:B3:843:A:N1	33:BN:132:HIS:ND1	2.33	0.76
18:B3:1342:C:N4	23:BD:186:LEU:HB3	1.99	0.76
18:B3:1869:A:O2'	21:BB:192:ARG:NH2	2.18	0.76
18:B3:2346:C:C1'	29:BJ:64:ILE:HG13	2.14	0.76
18:B3:2434:A:OP2	46:BZ:35:PHE:CD1	2.38	0.76
18:B3:2809:G:C4'	22:BC:16:LEU:O	2.33	0.76
18:B3:2853:U:C5'	22:BC:170:LEU:HD23	2.10	0.76
23:BD:31:PRO:HA	23:BD:34:VAL:CG2	2.16	0.76
25:BF:99:ARG:N	25:BF:102:LEU:HD13	1.99	0.76
26:BG:153:ALA:HB3	26:BG:196:VAL:HG12	1.66	0.76
28:BI:72:ALA:O	28:BI:76:MET:HG2	1.85	0.76
29:BJ:77:GLU:O	29:BJ:78:ILE:HG23	1.84	0.76
33:BN:39:GLU:HG3	33:BN:41:THR:H	1.50	0.76
33:BN:59:PHE:CE1	33:BN:79:LYS:HG3	2.20	0.76
34:BO:37:ALA:CB	34:BO:46:LYS:HB2	2.15	0.76
34:BO:102:ALA:HB1	34:BO:124:LEU:HA	1.67	0.76
36:BQ:40:VAL:HG12	36:BQ:41:ASP:O	1.85	0.76
37:BR:93:LEU:CB	38:BS:21:PHE:HA	1.97	0.76
38:BS:46:PRO:HA	38:BS:49:ILE:HD11	1.66	0.76
40:BU:99:LEU:HD13	40:BU:100:HIS:CE1	2.20	0.76
1:AA:25:C:C4'	12:AL:109:ARG:HD2	2.16	0.76
1:AA:129:U:O3'	16:AQ:127:CYS:O	2.01	0.76
1:AA:190(D):U:N3	16:AQ:112:PRO:HD3	2.00	0.76
1:AA:924:C:O2'	1:AA:1399:C:P	2.42	0.76
1:AA:1321:C:H1'	17:AS:120:SER:N	2.00	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:C2'	13:AM:90:ASN:ND2	2.48	0.76
1:AA:1343:G:O4'	9:AI:138:GLN:N	2.18	0.76
1:AA:1496:C:C5'	18:B3:1962:G:P	2.64	0.76
6:AE:169:ILE:HD13	6:AE:170:PRO:N	2.00	0.76
8:AH:102:ILE:HD11	8:AH:109:ILE:HD12	1.66	0.76
10:AJ:68:ARG:HB3	14:AN:39:ARG:HB2	0.79	0.76
18:B3:183:A:O4'	31:BL:158:ARG:NH1	2.18	0.76
18:B3:646:G:H5"	23:BD:106:ARG:HH22	1.49	0.76
18:B3:1018:A:H1'	36:BQ:60:LYS:HA	1.67	0.76
18:B3:1118:A:O4'	18:B3:1227:C:N4	2.18	0.76
18:B3:1119:G:C5'	32:BM:48:ARG:NE	2.31	0.76
18:B3:1742:A:C8	18:B3:2723:G:C4'	2.65	0.76
18:B3:1870:C:O3'	21:BB:192:ARG:CB	2.18	0.76
18:B3:2047:C:O3'	33:BN:68:ARG:NH2	2.06	0.76
18:B3:2396:C:C2'	41:BV:46:LYS:HE2	2.15	0.76
18:B3:2898:G:OP1	22:BC:312:HIS:O	2.04	0.76
19:B4:47:A:C4'	24:BE:160:PHE:CE2	2.60	0.76
19:B4:86:G:P	25:BF:218:LYS:HZ2	2.07	0.76
20:BA:8:GLN:HB3	20:BA:216:LEU:HD11	1.67	0.76
20:BA:50:SER:HB3	20:BA:150:ASP:CG	2.05	0.76
21:BB:237:ILE:HG22	21:BB:238:ALA:H	1.49	0.76
23:BD:27:ALA:HB3	23:BD:126:ALA:CB	2.15	0.76
25:BF:184:ILE:HD13	25:BF:184:ILE:H	1.50	0.76
27:BH:57:VAL:CB	32:BM:126:LEU:HD12	2.14	0.76
33:BN:88:LYS:HE3	33:BN:89:PHE:CD2	2.21	0.76
37:BR:11:PHE:CE2	37:BR:121:GLU:HG3	2.20	0.76
37:BR:61:THR:HG23	37:BR:72:LYS:CB	2.12	0.76
37:BR:96:GLU:HG3	37:BR:97:ASP:OD1	1.85	0.76
39:BT:104:VAL:HG11	39:BT:125:LEU:HD22	1.66	0.76
1:AA:11:G:H21	1:AA:525:C:H4'	1.51	0.76
1:AA:24:U:C3'	12:AL:39:LYS:HE3	2.13	0.76
1:AA:678:U:C1'	11:AK:125:THR:HG22	2.15	0.76
1:AA:956:U:O4'	17:AS:126:VAL:CB	2.21	0.76
1:AA:989:C:O2	1:AA:1016:A:C1'	2.32	0.76
1:AA:1319:A:N7	17:AS:49:MET:HE3	2.00	0.76
1:AA:1375:A:N6	7:AG:76:TYR:OH	2.17	0.76
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.19	0.76
4:AC:121:VAL:HG23	4:AC:135:VAL:HG21	1.66	0.76
5:AD:100:LYS:HB3	5:AD:191:ALA:HB3	1.68	0.76
10:AJ:69:LYS:C	14:AN:42:PHE:HB3	1.88	0.76
10:AJ:72:ASN:OD1	14:AN:26:HIS:C	2.23	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:78:THR:HG23	14:AN:39:ARG:CB	2.15	0.76
13:AM:88:ARG:NH1	13:AM:115:ARG:HH12	1.81	0.76
18:B3:391:U:O3'	31:BL:195:THR:O	2.03	0.76
18:B3:1227:C:OP1	32:BM:48:ARG:NH2	2.18	0.76
18:B3:1243:C:OP1	32:BM:42:ILE:CG2	2.32	0.76
18:B3:1300:G:C6	18:B3:1330:A:C2	2.74	0.76
18:B3:1385:G:H4'	43:BW:49:ARG:C	2.05	0.76
18:B3:2334:C:H1'	29:BJ:112:GLY:O	1.85	0.76
18:B3:2334:C:O4'	29:BJ:113:ILE:C	2.22	0.76
18:B3:2335:C:N3	29:BJ:116:ASP:HB3	1.56	0.76
18:B3:2347:C:C6	29:BJ:66:VAL:HG13	1.14	0.76
18:B3:2820:A:C1'	22:BC:89:VAL:CG1	2.56	0.76
21:BB:57:LEU:HD22	21:BB:76:ILE:CA	2.11	0.76
21:BB:82:HIS:CB	47:B9:62:THR:O	2.34	0.76
22:BC:18:ARG:HA	22:BC:18:ARG:CZ	2.15	0.76
22:BC:18:ARG:HA	22:BC:18:ARG:NH1	2.01	0.76
22:BC:274:ARG:HD3	22:BC:274:ARG:O	1.86	0.76
24:BE:146:LEU:CD1	24:BE:163:LEU:HB2	2.15	0.76
26:BG:105:LYS:HB2	26:BG:108:LEU:HD23	1.67	0.76
29:BJ:13:ILE:HD12	29:BJ:13:ILE:O	1.85	0.76
31:BL:158:ARG:NH1	31:BL:158:ARG:HB3	2.00	0.76
34:BO:79:LYS:HB2	34:BO:136:ASN:O	1.85	0.76
34:BO:81:VAL:HG22	34:BO:101:VAL:HG21	1.65	0.76
37:BR:30:GLY:HA3	37:BR:67:PRO:CG	2.15	0.76
39:BT:69:GLU:HA	39:BT:72:MET:SD	2.25	0.76
47:B9:47:LYS:HZ2	47:B9:48:ARG:HH11	1.33	0.76
1:AA:119:A:C2	1:AA:238:G:C2'	2.55	0.76
1:AA:239:U:C5	1:AA:240:C:C5	2.74	0.76
1:AA:861:G:H5'	8:AH:18:LYS:CE	2.16	0.76
1:AA:1222:G:P	17:AS:81:ARG:NH1	2.58	0.76
1:AA:1443:G:C5'	1:AA:1446:A:H5'	2.13	0.76
14:AN:37:ILE:HG22	14:AN:41:CYS:N	2.01	0.76
18:B3:107:U:C5'	44:BX:57:VAL:O	2.31	0.76
18:B3:663:C:C3'	23:BD:115:ASN:CG	2.32	0.76
18:B3:1164:U:P	30:BK:50:THR:C	2.63	0.76
18:B3:1191:G:N2	18:B3:1207:A:H1'	1.99	0.76
18:B3:1815:A:N7	18:B3:2733:U:O2	2.17	0.76
18:B3:2134:G:H22	18:B3:2241:C:N4	1.82	0.76
18:B3:2274:A:H2'	31:BL:80:TYR:HB3	1.66	0.76
18:B3:2350:G:C6	29:BJ:115:TYR:CD2	2.74	0.76
18:B3:2669:U:C4'	22:BC:130:THR:HA	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2819:C:O2'	22:BC:91:TYR:CD2	2.38	0.76
20:BA:108:ASN:OD1	20:BA:162:VAL:CG2	2.18	0.76
21:BB:224:ILE:HD13	21:BB:225:SER:H	1.50	0.76
22:BC:87:GLY:HA2	22:BC:104:VAL:HG21	1.68	0.76
23:BD:30:ARG:CZ	23:BD:31:PRO:HD2	2.15	0.76
25:BF:117:LYS:O	25:BF:122:THR:HG21	1.86	0.76
25:BF:164:ASP:HA	25:BF:179:SER:O	1.86	0.76
27:BH:71:VAL:CG2	32:BM:127:ARG:HH12	1.98	0.76
29:BJ:14:GLU:OE2	29:BJ:129:VAL:HG13	1.86	0.76
35:BP:109:ARG:HG2	35:BP:109:ARG:HH11	1.49	0.76
35:BP:117:HIS:HB2	35:BP:118:LEU:HD12	1.67	0.76
40:BU:13:ARG:HA	40:BU:16:ARG:NH2	2.00	0.76
40:BU:57:LEU:HD12	40:BU:57:LEU:O	1.85	0.76
42:B0:60:ASN:OD1	42:B0:63:THR:HB	1.84	0.76
1:AA:11:G:H1'	1:AA:525:C:H1'	1.67	0.76
1:AA:1302:U:OP1	13:AM:54:LEU:HB3	1.86	0.76
10:AJ:71:PRO:HD3	14:AN:36:ASN:OD1	1.83	0.76
13:AM:91:ASP:CA	13:AM:109:LEU:CA	2.53	0.76
17:AS:67:ALA:HB3	17:AS:68:PRO:HD3	1.68	0.76
18:B3:449:A:H5'	18:B3:1306:U:O4'	1.81	0.76
18:B3:618:G:N9	42:B0:46:PHE:O	2.18	0.76
18:B3:750:A:C4'	23:BD:116:GLU:HB2	2.15	0.76
18:B3:949:U:H4'	36:BQ:100:LYS:HA	1.68	0.76
18:B3:2382:A:H4'	46:BZ:12:LYS:HB3	1.67	0.76
18:B3:2457:U:H1'	46:BZ:81:GLN:HG3	1.65	0.76
18:B3:2721:U:O2	37:BR:83:LYS:NZ	2.18	0.76
18:B3:2806:C:O2'	22:BC:277:ILE:HD13	1.85	0.76
21:BB:113:SER:HB3	21:BB:168:ILE:HD11	1.66	0.76
21:BB:149:LEU:HD12	21:BB:153:ALA:CB	2.16	0.76
21:BB:173:ARG:NH2	21:BB:174:VAL:HG13	2.00	0.76
22:BC:255:HIS:HB3	22:BC:256:PRO:HD3	1.68	0.76
23:BD:30:ARG:CZ	23:BD:30:ARG:HA	2.14	0.76
23:BD:30:ARG:NH2	23:BD:31:PRO:HD2	2.01	0.76
23:BD:37:VAL:O	23:BD:234:LEU:HD23	1.86	0.76
23:BD:149:LEU:HD22	23:BD:246:PHE:CE2	2.20	0.76
23:BD:208:TYR:HD1	23:BD:248:ILE:HG21	1.48	0.76
24:BE:219:PHE:H	24:BE:221:GLU:HG3	1.50	0.76
27:BH:102:ASN:H	27:BH:113:GLU:CB	1.99	0.76
31:BL:168:LYS:HD2	31:BL:169:LYS:HZ2	1.50	0.76
33:BN:134:ARG:HA	33:BN:134:ARG:NH1	2.00	0.76
34:BO:64:VAL:O	34:BO:91:ALA:HB3	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:19:ASN:O	45:BY:20:ARG:HD2	1.85	0.76
45:BY:31:LYS:HB2	45:BY:31:LYS:HZ3	1.51	0.76
1:AA:190(F):G:C6	1:AA:266:G:OP2	2.38	0.76
1:AA:538:G:O2'	12:AL:140:LYS:NZ	2.18	0.76
1:AA:642:A:C8	8:AH:106:SER:HA	2.21	0.76
1:AA:754:C:H1'	15:AO:127:TYR:CG	2.19	0.76
1:AA:988:G:H3'	1:AA:1014:A:N7	1.98	0.76
1:AA:1219:U:C3'	17:AS:59:LYS:N	2.48	0.76
3:AB:122:VAL:HG12	3:AB:144:ALA:HB2	1.68	0.76
16:AQ:90:LEU:HB3	16:AQ:99:TYR:CZ	2.21	0.76
18:B3:72:C:O2'	44:BX:53:CYS:HB2	1.59	0.76
18:B3:948:G:C2	36:BQ:100:LYS:HD3	2.15	0.76
18:B3:1088:A:H4'	18:B3:1089:G:OP1	1.85	0.76
18:B3:1173:A:P	30:BK:40:LYS:NZ	2.59	0.76
18:B3:1370:G:C5	33:BN:24:SER:HB3	2.20	0.76
18:B3:1847:A:C8	21:BB:180:LYS:CB	2.66	0.76
18:B3:2166:G:C5	20:BA:61:PRO:HD3	2.21	0.76
18:B3:2545:U:C2'	22:BC:238:PRO:HG2	2.16	0.76
18:B3:2579:G:H5'	18:B3:2680:A:H5'	1.66	0.76
18:B3:2676:C:C5'	32:BM:73:ARG:CZ	2.62	0.76
18:B3:2718:C:P	22:BC:331:ARG:NH2	2.59	0.76
18:B3:2820:A:OP2	22:BC:101:LEU:CA	0.63	0.76
18:B3:2846:C:C5'	22:BC:174:LYS:HE3	2.16	0.76
18:B3:2846:C:HO2'	22:BC:172:GLN:CD	1.88	0.76
19:B4:37:C:O2	24:BE:154:THR:HG21	1.82	0.76
20:BA:90:LEU:HD21	20:BA:123:LEU:HB2	1.68	0.76
21:BB:203:MET:HB3	21:BB:207:ASP:OD2	1.85	0.76
22:BC:220:THR:H	22:BC:272:HIS:CB	1.97	0.76
24:BE:65:ILE:CD1	24:BE:75:LEU:HB3	2.16	0.76
25:BF:105:LEU:CB	25:BF:107:LEU:HD11	2.16	0.76
31:BL:72:ARG:HD3	31:BL:91:LEU:CD1	2.14	0.76
31:BL:132:ILE:HG22	31:BL:133:LEU:O	1.85	0.76
34:BO:62:VAL:HG21	34:BO:87:VAL:CA	2.16	0.76
35:BP:19:ARG:HD2	35:BP:20:LYS:N	2.01	0.76
37:BR:83:LYS:O	37:BR:94:TYR:HB3	1.85	0.76
40:BU:27:ARG:HA	40:BU:78:PHE:HE2	1.49	0.76
40:BU:100:HIS:CD2	40:BU:104:LEU:HD22	2.21	0.76
42:B0:41:VAL:HG13	42:B0:42:VAL:H	1.48	0.76
1:AA:119:A:N1	1:AA:238:G:H2'	1.99	0.76
1:AA:402:G:H4'	5:AD:144:PRO:HB2	1.67	0.76
1:AA:519:C:P	12:AL:67:ALA:HA	2.24	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:667:G:C1'	15:AO:109:ASP:OD1	2.33	0.76
1:AA:777:A:H4'	11:AK:125:THR:HA	1.68	0.76
1:AA:1309:G:C6	13:AM:95:GLY:CA	2.44	0.76
1:AA:1483:A:H2'	18:B3:2001:G:H1'	1.68	0.76
1:AA:1499:A:O5'	1:AA:1520:G:O2'	2.03	0.76
2:AT:108:HIS:CA	2:AT:536:LEU:CD2	2.64	0.76
3:AB:23:LEU:C	3:AB:47:ILE:HG12	2.06	0.76
3:AB:141:PRO:HD3	8:AH:68:LEU:HD21	0.81	0.76
5:AD:26:ALA:O	5:AD:30:LEU:HD23	1.86	0.76
7:AG:85:GLN:HG3	7:AG:93:THR:CB	2.15	0.76
9:AI:33:SER:HB2	9:AI:38:VAL:CG2	2.15	0.76
18:B3:26:U:H2'	18:B3:1319:G:H2'	0.77	0.76
18:B3:672:G:N3	23:BD:226:THR:O	2.17	0.76
18:B3:777:U:HO2'	45:BY:10:ARG:HG2	1.47	0.76
18:B3:1353:C:P	23:BD:49:TYR:OH	2.42	0.76
18:B3:1713:G:O2'	18:B3:2745:C:C2'	2.33	0.76
18:B3:1811:A:C6	18:B3:2730:G:C2	2.72	0.76
18:B3:2663:U:C2	18:B3:2816:A:C6	2.73	0.76
19:B4:96:C:N3	25:BF:220:LYS:HE2	2.01	0.76
21:BB:31:LEU:HD22	21:BB:36:ARG:CG	2.15	0.76
23:BD:37:VAL:HG23	23:BD:234:LEU:HD23	1.67	0.76
24:BE:75:LEU:HD12	24:BE:113:LEU:CD1	2.15	0.76
25:BF:151:GLY:HA3	25:BF:162:LEU:HD21	1.66	0.76
28:BI:31:ILE:HD12	28:BI:69:ARG:HE	1.49	0.76
29:BJ:31:ARG:HB3	29:BJ:34:LYS:HE3	1.68	0.76
29:BJ:68:VAL:HG12	29:BJ:69:THR:H	1.49	0.76
32:BM:26:LEU:HD22	32:BM:97:ALA:HB1	1.66	0.76
32:BM:38:GLU:OE2	32:BM:39:GLU:HG3	1.85	0.76
32:BM:79:PHE:CZ	32:BM:103:VAL:HB	2.20	0.76
33:BN:104:LYS:O	33:BN:106:LEU:HD13	1.85	0.76
40:BU:52:ARG:HA	40:BU:70:ILE:CG2	2.15	0.76
1:AA:5:U:O2	5:AD:88:GLU:O	2.03	0.76
1:AA:61:G:O2'	1:AA:387:U:C5'	2.29	0.76
1:AA:121:C:OP1	1:AA:235:C:OP2	2.03	0.76
1:AA:1130:A:H4'	9:AI:65:ARG:HH22	1.49	0.76
1:AA:1299:A:HO2'	13:AM:30:TYR:HB2	1.38	0.76
1:AA:1503:A:C5'	1:AA:1530:G:N3	2.45	0.76
10:AJ:37:VAL:HG11	10:AJ:112:VAL:HG21	1.68	0.76
18:B3:78:G:C1'	40:BU:25:SER:OG	2.33	0.76
18:B3:107:U:C2'	44:BX:56:THR:HA	2.15	0.76
18:B3:620:A:C3'	42:B0:40:SER:HB3	2.13	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:621:C:OP2	42:B0:38:ILE:HG22	1.86	0.76
18:B3:1206:C:HO2'	18:B3:1207:A:C4'	1.97	0.76
18:B3:1370:G:N1	33:BN:25:PHE:O	2.19	0.76
18:B3:1380:U:H3'	43:BW:25:LYS:HZ1	1.48	0.76
18:B3:1652:C:C5	21:BB:174:VAL:HG22	2.21	0.76
18:B3:1654:U:OP2	21:BB:49:HIS:CE1	2.39	0.76
18:B3:1788:U:H3'	18:B3:2882:G:C5'	2.14	0.76
18:B3:1806:G:C2	18:B3:2884:G:C8	2.73	0.76
18:B3:1815:A:C8	18:B3:2733:U:C2	2.69	0.76
18:B3:2734:G:C5'	35:BP:79:LYS:HD3	2.16	0.76
21:BB:53:ARG:HD2	21:BB:55:ALA:H	1.49	0.76
21:BB:103:LEU:CD1	21:BB:135:ILE:HD12	2.15	0.76
21:BB:115:VAL:CG2	21:BB:125:LEU:HB2	2.16	0.76
21:BB:226:ARG:NH1	21:BB:227:GLY:HA3	2.01	0.76
22:BC:348:LYS:HD3	22:BC:348:LYS:H	1.50	0.76
24:BE:23:ARG:HH22	24:BE:26:GLY:HA2	1.50	0.76
24:BE:43:LYS:HG2	24:BE:44:TYR:HD1	1.51	0.76
24:BE:64:ILE:HD11	24:BE:144:VAL:HG21	1.68	0.76
24:BE:116:ASP:O	24:BE:118:THR:HG23	1.85	0.76
25:BF:160:VAL:HB	25:BF:161:PRO:HD3	1.65	0.76
29:BJ:32:ALA:H	29:BJ:34:LYS:CE	1.99	0.76
30:BK:125:LEU:HD13	30:BK:125:LEU:O	1.85	0.76
36:BQ:30:TYR:HA	36:BQ:93:VAL:CG2	2.15	0.76
37:BR:33:ASN:OD1	37:BR:64:LYS:HB2	1.86	0.76
37:BR:92:PHE:HE1	38:BS:20:LEU:HD21	1.45	0.76
1:AA:319:G:C2	1:AA:1434:A:N3	2.54	0.76
1:AA:978:A:O2'	17:AS:81:ARG:CG	2.34	0.76
1:AA:979:C:C2	17:AS:56:PHE:CE2	2.73	0.76
1:AA:1320:C:H42	17:AS:116:LEU:CB	1.79	0.76
2:AT:29:ASP:CB	18:B3:2693:U:OP1	2.34	0.76
2:AT:149:GLU:O	2:AT:352:ARG:NH1	2.18	0.76
4:AC:98:VAL:HA	4:AC:170:ALA:HB1	1.68	0.76
5:AD:90:LYS:CB	6:AE:172:PRO:HB2	2.16	0.76
18:B3:26:U:C1'	18:B3:1319:G:H2'	2.15	0.76
18:B3:326:G:N1	18:B3:330:C:H5	1.83	0.76
18:B3:472:A:C3'	45:BY:48:TRP:CH2	2.54	0.76
18:B3:677:C:H4'	23:BD:256:LYS:HE2	0.79	0.76
18:B3:815:U:O3'	18:B3:1598:A:C4'	2.28	0.76
18:B3:1024:G:O2'	25:BF:104:LEU:HG	1.85	0.76
18:B3:1382:G:O2'	43:BW:26:LYS:CD	2.32	0.76
18:B3:1793:C:O3'	35:BP:97:ARG:CD	2.26	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2242:U:O4	18:B3:2257:G:C6	2.39	0.76
18:B3:2468:A:C4	46:BZ:55:PRO:CG	2.60	0.76
18:B3:2520:G:H5"	28:BI:160:PRO:CB	2.15	0.76
18:B3:2575:C:H4'	18:B3:2775:A:O2'	1.86	0.76
18:B3:2578:G:C1'	18:B3:2801:A:H5"	2.16	0.76
18:B3:2838:A:OP1	22:BC:221:LYS:HA	1.86	0.76
19:B4:6:C:H1'	24:BE:72:ASP:CG	2.06	0.76
20:BA:77:ALA:HB1	20:BA:82:VAL:CG2	2.16	0.76
20:BA:109:ALA:HA	20:BA:161:LYS:CB	2.07	0.76
22:BC:83:VAL:HG13	22:BC:162:HIS:O	1.86	0.76
22:BC:354:SER:C	22:BC:355:LEU:HD13	2.07	0.76
24:BE:107:ARG:HG3	24:BE:226:TYR:CE1	2.20	0.76
24:BE:110:LEU:HD23	24:BE:171:LEU:N	1.99	0.76
26:BG:113:ALA:HB1	26:BG:151:LEU:CD2	2.16	0.76
27:BH:61:GLY:O	27:BH:65:VAL:HG23	1.86	0.76
27:BH:63:LYS:CD	32:BM:129:LYS:CB	1.87	0.76
28:BI:50:VAL:CG2	28:BI:137:SER:HB2	2.16	0.76
29:BJ:84:LYS:HB2	29:BJ:167:ASP:OD2	1.86	0.76
29:BJ:91:ARG:NE	29:BJ:159:VAL:HG21	2.01	0.76
31:BL:60:ILE:HD13	31:BL:60:ILE:H	1.50	0.76
32:BM:119:VAL:HG22	32:BM:120:PRO:HD2	1.68	0.76
32:BM:141:SER:HA	32:BM:144:VAL:CG1	2.15	0.76
33:BN:63:ASN:CB	33:BN:66:ILE:HG12	2.14	0.76
34:BO:88:THR:C	34:BO:110:ALA:HB2	2.06	0.76
34:BO:122:ILE:CD1	34:BO:124:LEU:H	1.99	0.76
35:BP:95:ILE:HD13	35:BP:95:ILE:H	1.50	0.76
37:BR:83:LYS:HE2	37:BR:83:LYS:HA	1.68	0.76
40:BU:100:HIS:CD2	40:BU:104:LEU:HD13	2.20	0.76
45:BY:15:HIS:CD2	45:BY:24:ARG:HG3	2.21	0.76
1:AA:119:A:H5"	1:AA:122:G:N7	2.00	0.76
1:AA:449:C:C4'	5:AD:131:GLN:O	2.34	0.76
1:AA:599:C:H4'	8:AH:121:SER:HB2	0.86	0.76
1:AA:994:A:N7	1:AA:1046:A:C2	2.54	0.76
1:AA:1306:A:O2'	13:AM:144:ARG:CG	2.34	0.76
3:AB:141:PRO:CG	8:AH:68:LEU:HD22	2.11	0.76
3:AB:169:ILE:HB	3:AB:173:TRP:CZ3	2.20	0.76
4:AC:98:VAL:HA	4:AC:170:ALA:CB	2.16	0.76
6:AE:115:LYS:HD2	6:AE:126:ALA:O	1.85	0.76
17:AS:58:LYS:HD3	17:AS:80:MET:HE2	1.68	0.76
18:B3:72:C:C5'	44:BX:49:LYS:HZ3	1.96	0.76
18:B3:638:C:H5'	42:B0:27:ARG:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:677:C:C5'	23:BD:232:LEU:O	2.33	0.76
18:B3:1006:A:H5'	28:BI:16:PRO:CB	2.15	0.76
18:B3:1067:A:H5'	25:BF:96:PRO:CG	2.16	0.76
18:B3:1360:C:H2'	23:BD:93:CYS:O	1.85	0.76
18:B3:1371:U:C5'	33:BN:66:ILE:HD13	2.13	0.76
18:B3:1529:G:H5"	21:BB:69:ARG:HH11	1.50	0.76
18:B3:1653:A:C8	21:BB:186:HIS:HD2	2.04	0.76
18:B3:2345:A:O5'	29:BJ:22:VAL:CG1	2.32	0.76
18:B3:2413:A:C2	24:BE:145:PHE:HD2	2.04	0.76
18:B3:2652:U:H2'	22:BC:257:ALA:HB3	0.77	0.76
19:B4:50:G:C5'	24:BE:94:ASN:CB	2.38	0.76
21:BB:16:THR:C	21:BB:192:ARG:HG2	2.06	0.76
21:BB:147:VAL:HG22	21:BB:155:LYS:O	1.85	0.76
23:BD:64:TRP:HZ3	23:BD:67:GLY:HA3	1.50	0.76
23:BD:134:VAL:HG21	23:BD:147:ILE:HG12	1.68	0.76
25:BF:163:SER:O	25:BF:167:ILE:HG13	1.86	0.76
25:BF:167:ILE:CG2	25:BF:168:ILE:HD12	2.10	0.76
27:BH:92:TYR:HA	27:BH:179:ILE:HG22	1.67	0.76
28:BI:103:LEU:HB2	28:BI:118:ALA:H	1.49	0.76
29:BJ:20:ILE:CG2	29:BJ:65:ALA:HB3	2.14	0.76
32:BM:4:PRO:HB3	32:BM:7:VAL:CG2	2.16	0.76
32:BM:14:LEU:HB3	32:BM:17:ARG:HE	1.49	0.76
32:BM:85:GLY:O	32:BM:86:MET:HE2	1.86	0.76
32:BM:93:ARG:NH2	32:BM:94:GLY:HA2	2.01	0.76
35:BP:17:GLY:H	35:BP:20:LYS:CE	1.99	0.76
37:BR:40:LYS:HD3	37:BR:57:MET:HB3	1.65	0.76
44:BX:31:LEU:HD13	44:BX:44:ILE:HB	1.68	0.76
46:BZ:64:THR:OG1	46:BZ:86:ARG:HB3	1.85	0.76
1:AA:20:U:C5'	1:AA:573:A:N6	2.45	0.75
1:AA:45:U:OP1	1:AA:308:C:H5'	1.86	0.75
1:AA:1406:U:N1	1:AA:1518:A:C5'	2.46	0.75
4:AC:17:TYR:CE1	4:AC:38:VAL:HB	2.21	0.75
7:AG:189:ILE:HG22	7:AG:193:LEU:CD1	2.16	0.75
8:AH:52:ILE:HG21	8:AH:61:VAL:CG2	2.16	0.75
9:AI:124:GLU:OE2	9:AI:134:ARG:HD3	1.86	0.75
12:AL:139:LYS:O	12:AL:144:ARG:HD2	1.86	0.75
15:AO:91:ILE:O	15:AO:95:VAL:HG23	1.86	0.75
18:B3:448:G:N3	23:BD:47:GLN:HG3	2.01	0.75
18:B3:449:A:O4'	18:B3:1306:U:C4	2.40	0.75
18:B3:449:A:O4'	18:B3:1306:U:N3	2.19	0.75
18:B3:1059:G:N7	18:B3:2491:G:H1'	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1344:G:C4	23:BD:187:ARG:CZ	2.62	0.75
18:B3:1671:U:H4'	39:BT:92:TYR:CE1	2.20	0.75
18:B3:1761:U:C1'	35:BP:80:ARG:CZ	2.63	0.75
18:B3:2123:A:C5'	31:BL:88:VAL:HG21	2.15	0.75
18:B3:2350:G:C6	29:BJ:115:TYR:CG	2.74	0.75
18:B3:2459:G:OP1	46:BZ:86:ARG:CZ	2.33	0.75
18:B3:2862:G:O5'	22:BC:364:PHE:HZ	1.69	0.75
19:B4:49:G:N9	24:BE:94:ASN:HA	1.54	0.75
19:B4:87:U:P	25:BF:219:PHE:CE1	2.59	0.75
22:BC:33:LYS:HD3	22:BC:34:ASP:N	2.01	0.75
22:BC:45:PHE:HE1	22:BC:81:PRO:HB3	1.51	0.75
24:BE:22:ARG:HA	24:BE:22:ARG:NH1	2.01	0.75
26:BG:116:ALA:HB2	26:BG:217:ILE:HB	1.68	0.75
27:BH:41:ILE:HG23	32:BM:128:LEU:HD11	1.66	0.75
27:BH:90:MET:O	27:BH:144:ILE:HG22	1.85	0.75
28:BI:52:LEU:HD11	28:BI:137:SER:HA	1.67	0.75
29:BJ:36:LEU:HD22	29:BJ:67:HIS:CD2	2.21	0.75
32:BM:92:ALA:H	32:BM:95:LYS:HZ3	1.34	0.75
36:BQ:75:ILE:CG2	36:BQ:89:LEU:HB3	2.15	0.75
37:BR:26:ALA:HB1	37:BR:115:THR:O	1.85	0.75
43:BW:68:TYR:CE2	43:BW:69:ARG:HB2	2.20	0.75
47:B9:41:CYS:O	47:B9:43:LYS:HD2	1.86	0.75
47:B9:54:TRP:HZ2	47:B9:65:GLY:HA3	1.50	0.75
1:AA:120:A:C2	1:AA:122:G:N1	2.53	0.75
1:AA:403:C:H5'	1:AA:620:C:C2	2.21	0.75
1:AA:579:G:H5'	1:AA:728:A:H1'	1.68	0.75
1:AA:1328:C:H2'	13:AM:96:LYS:HB3	1.68	0.75
6:AE:145:THR:HG22	6:AE:146:ASN:H	1.50	0.75
7:AG:85:GLN:HB2	7:AG:88:ILE:O	1.86	0.75
13:AM:15:LEU:HD23	13:AM:66:LEU:HD11	1.67	0.75
15:AO:86:ASP:HA	15:AO:89:TYR:CD2	2.20	0.75
15:AO:91:ILE:HD11	15:AO:92:LYS:NZ	2.01	0.75
18:B3:80:A:C5'	40:BU:74:TYR:OH	2.34	0.75
18:B3:495:A:O5'	18:B3:1390:A:N3	2.10	0.75
18:B3:539:G:OP1	42:B0:23:ASP:CB	2.30	0.75
18:B3:656:G:O2'	23:BD:33:ILE:HD11	1.86	0.75
18:B3:656:G:OP2	34:BO:56:LYS:NZ	2.19	0.75
18:B3:751:U:C5'	23:BD:36:THR:CG2	2.62	0.75
18:B3:1054:G:C5	28:BI:111:LEU:HD11	2.22	0.75
18:B3:1164:U:OP1	30:BK:51:LYS:N	2.19	0.75
18:B3:1743:G:O2'	37:BR:17:LEU:HD11	1.85	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1808:C:O2	18:B3:2732:U:OP1	2.03	0.75
18:B3:1939:U:C5'	21:BB:241:ARG:HG3	2.16	0.75
18:B3:2300:A:O2'	36:BQ:10:ARG:NH2	2.18	0.75
18:B3:2335:C:C5'	29:BJ:111:LEU:HB3	1.96	0.75
18:B3:2819:C:C3'	22:BC:100:SER:CA	2.64	0.75
19:B4:47:A:O3'	24:BE:160:PHE:CD2	2.37	0.75
20:BA:100:ILE:O	20:BA:100:ILE:HD13	1.86	0.75
22:BC:115:ARG:HG3	22:BC:173:LYS:HZ3	1.51	0.75
22:BC:229:THR:CA	22:BC:234:THR:HG22	2.14	0.75
22:BC:259:VAL:HG22	22:BC:261:TRP:CA	2.16	0.75
23:BD:137:ARG:HG2	23:BD:245:ARG:NH2	2.01	0.75
23:BD:180:VAL:HG12	23:BD:181:LEU:H	1.51	0.75
26:BG:108:LEU:HD22	26:BG:108:LEU:H	1.49	0.75
26:BG:212:LYS:HE2	26:BG:213:LEU:HD23	1.69	0.75
27:BH:47:LYS:H	27:BH:55:VAL:HG21	1.51	0.75
28:BI:146:ASP:HB2	28:BI:149:VAL:CG2	2.16	0.75
33:BN:85:LYS:HA	33:BN:85:LYS:HE3	1.66	0.75
39:BT:132:LEU:O	39:BT:134:ILE:HG22	1.85	0.75
40:BU:113:LYS:H	40:BU:116:LYS:HE2	1.50	0.75
42:B0:87:MET:HB2	42:B0:117:ILE:CA	2.09	0.75
46:BZ:2:ASN:HB3	46:BZ:91:GLU:CG	2.15	0.75
46:BZ:78:THR:O	46:BZ:79:ARG:HG2	1.85	0.75
1:AA:125:U:OP1	1:AA:291:C:H1'	1.85	0.75
1:AA:187:C:OP1	1:AA:258:G:OP2	2.03	0.75
1:AA:779:C:H4'	11:AK:132:ARG:C	2.05	0.75
1:AA:921:U:OP1	1:AA:1081:G:O3'	2.04	0.75
1:AA:979:C:H4'	17:AS:80:MET:HA	1.68	0.75
1:AA:1297:C:H6	13:AM:53:ASP:CB	2.00	0.75
2:AT:463:LEU:N	2:AT:513:LYS:NZ	2.34	0.75
2:AT:464:LEU:CD2	2:AT:510:ARG:CG	2.44	0.75
3:AB:60:ALA:HA	3:AB:63:ILE:HD12	1.66	0.75
3:AB:63:ILE:O	3:AB:67:PRO:HD2	1.87	0.75
4:AC:137:VAL:HG22	4:AC:183:ILE:HD11	1.69	0.75
5:AD:116:LEU:HB2	5:AD:118:LEU:HD23	1.68	0.75
5:AD:175:ARG:HG2	5:AD:191:ALA:HA	1.66	0.75
9:AI:98:GLU:HB2	9:AI:102:ASN:O	1.86	0.75
10:AJ:52:LYS:CE	10:AJ:93:LEU:HD13	2.16	0.75
17:AS:56:PHE:HB2	17:AS:80:MET:CG	2.16	0.75
18:B3:270:U:OP1	18:B3:273:G:C1'	2.33	0.75
18:B3:745:G:O6	34:BO:65:SER:CB	2.32	0.75
18:B3:1311:G:O6	23:BD:185:LYS:HB3	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1806:G:N3	18:B3:2884:G:C8	2.55	0.75
18:B3:2123:A:H4'	31:BL:88:VAL:HG21	1.68	0.75
18:B3:2434:A:OP1	46:BZ:35:PHE:CZ	2.37	0.75
18:B3:2437:A:H4'	46:BZ:14:LYS:HB2	1.68	0.75
18:B3:2560:C:O3'	18:B3:2777:G:O2'	2.05	0.75
20:BA:41:TYR:OH	20:BA:163:LEU:HA	1.86	0.75
20:BA:51:GLY:C	20:BA:54:LYS:HB3	2.06	0.75
20:BA:63:MET:HE1	20:BA:159:LEU:O	1.87	0.75
23:BD:133:LEU:HD12	23:BD:136:ALA:CB	2.16	0.75
24:BE:64:ILE:HG23	24:BE:75:LEU:HD23	1.68	0.75
24:BE:96:ALA:HB2	24:BE:200:PHE:O	1.85	0.75
25:BF:95:PRO:HG2	25:BF:98:PRO:CG	2.15	0.75
25:BF:102:LEU:C	25:BF:105:LEU:HD23	2.06	0.75
25:BF:107:LEU:HD12	25:BF:114:THR:CG2	2.16	0.75
32:BM:53:TYR:H	32:BM:58:ARG:CG	1.98	0.75
35:BP:51:LYS:HA	35:BP:51:LYS:CE	2.15	0.75
41:BV:71:VAL:HA	41:BV:110:LYS:HD2	1.68	0.75
41:BV:81:ILE:HG21	41:BV:95:LYS:CD	2.17	0.75
42:B0:105:ARG:O	42:B0:109:LEU:HD23	1.86	0.75
1:AA:675:A:C8	11:AK:120:VAL:CG1	2.62	0.75
1:AA:1176:A:C1'	9:AI:108:PHE:CD1	2.69	0.75
1:AA:1223:C:H5"	17:AS:100:LYS:CE	2.17	0.75
1:AA:1319:A:O4'	17:AS:49:MET:SD	2.44	0.75
3:AB:145:LEU:CD2	3:AB:172:ILE:HD13	2.17	0.75
7:AG:138:ASN:HD21	7:AG:202:LYS:HB2	1.52	0.75
7:AG:164:LEU:O	7:AG:167:VAL:HG22	1.87	0.75
12:AL:124:VAL:HB	12:AL:133:LEU:HD11	1.69	0.75
13:AM:94:ASP:OD2	13:AM:134:ARG:NH2	2.19	0.75
18:B3:500:G:C2	33:BN:96:ASN:ND2	2.54	0.75
18:B3:540:A:H62	42:B0:50:ILE:CD1	1.90	0.75
18:B3:920:C:C5'	41:BV:39:HIS:O	2.22	0.75
18:B3:1103:C:O2	32:BM:86:MET:HG2	1.84	0.75
18:B3:1227:C:OP1	18:B3:1244:U:O4	2.05	0.75
18:B3:1415:G:H5'	45:BY:13:LYS:NZ	2.02	0.75
18:B3:1676:G:H5"	39:BT:115:PRO:CA	1.97	0.75
18:B3:1815:A:O2'	18:B3:2746:A:N9	2.17	0.75
18:B3:2123:A:O5'	31:BL:88:VAL:HG23	1.85	0.75
18:B3:2560:C:C5'	27:BH:168:ARG:CD	2.28	0.75
19:B4:51:A:N9	24:BE:58:LYS:HB3	1.70	0.75
20:BA:16:LEU:HD11	20:BA:208:SER:H	1.50	0.75
21:BB:62:PHE:HB2	21:BB:64:ASP:O	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:97:VAL:HG23	21:BB:165:ILE:CG2	2.17	0.75
21:BB:218:ILE:HD12	21:BB:218:ILE:O	1.85	0.75
22:BC:118:TYR:CD2	22:BC:132:TYR:HA	2.22	0.75
22:BC:220:THR:HG22	22:BC:271:TYR:C	2.06	0.75
23:BD:186:LEU:CA	23:BD:199:THR:HA	2.16	0.75
26:BG:117:GLU:CG	26:BG:213:LEU:HD13	2.16	0.75
27:BH:34:LEU:CD1	27:BH:150:SER:HB3	2.16	0.75
32:BM:26:LEU:HD11	32:BM:97:ALA:O	1.87	0.75
35:BP:63:ARG:HD3	35:BP:63:ARG:N	1.99	0.75
41:BV:81:ILE:HG13	41:BV:95:LYS:CD	2.17	0.75
42:B0:25:TYR:O	42:B0:28:VAL:HG22	1.86	0.75
1:AA:25:C:O3'	12:AL:109:ARG:CD	2.31	0.75
1:AA:132:C:P	1:AA:264:U:H5'	2.25	0.75
1:AA:615:C:H6	5:AD:149:ARG:HD3	1.52	0.75
1:AA:619:U:O3'	5:AD:129:ILE:HD13	1.82	0.75
1:AA:754:C:H4'	15:AO:127:TYR:CD1	2.21	0.75
1:AA:1502:A:H2	1:AA:1505:G:N1	1.84	0.75
2:AT:378:LEU:H	2:AT:471:THR:HG22	1.49	0.75
2:AT:693:LEU:HB3	2:AT:700:ARG:HD2	1.68	0.75
3:AB:119:LEU:CD1	3:AB:141:PRO:HB2	2.17	0.75
7:AG:206:THR:O	7:AG:210:ILE:HD13	1.86	0.75
9:AI:30:VAL:HG23	9:AI:66:VAL:CG1	2.16	0.75
12:AL:100:ASP:HB3	12:AL:132:LEU:HB2	1.66	0.75
18:B3:242:A:O3'	31:BL:2:ALA:HB2	1.86	0.75
18:B3:664:U:C5'	23:BD:114:HIS:HB2	2.14	0.75
18:B3:953:G:H2'	36:BQ:13:TYR:CD1	2.20	0.75
18:B3:967:U:O4'	28:BI:34:TYR:CE2	2.14	0.75
18:B3:1055:G:N2	28:BI:108:ALA:HB2	2.02	0.75
18:B3:1310:U:OP2	23:BD:180:VAL:C	2.25	0.75
18:B3:1312:G:N1	23:BD:186:LEU:CD1	2.03	0.75
18:B3:2215:A:C5'	20:BA:107:TYR:CE1	2.64	0.75
18:B3:2216:A:OP2	20:BA:64:SER:OG	2.01	0.75
21:BB:177:PRO:HB2	21:BB:179:LEU:CD1	2.16	0.75
24:BE:135:VAL:HG12	24:BE:136:GLU:O	1.87	0.75
25:BF:143:ILE:O	25:BF:147:VAL:HG13	1.86	0.75
25:BF:168:ILE:HG12	25:BF:177:ILE:N	2.02	0.75
27:BH:101:VAL:HA	27:BH:113:GLU:HB2	1.66	0.75
32:BM:11:LYS:CB	32:BM:36:ARG:HD2	2.16	0.75
37:BR:54:LEU:HB2	37:BR:85:TRP:CH2	2.21	0.75
42:B0:16:LYS:HD2	42:B0:16:LYS:H	1.52	0.75
42:B0:87:MET:HG3	42:B0:118:LYS:N	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:119:A:H2	1:AA:238:G:H2'	0.98	0.75
1:AA:666:G:H21	15:AO:109:ASP:CG	1.88	0.75
1:AA:754:C:C1'	15:AO:127:TYR:CG	2.69	0.75
1:AA:1071:C:OP1	6:AE:90:ARG:O	2.03	0.75
1:AA:1086:U:H4'	1:AA:1389:C:C4'	2.17	0.75
1:AA:1141:C:H2'	1:AA:1142:G:H8	1.51	0.75
1:AA:1222:G:O2'	17:AS:100:LYS:HD2	1.86	0.75
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.52	0.75
2:AT:137:VAL:C	2:AT:481:MET:HG3	2.06	0.75
5:AD:174:ARG:HB3	5:AD:175:ARG:NH1	2.02	0.75
7:AG:85:GLN:CG	7:AG:93:THR:HB	2.16	0.75
7:AG:187:LYS:O	7:AG:187:LYS:HD2	1.85	0.75
7:AG:202:LYS:HA	7:AG:205:SER:CB	2.16	0.75
9:AI:21:VAL:CG1	9:AI:62:ILE:HG23	2.17	0.75
10:AJ:58:LEU:HG	10:AJ:90:TYR:CD2	2.21	0.75
11:AK:56:PRO:HD3	11:AK:88:THR:CB	2.16	0.75
14:AN:37:ILE:CG2	14:AN:40:GLN:HB2	2.17	0.75
18:B3:82:C:C2'	40:BU:75:ARG:NH1	2.49	0.75
18:B3:618:G:H1'	42:B0:49:ASN:CB	2.15	0.75
18:B3:1163:G:C8	30:BK:51:LYS:HG3	2.09	0.75
18:B3:1334:C:H3'	42:B0:98:HIS:O	1.86	0.75
18:B3:1861:C:C3'	21:BB:7:GLN:HA	2.16	0.75
18:B3:2093:G:OP1	22:BC:250:CYS:CA	2.32	0.75
18:B3:2345:A:H4'	29:BJ:48:LYS:NZ	2.01	0.75
18:B3:2552:C:C3'	18:B3:2553:A:H5'	2.16	0.75
18:B3:2827:A:OP2	22:BC:122:TYR:C	2.25	0.75
18:B3:2878:U:H2'	18:B3:2879:A:O4'	1.86	0.75
20:BA:32:VAL:HG11	20:BA:179:LEU:HD21	1.67	0.75
21:BB:222:SER:O	21:BB:236:LEU:HD13	1.86	0.75
22:BC:52:MET:HA	22:BC:52:MET:CE	2.17	0.75
22:BC:310:PHE:CZ	22:BC:363:LYS:HB3	2.20	0.75
26:BG:117:GLU:CG	26:BG:213:LEU:HD22	2.17	0.75
26:BG:198:ALA:O	26:BG:199:LEU:HD13	1.87	0.75
28:BI:140:THR:CG2	28:BI:141:LYS:HD2	2.17	0.75
31:BL:187:ARG:HB3	31:BL:187:ARG:NH1	2.00	0.75
35:BP:21:VAL:HA	35:BP:51:LYS:HB2	1.69	0.75
37:BR:64:LYS:HD3	37:BR:65:GLY:H	1.51	0.75
42:B0:73:THR:HG22	42:B0:93:ALA:CB	2.17	0.75
43:BW:17:LYS:HB2	43:BW:27:ARG:HD2	1.69	0.75
43:BW:35:ILE:HD12	43:BW:36:LYS:N	2.01	0.75
1:AA:66:G:C5	1:AA:69:G:O6	2.39	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:255:G:C4'	16:AQ:80:HIS:O	2.34	0.75
1:AA:362:G:O2'	12:AL:78:LYS:CA	2.34	0.75
1:AA:404:U:C2	5:AD:19:TYR:HE2	2.01	0.75
1:AA:1281:U:H5'	1:AA:1282:C:C5	2.22	0.75
1:AA:1309:G:N7	13:AM:92:ILE:CG2	0.84	0.75
8:AH:33:ILE:O	8:AH:33:ILE:HD13	1.87	0.75
8:AH:54:ASP:HB2	8:AH:59:LYS:HD2	1.68	0.75
9:AI:98:GLU:HA	9:AI:106:LYS:H	1.51	0.75
15:AO:90:LEU:HB3	15:AO:121:ILE:HD11	1.69	0.75
16:AQ:74:VAL:HG21	16:AQ:116:VAL:CG2	2.15	0.75
18:B3:35:U:H5"	23:BD:104:THR:HB	1.69	0.75
18:B3:35:U:C5'	23:BD:104:THR:CB	2.65	0.75
18:B3:391:U:O2'	31:BL:195:THR:HG22	1.85	0.75
18:B3:877:G:H5'	18:B3:878:G:OP1	1.86	0.75
18:B3:1181:A:C4'	30:BK:109:ILE:CG1	2.62	0.75
18:B3:1181:A:C5'	30:BK:143:VAL:HG21	1.67	0.75
18:B3:1285:U:C4'	25:BF:155:ILE:CG1	2.50	0.75
18:B3:1428:C:H5"	33:BN:124:GLN:CD	2.06	0.75
18:B3:2050:G:N7	33:BN:82:TRP:CZ3	2.53	0.75
18:B3:2404:G:C8	36:BQ:69:LYS:NZ	2.54	0.75
18:B3:2560:C:H3'	27:BH:168:ARG:HG3	1.68	0.75
18:B3:2566:A:H5'	27:BH:174:LYS:HZ1	1.52	0.75
18:B3:2840:A:OP1	22:BC:224:GLY:CA	2.34	0.75
20:BA:43:PRO:HD2	20:BA:132:GLY:CA	2.13	0.75
21:BB:187:LYS:NZ	21:BB:190:LEU:HD13	2.02	0.75
22:BC:92:VAL:HB	22:BC:101:LEU:HD21	1.68	0.75
23:BD:30:ARG:CG	23:BD:33:ILE:HD13	2.16	0.75
23:BD:75:ARG:CD	23:BD:80:GLY:HA2	2.16	0.75
23:BD:256:LYS:CB	23:BD:259:GLN:HB3	2.16	0.75
24:BE:115:LEU:HD22	24:BE:171:LEU:HD13	1.67	0.75
25:BF:168:ILE:HG23	25:BF:175:TYR:HB2	1.67	0.75
26:BG:116:ALA:HA	26:BG:177:ALA:CB	2.17	0.75
28:BI:76:MET:O	28:BI:79:VAL:HG12	1.87	0.75
29:BJ:16:LEU:CD1	29:BJ:70:VAL:HG11	2.14	0.75
33:BN:41:THR:HA	33:BN:44:GLN:HG2	1.68	0.75
33:BN:82:TRP:HB2	33:BN:83:PRO:HA	1.67	0.75
33:BN:85:LYS:HA	33:BN:88:LYS:HZ1	1.50	0.75
34:BO:62:VAL:CG2	34:BO:87:VAL:HA	2.15	0.75
43:BW:11:TYR:CE1	43:BW:72:LEU:HD13	2.22	0.75
47:B9:68:TYR:HD2	47:B9:69:THR:HG23	1.51	0.75
1:AA:19:C:H1'	1:AA:572:A:C5	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:131:C:O3'	1:AA:264:U:C4'	2.35	0.75
1:AA:239:U:H1'	1:AA:288:A:N3	2.00	0.75
1:AA:537:G:H5"	12:AL:143:PRO:HG3	0.75	0.75
1:AA:779:C:P	11:AK:132:ARG:HB3	2.25	0.75
1:AA:913:A:P	12:AL:62:LYS:HZ2	2.08	0.75
1:AA:947:G:H5"	13:AM:143:ARG:HH22	0.93	0.75
1:AA:949:A:H3'	13:AM:141:THR:HG1	1.49	0.75
1:AA:1225:A:C2	17:AS:126:VAL:O	2.39	0.75
2:AT:464:LEU:HB2	2:AT:513:LYS:CG	2.16	0.75
9:AI:96:VAL:HG13	9:AI:104:LEU:HB3	1.69	0.75
12:AL:128:SER:HB2	12:AL:130:VAL:HG23	1.68	0.75
14:AN:25:SER:O	14:AN:29:LEU:HD11	1.87	0.75
18:B3:944:G:H1'	25:BF:100:LYS:NZ	2.01	0.75
18:B3:1163:G:H5'	30:BK:54:LYS:CB	2.17	0.75
18:B3:1167:G:C4'	30:BK:111:GLU:CA	2.56	0.75
18:B3:1652:C:C5	21:BB:174:VAL:CG2	2.69	0.75
18:B3:1695:G:H1'	45:BY:5:PRO:HB2	1.68	0.75
18:B3:2052:U:OP2	33:BN:23:VAL:CG2	2.35	0.75
18:B3:2337:G:N3	29:BJ:127:TYR:CB	2.29	0.75
18:B3:2408:A:N9	46:BZ:19:HIS:NE2	2.34	0.75
18:B3:2709:G:O3'	37:BR:9:THR:HB	1.85	0.75
18:B3:2912:C:N4	22:BC:125:LYS:HA	1.99	0.75
19:B4:68:G:H1'	24:BE:12:TYR:C	2.04	0.75
19:B4:117:G:N3	24:BE:69:ILE:O	2.19	0.75
21:BB:179:LEU:CD1	47:B9:22:ARG:HH11	1.99	0.75
22:BC:52:MET:HG2	22:BC:75:VAL:O	1.86	0.75
23:BD:144:ILE:O	23:BD:144:ILE:HD13	1.87	0.75
24:BE:24:ARG:HG2	24:BE:25:GLU:H	1.52	0.75
25:BF:102:LEU:CD1	25:BF:129:ILE:HG21	2.17	0.75
27:BH:78:MET:CE	27:BH:79:ILE:HG13	2.16	0.75
28:BI:151:GLY:HA2	28:BI:154:ARG:NE	2.01	0.75
30:BK:29:ALA:HB3	30:BK:30:PRO:HD3	1.69	0.75
34:BO:102:ALA:HB2	34:BO:122:ILE:HD11	1.67	0.75
37:BR:60:ALA:O	37:BR:74:MET:HB3	1.87	0.75
42:B0:72:LYS:HD3	42:B0:90:LYS:HE2	1.69	0.75
44:BX:25:LYS:NZ	44:BX:25:LYS:HA	2.02	0.75
47:B9:59:CYS:HB3	47:B9:61:LYS:NZ	2.01	0.75
47:B9:75:ALA:O	47:B9:79:ARG:HD3	1.87	0.75
1:AA:70:G:H21	1:AA:101:A:N6	1.66	0.75
1:AA:111:G:H21	1:AA:389:A:H5'	1.48	0.75
1:AA:567:G:OP1	6:AE:201:GLY:HA2	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:678:U:H5'	11:AK:127:LYS:HA	0.75	0.75
1:AA:1406:U:C6	1:AA:1518:A:C4'	2.53	0.75
3:AB:52:THR:O	3:AB:56:LEU:HD23	1.87	0.75
8:AH:100:TYR:HB2	8:AH:111:ASP:OD1	1.86	0.75
9:AI:58:LYS:HZ1	9:AI:62:ILE:HG21	1.52	0.75
10:AJ:78:THR:HG23	14:AN:39:ARG:HB3	1.62	0.75
18:B3:553:G:H4'	42:B0:69:SER:HB3	1.69	0.75
18:B3:1305:C:OP2	23:BD:191:GLY:N	2.20	0.75
18:B3:1358:A:C2	23:BD:86:GLN:HB3	2.22	0.75
18:B3:2093:G:N2	22:BC:257:ALA:C	2.40	0.75
18:B3:2430:A:H61	46:BZ:59:LYS:HE2	1.50	0.75
18:B3:2457:U:O2'	46:BZ:82:LEU:O	2.04	0.75
18:B3:2459:G:OP1	46:BZ:66:LYS:NZ	2.03	0.75
22:BC:81:PRO:HG3	22:BC:204:VAL:N	2.02	0.75
23:BD:103:LYS:O	23:BD:103:LYS:HD2	1.87	0.75
28:BI:88:ARG:HA	28:BI:88:ARG:CZ	2.16	0.75
28:BI:102:MET:C	28:BI:103:LEU:HD22	2.06	0.75
31:BL:60:ILE:CG2	31:BL:132:ILE:HG12	2.15	0.75
41:BV:75:ASP:OD1	41:BV:115:GLY:HA3	1.86	0.75
46:BZ:44:ARG:CZ	46:BZ:44:ARG:HB3	2.14	0.75
47:B9:47:LYS:NZ	47:B9:48:ARG:HD2	2.02	0.75
1:AA:1065:U:O4	1:AA:1189:C:C4	2.40	0.74
1:AA:1075:C:C3'	3:AB:103:PRO:HD2	2.17	0.74
4:AC:34:SER:HA	4:AC:98:VAL:HG21	1.67	0.74
5:AD:99:LEU:HG	5:AD:107:ARG:H	1.51	0.74
10:AJ:72:ASN:HD22	14:AN:28:GLY:CA	2.00	0.74
10:AJ:72:ASN:HD22	14:AN:28:GLY:HA2	1.52	0.74
17:AS:54:ALA:O	17:AS:84:ILE:HG22	1.87	0.74
18:B3:49:A:H2	18:B3:113:A:O4'	1.66	0.74
18:B3:1565:C:C5'	18:B3:2738:G:C8	2.71	0.74
18:B3:1706:G:C8	18:B3:2736:U:OP1	2.40	0.74
18:B3:1771:U:O2'	47:B9:15:VAL:HB	1.87	0.74
18:B3:1886:A:H5'	47:B9:19:SER:CB	2.16	0.74
18:B3:2048:C:H5"	33:BN:68:ARG:CD	2.12	0.74
18:B3:2053:G:H5'	33:BN:140:SER:CA	2.15	0.74
18:B3:2531:U:O3'	18:B3:2532:A:C4'	2.35	0.74
18:B3:2806:C:C4'	22:BC:343:THR:HG23	2.16	0.74
20:BA:48:ARG:HD2	20:BA:160:LYS:O	1.87	0.74
20:BA:194:LEU:HD23	20:BA:200:ASN:ND2	2.02	0.74
23:BD:160:LYS:HD2	23:BD:163:GLU:HG2	1.68	0.74
26:BG:138:VAL:O	26:BG:141:LEU:HG	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:151:LEU:O	26:BG:198:ALA:HB2	1.86	0.74
27:BH:57:VAL:CB	32:BM:126:LEU:CD1	2.65	0.74
28:BI:106:ALA:HA	28:BI:112:GLN:O	1.85	0.74
32:BM:42:ILE:CD1	32:BM:136:THR:HG21	2.17	0.74
33:BN:127:ARG:CB	33:BN:138:TYR:HB3	2.16	0.74
34:BO:60:PRO:HB3	34:BO:85:GLY:HA3	1.68	0.74
35:BP:94:TRP:HE1	35:BP:98:LEU:HD13	1.49	0.74
36:BQ:75:ILE:H	36:BQ:91:LEU:CD2	2.01	0.74
37:BR:46:LEU:O	37:BR:46:LEU:HD22	1.87	0.74
40:BU:60:ARG:HA	40:BU:60:ARG:NH1	2.01	0.74
41:BV:120:VAL:CG2	41:BV:122:VAL:HG13	2.17	0.74
1:AA:64:G:H21	1:AA:73:C:N4	1.84	0.74
1:AA:132:C:C2	1:AA:262:A:H2	2.03	0.74
1:AA:190(E):U:C2	16:AQ:131:SER:N	2.54	0.74
1:AA:1152:A:O3'	10:AJ:31:VAL:CG2	2.31	0.74
1:AA:1221:G:OP2	17:AS:79:HIS:C	2.26	0.74
1:AA:1329:A:C2'	13:AM:90:ASN:HD21	2.00	0.74
1:AA:1503:A:O2'	1:AA:1507:A:C5'	2.35	0.74
1:AA:1503:A:C5'	1:AA:1530:G:C2	2.68	0.74
2:AT:126:LEU:HD11	2:AT:156:VAL:CG2	2.16	0.74
8:AH:81:LYS:CE	8:AH:86:GLU:HG3	2.16	0.74
13:AM:91:ASP:HA	13:AM:109:LEU:CA	2.16	0.74
18:B3:449:A:P	18:B3:1306:U:H1'	2.27	0.74
18:B3:944:G:O2'	25:BF:125:LEU:HD22	1.88	0.74
18:B3:1360:C:O2'	23:BD:93:CYS:O	2.05	0.74
18:B3:1593:C:OP2	35:BP:116:LYS:O	2.05	0.74
18:B3:1869:A:C2'	21:BB:192:ARG:HH22	1.88	0.74
18:B3:1870:C:O5'	21:BB:192:ARG:NH1	2.09	0.74
18:B3:2347:C:C2	29:BJ:19:ASN:HB2	2.20	0.74
18:B3:2424:U:H4'	36:BQ:7:TYR:N	2.00	0.74
18:B3:2506:A:HO2'	18:B3:2507:G:H8	0.79	0.74
18:B3:2705:U:C4'	27:BH:122:LYS:HZ1	1.79	0.74
19:B4:32:G:N2	24:BE:95:TRP:HH2	1.82	0.74
21:BB:220:LYS:HD3	21:BB:220:LYS:O	1.86	0.74
22:BC:280:LYS:N	22:BC:324:LYS:HE2	2.02	0.74
23:BD:30:ARG:NH2	34:BO:23:ASN:HB3	2.02	0.74
23:BD:151:VAL:O	23:BD:251:GLU:HG2	1.86	0.74
23:BD:207:VAL:CG1	23:BD:247:VAL:HG12	2.15	0.74
24:BE:64:ILE:HG21	24:BE:109:THR:HG21	1.68	0.74
24:BE:143:LYS:C	24:BE:171:LEU:HD11	2.07	0.74
24:BE:187:THR:H	24:BE:200:PHE:CB	1.98	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:187:THR:N	24:BE:200:PHE:HB2	1.99	0.74
26:BG:151:LEU:CD2	26:BG:185:LEU:HD22	2.17	0.74
30:BK:84:ALA:HB1	30:BK:104:ILE:CD1	2.18	0.74
31:BL:17:VAL:HA	31:BL:20:PHE:CE2	2.21	0.74
33:BN:25:PHE:CE1	33:BN:28:THR:HG21	2.22	0.74
35:BP:37:ARG:NH2	35:BP:40:ILE:HD13	2.02	0.74
42:B0:79:VAL:HG22	42:B0:109:LEU:HA	1.69	0.74
43:BW:17:LYS:HD3	43:BW:66:VAL:CG1	2.17	0.74
1:AA:987:G:C4	17:AS:77:ARG:CD	2.69	0.74
1:AA:1179:A:C5'	9:AI:116:LEU:O	2.11	0.74
1:AA:1306:A:O2'	13:AM:144:ARG:HG2	1.87	0.74
1:AA:1318:A:C2	17:AS:82:ASN:CG	2.61	0.74
1:AA:1330:U:OP2	13:AM:97:ASP:CB	2.35	0.74
1:AA:1406:U:O2	1:AA:1517:G:C2'	2.35	0.74
7:AG:85:GLN:HG3	7:AG:93:THR:CG2	2.16	0.74
18:B3:517:U:H2'	18:B3:1319:G:N2	2.01	0.74
18:B3:903:U:C2	41:BV:15:SER:HA	2.22	0.74
18:B3:952:G:C5'	36:BQ:14:MET:HG2	2.18	0.74
18:B3:1067:A:H5'	25:BF:96:PRO:CD	2.17	0.74
18:B3:1206:C:C3'	18:B3:1207:A:C8	2.65	0.74
18:B3:1383:U:C2'	43:BW:29:PRO:CA	2.60	0.74
18:B3:1809:G:N2	18:B3:2732:U:H5'	2.03	0.74
18:B3:2094:G:H5'	22:BC:253:ALA:HB1	1.70	0.74
18:B3:2526:C:C5'	18:B3:2605:G:C5'	2.64	0.74
18:B3:2526:C:H5"	18:B3:2605:G:H4'	1.68	0.74
18:B3:2737:C:C3'	35:BP:60:SER:N	2.46	0.74
18:B3:2826:G:C1'	22:BC:124:SER:N	2.49	0.74
19:B4:29:C:N4	24:BE:57:ASN:CB	2.40	0.74
21:BB:173:ARG:HD3	21:BB:174:VAL:HG22	1.67	0.74
23:BD:162:LYS:O	23:BD:165:VAL:HB	1.87	0.74
24:BE:208:MET:HG3	24:BE:211:LEU:HD22	1.68	0.74
29:BJ:18:LEU:N	29:BJ:68:VAL:HB	2.02	0.74
29:BJ:155:LYS:O	29:BJ:159:VAL:HG12	1.87	0.74
31:BL:66:ARG:HA	31:BL:126:TYR:CE1	2.22	0.74
37:BR:85:TRP:CE3	37:BR:86:ARG:HD2	2.19	0.74
40:BU:17:LYS:HG3	40:BU:18:ALA:N	2.01	0.74
41:BV:117:ILE:CG2	41:BV:118:PRO:HA	2.16	0.74
1:AA:519:C:OP2	12:AL:67:ALA:CB	2.35	0.74
1:AA:888:G:H4'	1:AA:1489:G:H5'	1.68	0.74
1:AA:920:U:C3'	1:AA:1080:A:H2'	2.10	0.74
4:AC:54:THR:HG21	4:AC:89:ARG:HG2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:104:MET:CG	4:AC:121:VAL:HG11	2.16	0.74
5:AD:102:GLU:HB2	5:AD:191:ALA:O	1.86	0.74
18:B3:538:C:N3	42:B0:21:HIS:CE1	2.55	0.74
18:B3:539:G:N2	42:B0:49:ASN:OD1	1.97	0.74
18:B3:792:G:H5"	35:BP:86:ALA:HB2	1.69	0.74
18:B3:921:G:H4'	41:BV:41:ARG:HG3	1.62	0.74
18:B3:1310:U:H5	23:BD:202:ARG:CA	2.00	0.74
18:B3:1383:U:O2'	43:BW:29:PRO:CA	2.29	0.74
18:B3:2345:A:C4'	29:BJ:48:LYS:CE	2.50	0.74
18:B3:2347:C:O4'	29:BJ:66:VAL:CG1	2.15	0.74
18:B3:2413:A:H1'	24:BE:174:PRO:CB	2.16	0.74
18:B3:2526:C:H4'	18:B3:2605:G:C4'	2.15	0.74
18:B3:2566:A:C5'	27:BH:174:LYS:NZ	2.49	0.74
22:BC:48:TYR:CZ	22:BC:49:LYS:HB3	2.22	0.74
24:BE:22:ARG:HH21	24:BE:27:LYS:CG	2.00	0.74
24:BE:34:LYS:O	24:BE:37:VAL:HG12	1.86	0.74
25:BF:177:ILE:CG2	25:BF:183:LEU:HD23	2.16	0.74
27:BH:54:LYS:HA	27:BH:54:LYS:CE	2.16	0.74
31:BL:82:LYS:HB3	31:BL:83:PRO:C	2.08	0.74
35:BP:41:ARG:HD3	35:BP:44:VAL:HB	1.68	0.74
36:BQ:71:SER:HA	36:BQ:92:ARG:NE	2.01	0.74
36:BQ:84:TYR:HB3	36:BQ:86:GLU:HG3	1.69	0.74
40:BU:56:VAL:HG11	40:BU:104:LEU:HB2	1.68	0.74
1:AA:190(E):U:OP2	16:AQ:137:ASN:CA	2.35	0.74
1:AA:779:C:O4'	11:AK:132:ARG:HG3	1.86	0.74
1:AA:1298:C:H42	7:AG:184:ARG:HD3	1.50	0.74
2:AT:433:ARG:HB3	2:AT:457:VAL:CG1	2.17	0.74
10:AJ:71:PRO:HD3	14:AN:42:PHE:CB	2.11	0.74
11:AK:38:ILE:HD13	11:AK:69:LYS:CB	2.17	0.74
16:AQ:131:SER:HB3	16:AQ:134:VAL:CG1	2.16	0.74
18:B3:170:U:O4'	46:BZ:49:PHE:CE2	2.41	0.74
18:B3:948:G:H21	36:BQ:100:LYS:CD	1.97	0.74
18:B3:1311:G:C8	23:BD:185:LYS:HG3	2.22	0.74
18:B3:1789:G:HO2'	18:B3:2877:G:C1'	1.87	0.74
18:B3:2060:A:O3'	42:B0:24:ARG:CD	2.35	0.74
18:B3:2093:G:HO2'	22:BC:253:ALA:CB	0.85	0.74
18:B3:2415:A:O4'	24:BE:39:GLN:CG	2.18	0.74
18:B3:2653:A:C4'	22:BC:256:PRO:C	2.55	0.74
18:B3:2722:G:C5'	37:BR:94:TYR:CE2	2.70	0.74
18:B3:2808:U:H5"	22:BC:274:ARG:CB	2.14	0.74
18:B3:2821:C:C5'	22:BC:103:THR:CA	2.34	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:59:C:OP1	24:BE:25:GLU:CG	2.35	0.74
22:BC:71:VAL:H	37:BR:88:ARG:N	1.85	0.74
23:BD:181:LEU:CD2	23:BD:185:LYS:HG2	2.15	0.74
24:BE:42:ALA:HB1	24:BE:66:SER:HB3	1.69	0.74
24:BE:105:ILE:O	24:BE:108:ARG:HB2	1.88	0.74
24:BE:209:GLU:HG3	24:BE:210:GLU:CD	2.07	0.74
29:BJ:163:LYS:CD	29:BJ:169:ASP:HA	2.17	0.74
32:BM:32:ILE:CG1	32:BM:33:VAL:H	1.99	0.74
33:BN:86:SER:O	33:BN:90:VAL:HG23	1.87	0.74
34:BO:31:LYS:O	34:BO:34:THR:HG22	1.85	0.74
35:BP:21:VAL:HG23	35:BP:22:TRP:CE2	2.22	0.74
41:BV:69:LYS:O	41:BV:108:TYR:HB3	1.88	0.74
42:B0:64:LYS:HD3	42:B0:64:LYS:H	1.52	0.74
42:B0:112:ALA:CB	42:B0:117:ILE:HD11	2.18	0.74
44:BX:51:ILE:HD13	44:BX:51:ILE:O	1.85	0.74
1:AA:518:C:O2	12:AL:65:ASN:C	2.25	0.74
1:AA:920:U:O5'	1:AA:1080:A:N3	2.10	0.74
1:AA:1151:A:N6	10:AJ:57:ARG:NH2	2.36	0.74
2:AT:536:LEU:HD22	18:B3:2698:G:C3'	2.18	0.74
5:AD:55:ALA:HB1	5:AD:59:LEU:HD23	1.68	0.74
10:AJ:56:VAL:HG13	10:AJ:58:LEU:CD2	2.18	0.74
11:AK:56:PRO:HD3	11:AK:88:THR:CG2	2.18	0.74
17:AS:71:GLU:HG3	17:AS:72:LYS:H	1.51	0.74
18:B3:677:C:C2'	23:BD:256:LYS:CG	2.60	0.74
18:B3:844:A:N7	33:BN:130:ARG:NH2	2.35	0.74
18:B3:1168:C:O4'	30:BK:110:ILE:HG21	1.88	0.74
18:B3:1304:U:H2'	23:BD:194:ARG:HB2	1.70	0.74
18:B3:1358:A:C2'	23:BD:92:MET:HG3	2.10	0.74
18:B3:2424:U:H5'	36:BQ:7:TYR:CD2	2.19	0.74
18:B3:2468:A:C8	46:BZ:55:PRO:CG	2.69	0.74
18:B3:2653:A:H4'	22:BC:256:PRO:C	2.07	0.74
19:B4:36:C:H4'	24:BE:182:GLY:H	1.53	0.74
21:BB:31:LEU:HD12	21:BB:31:LEU:H	1.52	0.74
22:BC:276:SER:HB2	22:BC:279:HIS:NE2	2.03	0.74
22:BC:332:LYS:C	22:BC:333:ARG:HG3	2.06	0.74
23:BD:180:VAL:CG2	23:BD:222:PRO:HB2	2.18	0.74
24:BE:35:ARG:CZ	24:BE:35:ARG:HA	2.16	0.74
24:BE:83:LEU:HG	24:BE:104:LEU:HD12	1.67	0.74
24:BE:211:LEU:HD23	24:BE:212:ALA:H	1.49	0.74
27:BH:79:ILE:O	27:BH:82:VAL:HG12	1.87	0.74
29:BJ:98:THR:O	29:BJ:153:THR:HB	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:41:PRO:HD2	31:BL:48:ARG:HH22	1.53	0.74
32:BM:113:LYS:HB3	32:BM:115:LYS:HE3	1.69	0.74
34:BO:113:LYS:HA	34:BO:113:LYS:HZ2	1.50	0.74
37:BR:48:ARG:HE	37:BR:49:LEU:H	1.36	0.74
39:BT:65:PRO:HA	39:BT:83:PHE:CG	2.21	0.74
39:BT:80:ILE:HG12	39:BT:81:LEU:H	1.52	0.74
39:BT:107:LEU:CD2	39:BT:108:LYS:HG2	2.15	0.74
41:BV:70:PRO:HG2	41:BV:103:THR:O	1.86	0.74
41:BV:78:TRP:CD1	41:BV:117:ILE:HD11	2.22	0.74
42:B0:27:ARG:NH2	42:B0:28:VAL:HA	2.03	0.74
42:B0:105:ARG:NH2	42:B0:108:ILE:HG23	2.01	0.74
45:BY:13:LYS:N	45:BY:13:LYS:HE3	2.02	0.74
47:B9:23:ARG:CB	47:B9:27:LYS:HG3	2.17	0.74
1:AA:255:G:O4'	16:AQ:80:HIS:HB2	1.87	0.74
1:AA:560:U:O4	1:AA:565:U:N3	1.95	0.74
1:AA:1179:A:OP2	9:AI:116:LEU:CG	2.36	0.74
1:AA:1343:G:P	9:AI:139:LYS:HG2	2.27	0.74
2:AT:734:GLN:HE21	2:AT:767:THR:HG22	1.52	0.74
5:AD:86:LEU:CG	5:AD:97:LEU:HA	2.11	0.74
5:AD:143:ILE:CG2	5:AD:146:PHE:HB2	2.16	0.74
7:AG:112:ILE:HD12	7:AG:189:ILE:HB	1.70	0.74
8:AH:52:ILE:HD13	8:AH:61:VAL:CG2	2.17	0.74
12:AL:76:LEU:HD21	12:AL:83:VAL:CG2	2.18	0.74
14:AN:37:ILE:N	14:AN:41:CYS:HB2	2.02	0.74
17:AS:109:PRO:O	17:AS:112:LEU:HD13	1.87	0.74
18:B3:74:A:OP1	44:BX:7:TYR:HB2	1.87	0.74
18:B3:93:C:O4'	44:BX:42:PRO:HB3	1.85	0.74
18:B3:170:U:O4'	46:BZ:49:PHE:CZ	2.31	0.74
18:B3:525:G:OP1	33:BN:33:GLN:HG3	1.88	0.74
18:B3:672:G:O4'	23:BD:214:ILE:CB	2.36	0.74
18:B3:765:G:C5'	23:BD:84:SER:HB3	2.15	0.74
18:B3:1471:A:H5"	31:BL:104:ARG:HH11	1.52	0.74
18:B3:1673:U:P	39:BT:110:ASN:HA	2.28	0.74
18:B3:1788:U:C2'	18:B3:2881:C:C2	2.70	0.74
18:B3:2526:C:O5'	18:B3:2605:G:H4'	1.88	0.74
23:BD:186:LEU:HA	23:BD:198:TRP:C	2.07	0.74
26:BG:129:TYR:H	26:BG:204:ALA:CB	2.00	0.74
26:BG:198:ALA:HA	26:BG:199:LEU:HD22	1.70	0.74
28:BI:31:ILE:HD12	28:BI:69:ARG:NE	2.02	0.74
29:BJ:67:HIS:HD2	29:BJ:68:VAL:HG23	1.53	0.74
34:BO:72:LYS:HB2	34:BO:74:GLU:HG3	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:113:LYS:HA	34:BO:113:LYS:CE	2.17	0.74
35:BP:41:ARG:HA	35:BP:44:VAL:HG12	1.68	0.74
37:BR:62:VAL:CG2	37:BR:70:ARG:HA	2.17	0.74
40:BU:35:LEU:HD13	40:BU:46:LYS:O	1.87	0.74
41:BV:18:LYS:HD2	41:BV:19:GLY:N	2.03	0.74
43:BW:35:ILE:CD1	43:BW:50:LEU:HD22	2.18	0.74
1:AA:68:G:C3'	1:AA:73:C:OP2	2.36	0.74
1:AA:560:U:N1	1:AA:563:A:C5'	2.47	0.74
1:AA:713:G:N3	11:AK:124:SER:O	2.20	0.74
1:AA:992:U:H4'	1:AA:993:G:O5'	1.87	0.74
1:AA:1118:C:H5'	9:AI:118:ALA:HB3	1.68	0.74
1:AA:1298:C:C6	13:AM:55:HIS:ND1	2.55	0.74
13:AM:88:ARG:NH2	13:AM:115:ARG:HH11	1.86	0.74
18:B3:516:A:H1'	18:B3:1340:G:H5'	1.61	0.74
18:B3:672:G:N1	23:BD:232:LEU:CD1	2.51	0.74
18:B3:844:A:O5'	33:BN:133:GLY:HA2	1.86	0.74
18:B3:897:A:OP1	41:BV:26:LYS:CB	2.35	0.74
18:B3:1402:G:P	43:BW:62:GLY:HA2	2.28	0.74
18:B3:1794:G:C2'	35:BP:96:ARG:CG	2.65	0.74
18:B3:1874:U:O4	21:BB:124:ALA:HB1	1.88	0.74
18:B3:2387:U:C2'	36:BQ:88:ARG:HB2	2.18	0.74
18:B3:2424:U:H5'	36:BQ:7:TYR:HD2	1.52	0.74
18:B3:2526:C:C5'	18:B3:2605:G:C4'	2.65	0.74
18:B3:2652:U:C1'	22:BC:257:ALA:HB2	2.12	0.74
18:B3:2653:A:C5'	22:BC:257:ALA:N	2.51	0.74
18:B3:2830:U:H1'	22:BC:126:LYS:NZ	2.00	0.74
18:B3:2838:A:OP1	22:BC:221:LYS:CA	2.35	0.74
20:BA:157:PHE:CZ	20:BA:165:LEU:HD22	2.22	0.74
22:BC:184:GLY:HA3	22:BC:190:LYS:CG	2.17	0.74
22:BC:302:LYS:CE	22:BC:305:THR:HB	2.16	0.74
23:BD:34:VAL:HA	23:BD:234:LEU:HD21	1.68	0.74
25:BF:221:HIS:CA	25:BF:228:PHE:HB2	2.16	0.74
28:BI:38:LYS:CD	28:BI:40:LYS:HE3	2.17	0.74
29:BJ:17:VAL:HG23	29:BJ:68:VAL:C	2.08	0.74
29:BJ:165:LYS:HG2	29:BJ:166:TYR:CE2	2.23	0.74
30:BK:82:ILE:HG23	30:BK:87:GLU:O	1.87	0.74
31:BL:18:LEU:O	31:BL:21:LEU:HG	1.87	0.74
32:BM:95:LYS:HB2	32:BM:98:LEU:HD23	1.70	0.74
33:BN:91:GLN:HA	33:BN:94:LEU:CD1	2.10	0.74
33:BN:106:LEU:O	33:BN:106:LEU:HD22	1.88	0.74
35:BP:124:LYS:HZ2	35:BP:127:LYS:HD2	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:114:ILE:CD1	37:BR:133:SER:HA	2.18	0.74
39:BT:74:LYS:HB3	39:BT:81:LEU:HD12	1.69	0.74
42:B0:112:ALA:C	42:B0:117:ILE:HD11	2.08	0.74
1:AA:190(E):U:P	16:AQ:109:HIS:CB	2.76	0.74
1:AA:840:C:H5"	1:AA:841:U:OP1	1.88	0.74
1:AA:860:A:H5"	3:AB:133:LYS:NZ	2.03	0.74
1:AA:1298:C:C3'	13:AM:57:ARG:NH2	2.48	0.74
1:AA:1309:G:C8	13:AM:92:ILE:CG2	0.91	0.74
1:AA:1330:U:H1'	13:AM:93:THR:CB	2.17	0.74
1:AA:1418:A:C2	18:B3:1989:G:N3	2.56	0.74
3:AB:132:ILE:HD12	3:AB:142:VAL:HG11	1.69	0.74
7:AG:208:TYR:HD2	7:AG:212:LYS:HE3	1.48	0.74
18:B3:91:G:H4'	44:BX:39:PRO:C	2.08	0.74
18:B3:450:C:C3'	18:B3:1304:U:O2'	2.32	0.74
18:B3:697:G:H5"	41:BV:132:LEU:HD22	1.69	0.74
18:B3:796:A:N6	18:B3:817:G:H1'	2.01	0.74
18:B3:882:A:C4'	45:BY:2:LYS:N	2.50	0.74
18:B3:1132:A:O2'	18:B3:2521:A:C3'	2.00	0.74
18:B3:1899:C:H4'	21:BB:224:ILE:C	2.07	0.74
18:B3:2283:G:C8	28:BI:106:ALA:HB2	2.22	0.74
18:B3:2333:G:H2'	29:BJ:114:LYS:CB	2.17	0.74
18:B3:2345:A:H5'	29:BJ:48:LYS:HD2	1.64	0.74
19:B4:32:G:N2	24:BE:95:TRP:CZ3	2.55	0.74
20:BA:57:ASN:N	20:BA:155:ILE:HG23	2.02	0.74
23:BD:7:VAL:HA	23:BD:150:VAL:CG2	2.18	0.74
24:BE:135:VAL:HG21	24:BE:142:PHE:CZ	2.23	0.74
27:BH:170:LYS:HE2	27:BH:175:PHE:CE1	2.23	0.74
28:BI:59:GLN:CB	28:BI:128:ARG:HG3	2.18	0.74
28:BI:154:ARG:HB2	28:BI:154:ARG:CZ	2.18	0.74
40:BU:64:LYS:HD2	40:BU:65:GLY:N	2.02	0.74
41:BV:98:ALA:CA	41:BV:125:LYS:HE2	2.17	0.74
1:AA:56:U:HO2'	2:AT:67:GLY:N	1.84	0.74
1:AA:328:C:H2'	1:AA:328:C:O2	1.86	0.74
1:AA:545:C:OP2	5:AD:30:LEU:HD13	1.86	0.74
1:AA:712:A:N1	11:AK:124:SER:CA	2.50	0.74
1:AA:739:C:O2'	15:AO:100:HIS:ND1	2.18	0.74
1:AA:938:A:C2	7:AG:76:TYR:HD1	2.06	0.74
1:AA:1132:C:H2'	1:AA:1133:G:H8	1.51	0.74
1:AA:1223:C:P	17:AS:122:THR:OG1	2.46	0.74
1:AA:1330:U:O2	13:AM:93:THR:CB	2.36	0.74
2:AT:533:THR:H	2:AT:537:HIS:CD2	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:26:ALA:HB1	5:AD:70:LEU:CD2	2.18	0.74
6:AE:157:THR:HG21	8:AH:129:TYR:CE1	2.23	0.74
6:AE:157:THR:HA	8:AH:127:PHE:CE2	2.22	0.74
8:AH:81:LYS:HA	8:AH:87:LYS:HG2	1.70	0.74
9:AI:29:LYS:HD3	9:AI:32:GLY:N	2.03	0.74
9:AI:100:SER:CA	9:AI:116:LEU:HD22	2.17	0.74
14:AN:37:ILE:H	14:AN:41:CYS:CB	2.00	0.74
16:AQ:131:SER:HB3	16:AQ:134:VAL:HG11	1.60	0.74
18:B3:67:A:C1'	39:BT:60:LYS:HZ1	1.99	0.74
18:B3:537:G:C2'	42:B0:41:VAL:HG12	2.18	0.74
18:B3:537:G:O2'	42:B0:41:VAL:HG12	1.87	0.74
18:B3:1183:C:C2'	30:BK:85:LEU:HD12	2.17	0.74
18:B3:1694:G:N2	45:BY:5:PRO:HB2	1.99	0.74
18:B3:2370:A:C6	36:BQ:49:GLN:NE2	2.56	0.74
18:B3:2705:U:C5'	27:BH:122:LYS:HZ1	1.94	0.74
20:BA:48:ARG:HD2	20:BA:160:LYS:C	2.08	0.74
20:BA:94:ASN:CB	20:BA:123:LEU:HD12	2.18	0.74
21:BB:101:LEU:HD13	21:BB:101:LEU:O	1.88	0.74
22:BC:251:ILE:HG23	22:BC:263:VAL:CG2	2.17	0.74
23:BD:250:THR:CG2	23:BD:253:ALA:H	2.01	0.74
24:BE:208:MET:CG	24:BE:211:LEU:H	2.01	0.74
25:BF:146:LEU:CD2	25:BF:239:VAL:HG22	2.18	0.74
25:BF:209:PRO:CD	25:BF:242:MET:HG3	2.18	0.74
26:BG:112:ALA:HB2	26:BG:121:LYS:CG	2.18	0.74
27:BH:63:LYS:HE3	32:BM:129:LYS:HB3	1.70	0.74
32:BM:8:ILE:HG13	32:BM:34:VAL:HG23	1.68	0.74
33:BN:26:LYS:N	33:BN:28:THR:HG22	2.02	0.74
33:BN:56:ALA:N	33:BN:73:LYS:HB2	2.03	0.74
34:BO:97:PRO:O	34:BO:118:GLY:HA2	1.87	0.74
35:BP:105:LEU:HD21	35:BP:137:LEU:CD1	2.14	0.74
41:BV:96:GLU:HA	41:BV:123:ILE:HD11	1.69	0.74
44:BX:36:LEU:HD12	44:BX:36:LEU:H	1.52	0.74
1:AA:292:G:H21	1:AA:608:A:H2	1.33	0.73
1:AA:438:G:H4'	1:AA:439:A:OP1	1.88	0.73
1:AA:537:G:C5'	12:AL:143:PRO:HG2	2.02	0.73
1:AA:792:A:H4'	1:AA:793:U:H5"	1.69	0.73
1:AA:1075:C:C5'	3:AB:102:THR:CB	2.64	0.73
1:AA:1250:A:C4'	9:AI:71:GLY:CA	2.46	0.73
1:AA:1342:C:O2	9:AI:138:GLN:CG	2.22	0.73
2:AT:464:LEU:HB2	2:AT:513:LYS:HG3	1.69	0.73
2:AT:737:GLU:HG2	18:B3:1199:A:N1	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:156:ILE:HB	5:AD:164:PHE:HZ	1.53	0.73
6:AE:153:LEU:HD11	8:AH:98:PHE:CA	2.18	0.73
6:AE:153:LEU:HD21	8:AH:97:GLN:C	2.07	0.73
18:B3:53:C:O4'	18:B3:121:U:C2'	2.36	0.73
18:B3:155:C:OP1	31:BL:190:TRP:CZ3	2.41	0.73
18:B3:452:G:C8	23:BD:193:TYR:CD2	2.76	0.73
18:B3:516:A:C2	18:B3:1339:G:O2'	2.41	0.73
18:B3:745:G:H21	41:BV:76:LYS:CE	2.01	0.73
18:B3:1229:C:H4'	18:B3:2500:C:C3'	2.17	0.73
18:B3:1400:C:O3'	43:BW:59:TRP:C	2.13	0.73
18:B3:1882:C:OP2	21:BB:199:ARG:CG	2.34	0.73
20:BA:51:GLY:H	20:BA:54:LYS:CB	2.01	0.73
22:BC:75:VAL:CG1	22:BC:326:CYS:HB3	2.18	0.73
22:BC:236:LYS:CE	22:BC:237:LEU:HD23	2.17	0.73
22:BC:246:ARG:CZ	22:BC:248:VAL:HA	2.17	0.73
22:BC:259:VAL:HG22	22:BC:261:TRP:N	2.03	0.73
22:BC:359:ASP:N	38:BS:16:GLY:N	2.35	0.73
24:BE:76:ALA:HB3	24:BE:109:THR:OG1	1.88	0.73
25:BF:89:LYS:HA	25:BF:89:LYS:CE	2.18	0.73
28:BI:166:ILE:HD12	28:BI:166:ILE:O	1.87	0.73
29:BJ:36:LEU:HD12	29:BJ:36:LEU:O	1.88	0.73
29:BJ:79:LEU:HD13	29:BJ:79:LEU:O	1.88	0.73
30:BK:62:LEU:CD2	30:BK:72:SER:HB3	2.17	0.73
31:BL:102:GLU:O	31:BL:105:VAL:HB	1.88	0.73
31:BL:188:LYS:HE3	31:BL:188:LYS:CA	2.15	0.73
32:BM:2:VAL:O	32:BM:4:PRO:HD3	1.87	0.73
32:BM:133:LYS:HD3	32:BM:133:LYS:N	2.02	0.73
33:BN:39:GLU:HG2	33:BN:42:LYS:CB	2.12	0.73
35:BP:83:THR:HG23	35:BP:85:GLU:N	2.03	0.73
36:BQ:84:TYR:CB	36:BQ:86:GLU:HG3	2.17	0.73
37:BR:28:ASN:CB	37:BR:102:ILE:HD12	2.18	0.73
40:BU:57:LEU:HA	40:BU:67:GLU:HB2	1.70	0.73
40:BU:60:ARG:HG2	40:BU:103:LYS:HB3	1.69	0.73
40:BU:112:ASP:HB3	40:BU:113:LYS:HZ2	1.53	0.73
42:B0:34:LYS:NZ	42:B0:34:LYS:HA	2.02	0.73
47:B9:63:VAL:HG12	47:B9:64:ALA:O	1.87	0.73
1:AA:21:G:H1'	1:AA:885:G:C4'	2.18	0.73
1:AA:45:U:OP1	1:AA:308:C:C5'	2.36	0.73
1:AA:125:U:H5"	1:AA:291:C:O4'	1.87	0.73
1:AA:231:G:N3	1:AA:263:A:H2	1.86	0.73
1:AA:309:G:H21	1:AA:607:A:H61	1.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:463:LEU:C	2:AT:513:LYS:NZ	2.39	0.73
9:AI:42:ILE:HD11	9:AI:45:PHE:HB2	1.67	0.73
13:AM:111:ASP:O	13:AM:115:ARG:HG3	1.88	0.73
18:B3:29:C:C3'	18:B3:1342:C:H5'	1.98	0.73
18:B3:164:G:H4'	41:BV:31:ARG:HG3	0.73	0.73
18:B3:170:U:H5"	31:BL:82:LYS:HD2	0.75	0.73
18:B3:517:U:O2'	18:B3:1339:G:C1'	2.25	0.73
18:B3:721:A:OP1	34:BO:71:LEU:CG	2.35	0.73
18:B3:1054:G:C4	28:BI:111:LEU:HD11	2.23	0.73
18:B3:1360:C:C2'	23:BD:93:CYS:O	2.36	0.73
18:B3:2557:U:N3	18:B3:2800:A:N7	2.36	0.73
18:B3:2576:A:H2	18:B3:2800:A:H61	1.33	0.73
18:B3:2737:C:P	35:BP:62:THR:CG2	2.67	0.73
20:BA:161:LYS:HD3	20:BA:161:LYS:H	1.53	0.73
21:BB:52:GLY:H	21:BB:53:ARG:HH21	1.34	0.73
21:BB:61:VAL:HB	21:BB:71:ARG:NH2	2.03	0.73
21:BB:110:THR:HG22	21:BB:135:ILE:CG2	2.18	0.73
22:BC:274:ARG:HH22	22:BC:327:ILE:HG21	1.50	0.73
22:BC:274:ARG:NH2	22:BC:327:ILE:HG21	2.04	0.73
24:BE:200:PHE:HD1	24:BE:202:GLY:H	1.33	0.73
25:BF:223:ILE:O	25:BF:224:GLN:HG2	1.89	0.73
28:BI:31:ILE:HD12	28:BI:66:GLU:HA	1.69	0.73
29:BJ:18:LEU:HG	29:BJ:68:VAL:CG2	2.16	0.73
36:BQ:74:VAL:HB	36:BQ:91:LEU:HD21	1.70	0.73
37:BR:11:PHE:HB3	37:BR:86:ARG:CG	2.18	0.73
37:BR:95:PHE:CE2	38:BS:23:ARG:CA	2.55	0.73
40:BU:85:VAL:CG1	40:BU:96:PRO:HB3	2.18	0.73
40:BU:116:LYS:O	40:BU:119:ILE:HG23	1.88	0.73
42:B0:96:ILE:HD11	42:B0:100:ILE:HG21	1.68	0.73
43:BW:29:PRO:O	43:BW:32:VAL:HG12	1.88	0.73
46:BZ:79:ARG:NH2	46:BZ:80:ALA:HB3	2.03	0.73
1:AA:6:G:C5'	1:AA:298:A:O3'	2.36	0.73
1:AA:21:G:C4'	1:AA:885:G:P	2.72	0.73
1:AA:190(D):U:H3'	16:AQ:137:ASN:CA	1.72	0.73
1:AA:190(E):U:H5'	16:AQ:109:HIS:CD2	2.24	0.73
1:AA:400:C:O2	1:AA:622:A:C2'	2.36	0.73
1:AA:987:G:C5	1:AA:1014:A:C2	2.76	0.73
2:AT:536:LEU:HD11	18:B3:2699:A:H5'	1.68	0.73
2:AT:748:ASN:CB	18:B3:2508:C:O2	2.37	0.73
3:AB:88:PHE:CE1	3:AB:174:TYR:HB3	2.23	0.73
3:AB:169:ILE:HD12	3:AB:173:TRP:CZ3	2.23	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:28:ILE:HG23	9:AI:64:ILE:CG2	2.19	0.73
9:AI:98:GLU:H	9:AI:103:GLU:N	1.86	0.73
10:AJ:28:SER:OG	10:AJ:34:LEU:HG	1.87	0.73
16:AQ:124:VAL:HG21	16:AQ:136:PHE:HB3	1.69	0.73
18:B3:1153:C:P	18:B3:1155:G:OP2	2.46	0.73
18:B3:2065:C:C6	22:BC:255:HIS:CE1	2.75	0.73
18:B3:2336:G:N7	29:BJ:118:SER:HB3	2.02	0.73
18:B3:2518:C:O2	28:BI:158:LYS:HB2	1.88	0.73
18:B3:2586:U:H3	18:B3:2592:G:H22	1.37	0.73
18:B3:2613:G:N2	22:BC:238:PRO:HD2	2.03	0.73
18:B3:2779:G:O2'	27:BH:163:GLN:CB	2.30	0.73
18:B3:2819:C:C3'	22:BC:100:SER:HA	2.18	0.73
20:BA:151:VAL:O	20:BA:160:LYS:HG3	1.87	0.73
21:BB:6:ASN:O	21:BB:9:LYS:HG2	1.89	0.73
22:BC:34:ASP:OD1	22:BC:183:ASN:HB3	1.87	0.73
22:BC:45:PHE:CE2	22:BC:83:VAL:HB	2.23	0.73
22:BC:76:THR:HG23	22:BC:326:CYS:SG	2.28	0.73
22:BC:173:LYS:HE3	22:BC:174:LYS:H	1.51	0.73
24:BE:33:ARG:HA	24:BE:36:LEU:HG	1.71	0.73
24:BE:65:ILE:HD12	24:BE:75:LEU:N	2.04	0.73
25:BF:100:LYS:HD2	25:BF:100:LYS:O	1.88	0.73
25:BF:174:LYS:HD2	25:BF:174:LYS:O	1.88	0.73
26:BG:159:ILE:HD11	31:BL:40:ARG:CD	2.16	0.73
27:BH:161:LEU:CA	27:BH:164:ILE:HG13	2.18	0.73
29:BJ:133:PRO:HG2	29:BJ:135:ALA:N	2.01	0.73
30:BK:112:ILE:HG22	30:BK:132:ILE:HD13	1.69	0.73
33:BN:48:GLU:HA	33:BN:48:GLU:OE2	1.88	0.73
37:BR:92:PHE:CD1	38:BS:20:LEU:CG	2.71	0.73
40:BU:31:LEU:HD21	40:BU:78:PHE:O	1.87	0.73
40:BU:117:ALA:O	40:BU:118:LEU:HD23	1.88	0.73
44:BX:17:LEU:HG	44:BX:58:ILE:CG2	2.18	0.73
1:AA:280:C:C2	16:AQ:102:ARG:HG2	2.23	0.73
1:AA:920:U:H4'	1:AA:1080:A:C1'	2.12	0.73
1:AA:1278:U:H5"	1:AA:1279:A:C5'	2.19	0.73
1:AA:1310:G:OP1	13:AM:116:LEU:HD21	1.89	0.73
2:AT:738:GLN:CA	18:B3:1199:A:H61	1.85	0.73
6:AE:97:PHE:O	6:AE:116:THR:HG23	1.89	0.73
7:AG:173:LEU:HD12	7:AG:174:LEU:N	2.03	0.73
9:AI:13:LYS:HZ1	9:AI:74:VAL:HG12	1.53	0.73
9:AI:18:VAL:CG2	9:AI:67:ARG:HB3	2.17	0.73
9:AI:102:ASN:N	9:AI:105:LYS:HB2	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:29:VAL:HB	11:AK:70:CYS:SG	2.27	0.73
12:AL:52:ILE:HD12	12:AL:52:ILE:O	1.89	0.73
14:AN:29:LEU:HD13	14:AN:38:CYS:HA	1.70	0.73
18:B3:91:G:H4'	44:BX:39:PRO:O	1.87	0.73
18:B3:100:C:O2	40:BU:24:SER:HB2	1.88	0.73
18:B3:618:G:H8	42:B0:46:PHE:CD1	2.02	0.73
18:B3:678:G:O4'	23:BD:259:GLN:OE1	2.06	0.73
18:B3:782:G:O3'	21:BB:189:ARG:CZ	2.35	0.73
18:B3:875:A:H1'	21:BB:203:MET:SD	2.29	0.73
18:B3:898:G:P	41:BV:25:ARG:HG2	2.27	0.73
18:B3:1096:U:O3'	25:BF:213:TRP:HZ3	1.62	0.73
18:B3:1206:C:C2'	18:B3:1207:A:O4'	2.36	0.73
18:B3:1785:G:N1	18:B3:2884:G:H5'	2.01	0.73
18:B3:2037:C:H5"	37:BR:47:ASN:O	1.88	0.73
18:B3:2220:C:O2'	20:BA:211:GLY:O	2.01	0.73
18:B3:2244:A:O3'	31:BL:27:TRP:HZ3	1.71	0.73
18:B3:2310:G:C3'	28:BI:119:TRP:CZ2	2.67	0.73
20:BA:102:LYS:HG3	20:BA:105:LYS:HE3	1.70	0.73
21:BB:56:PRO:CG	47:B9:51:ALA:HB3	2.17	0.73
21:BB:134:ILE:CG1	21:BB:148:ARG:HG3	2.18	0.73
22:BC:41:ALA:N	22:BC:182:LEU:HB3	2.01	0.73
22:BC:44:SER:OG	22:BC:339:LYS:HD2	1.87	0.73
22:BC:341:LEU:H	22:BC:341:LEU:HD23	1.53	0.73
23:BD:215:VAL:HG11	23:BD:218:LEU:HD23	1.69	0.73
24:BE:64:ILE:O	24:BE:74:VAL:HG23	1.89	0.73
27:BH:18:VAL:HG13	27:BH:26:LYS:HZ3	1.52	0.73
28:BI:59:GLN:HG2	28:BI:126:ALA:CB	2.18	0.73
29:BJ:163:LYS:HD2	29:BJ:169:ASP:HA	1.69	0.73
32:BM:84:ARG:CZ	32:BM:87:VAL:HG21	2.17	0.73
34:BO:116:LYS:HG2	34:BO:117:ALA:H	1.53	0.73
35:BP:20:LYS:C	35:BP:51:LYS:HG2	2.08	0.73
37:BR:62:VAL:HG23	37:BR:70:ARG:HA	1.70	0.73
38:BS:39:LEU:HD23	38:BS:44:LYS:HB3	1.68	0.73
47:B9:45:THR:HG21	47:B9:58:CYS:SG	2.28	0.73
1:AA:6:G:H2'	6:AE:196:TYR:HE2	1.53	0.73
1:AA:988:G:O4'	1:AA:1014:A:O4'	1.98	0.73
1:AA:1064:G:H4'	1:AA:1065:U:C5'	2.19	0.73
1:AA:1071:C:OP2	6:AE:90:ARG:NE	2.20	0.73
1:AA:1075:C:C4'	3:AB:103:PRO:CD	2.59	0.73
1:AA:1118:C:H5"	9:AI:118:ALA:HB3	1.59	0.73
1:AA:1370:G:OP2	9:AI:123:PRO:CG	2.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:181:LEU:HB3	3:AB:186:ALA:HB3	1.70	0.73
8:AH:30:SER:O	8:AH:33:ILE:HG22	1.89	0.73
10:AJ:70:THR:CG2	14:AN:40:GLN:H	1.86	0.73
18:B3:540:A:P	42:B0:18:LYS:HB2	2.29	0.73
18:B3:553:G:OP1	42:B0:69:SER:OG	2.05	0.73
18:B3:697:G:H2'	41:BV:112:LEU:HD11	1.70	0.73
18:B3:1438:G:N2	18:B3:1685:A:H8	1.86	0.73
18:B3:1449:G:C5'	39:BT:110:ASN:HD21	1.92	0.73
18:B3:2101:A:H8	23:BD:71:ALA:CA	1.89	0.73
18:B3:2526:C:O4'	18:B3:2604:A:O2'	2.06	0.73
18:B3:2560:C:C3'	27:BH:168:ARG:HG3	2.18	0.73
18:B3:2763:G:C2'	37:BR:14:SER:OG	2.36	0.73
19:B4:47:A:C5'	24:BE:154:THR:N	2.51	0.73
20:BA:205:VAL:HG13	20:BA:214:PHE:O	1.88	0.73
21:BB:48:VAL:CG2	21:BB:59:LYS:HE2	2.18	0.73
22:BC:269:ARG:HB3	22:BC:269:ARG:NH1	2.03	0.73
23:BD:160:LYS:HE2	23:BD:163:GLU:HG2	1.70	0.73
27:BH:64:HIS:ND1	27:BH:68:LEU:HD21	2.02	0.73
31:BL:82:LYS:HE2	31:BL:82:LYS:HA	1.69	0.73
37:BR:13:ILE:HD12	37:BR:14:SER:O	1.87	0.73
41:BV:111:ILE:HD13	41:BV:111:ILE:H	1.53	0.73
46:BZ:25:THR:CG2	46:BZ:70:ARG:HG2	2.19	0.73
1:AA:280:C:O2	16:AQ:102:ARG:CG	2.33	0.73
1:AA:402:G:O3'	5:AD:144:PRO:CB	2.37	0.73
1:AA:678:U:C1'	11:AK:125:THR:CG2	2.60	0.73
1:AA:838:G:C2'	1:AA:839:U:H5"	2.16	0.73
4:AC:167:ILE:HD13	4:AC:188:MET:HA	1.70	0.73
5:AD:99:LEU:HB2	5:AD:103:ASP:C	2.09	0.73
17:AS:90:ILE:CG1	17:AS:112:LEU:HD11	2.18	0.73
18:B3:69:A:H5'	44:BX:52:ALA:HB1	1.65	0.73
18:B3:1120:U:N3	18:B3:1226:G:P	2.61	0.73
18:B3:1287:A:H2	25:BF:106:ARG:CD	1.91	0.73
18:B3:1306:U:OP1	23:BD:196:ARG:NE	2.19	0.73
18:B3:1795:G:OP1	35:BP:100:VAL:HG11	1.88	0.73
18:B3:1847:A:O2'	21:BB:179:LEU:CA	2.31	0.73
18:B3:1861:C:O3'	21:BB:7:GLN:CB	2.37	0.73
18:B3:2051:G:P	33:BN:86:SER:H	2.12	0.73
18:B3:2363:G:H21	36:BQ:8:ARG:HD3	1.48	0.73
18:B3:2520:G:H5"	28:BI:160:PRO:HA	0.73	0.73
18:B3:2655:U:O2'	22:BC:265:ARG:CB	2.30	0.73
18:B3:2762:C:C1'	37:BR:83:LYS:HD2	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2819:C:H2'	22:BC:100:SER:HA	1.69	0.73
18:B3:2853:U:P	22:BC:170:LEU:HG	2.28	0.73
21:BB:60:VAL:HG12	21:BB:61:VAL:H	1.53	0.73
21:BB:61:VAL:O	21:BB:66:TYR:HB2	1.89	0.73
21:BB:195:TRP:CD1	21:BB:196:PRO:HA	2.22	0.73
23:BD:186:LEU:HA	23:BD:199:THR:CA	2.17	0.73
24:BE:190:ILE:CG1	24:BE:192:PRO:HD2	2.13	0.73
25:BF:87:ARG:HD3	25:BF:102:LEU:HD23	1.70	0.73
26:BG:151:LEU:HD21	26:BG:185:LEU:HB2	1.69	0.73
30:BK:136:ALA:O	30:BK:139:VAL:HG12	1.89	0.73
32:BM:63:PHE:HD2	32:BM:64:ASN:HB2	1.53	0.73
33:BN:73:LYS:HD2	33:BN:73:LYS:N	2.03	0.73
34:BO:30:VAL:HB	34:BO:49:LEU:HD12	1.71	0.73
39:BT:65:PRO:CA	39:BT:83:PHE:HB3	2.19	0.73
41:BV:25:ARG:HG2	41:BV:27:HIS:CD2	2.24	0.73
42:B0:35:GLN:CD	42:B0:43:ARG:HB2	2.09	0.73
46:BZ:74:VAL:HG23	46:BZ:77:LYS:NZ	2.04	0.73
1:AA:779:C:H5'	11:AK:131:ARG:C	1.99	0.73
1:AA:938:A:H2	7:AG:76:TYR:CD1	2.05	0.73
3:AB:110:ILE:O	3:AB:110:ILE:HD13	1.87	0.73
4:AC:100:GLN:HG3	4:AC:125:VAL:CG2	2.18	0.73
5:AD:82:ARG:O	5:AD:85:VAL:HG12	1.87	0.73
6:AE:153:LEU:CD2	8:AH:97:GLN:HA	2.18	0.73
6:AE:187:LEU:HD22	6:AE:195:VAL:HG21	1.70	0.73
8:AH:76:PRO:HG3	8:AH:129:TYR:CZ	2.24	0.73
10:AJ:70:THR:O	14:AN:39:ARG:N	2.21	0.73
12:AL:112:LYS:CE	12:AL:121:ARG:HD3	2.08	0.73
18:B3:434:U:H5"	31:BL:156:LYS:NZ	2.03	0.73
18:B3:449:A:N3	18:B3:1348:A:C6	2.56	0.73
18:B3:499:G:O2'	33:BN:19:SER:N	2.21	0.73
18:B3:894:A:C2	23:BD:98:MET:HE3	2.23	0.73
18:B3:903:U:OP2	41:BV:14:VAL:HG23	1.88	0.73
18:B3:1117:A:O4'	18:B3:1226:G:C8	2.24	0.73
18:B3:1119:G:N2	18:B3:1246:A:C2	2.57	0.73
18:B3:1228:C:O3'	32:BM:47:PHE:CE1	2.35	0.73
18:B3:1381:A:N1	43:BW:25:LYS:O	2.22	0.73
18:B3:1414:A:O2'	45:BY:13:LYS:NZ	2.20	0.73
18:B3:1733:A:C4'	22:BC:225:PHE:O	2.37	0.73
18:B3:1809:G:N2	18:B3:2732:U:H4'	2.04	0.73
18:B3:2064:U:H3'	22:BC:255:HIS:CE1	2.24	0.73
18:B3:2407:G:C2	46:BZ:10:TYR:OH	2.41	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2441:U:HO2'	41:BV:60:PHE:HZ	0.75	0.73
18:B3:2547:C:H5'	22:BC:246:ARG:NH1	2.04	0.73
18:B3:2560:C:H5'	27:BH:168:ARG:HD2	0.74	0.73
18:B3:2717:C:O2'	18:B3:2718:C:H5"	1.89	0.73
18:B3:2808:U:C2'	22:BC:15:PHE:HA	2.17	0.73
18:B3:2837:U:C4	22:BC:333:ARG:HD2	2.20	0.73
20:BA:8:GLN:HE21	20:BA:216:LEU:HD11	1.54	0.73
21:BB:134:ILE:HG13	21:BB:148:ARG:HG3	1.69	0.73
22:BC:7:ALA:HB3	22:BC:8:PRO:C	2.09	0.73
23:BD:11:THR:HG23	23:BD:13:GLU:N	1.97	0.73
23:BD:133:LEU:HD21	23:BD:243:LEU:CG	2.18	0.73
23:BD:191:GLY:HA2	23:BD:194:ARG:HH11	1.53	0.73
23:BD:205:LEU:HG	23:BD:206:VAL:H	1.53	0.73
26:BG:130:ALA:CB	26:BG:202:VAL:H	2.00	0.73
26:BG:150:VAL:HB	26:BG:198:ALA:HB1	1.70	0.73
28:BI:59:GLN:CA	28:BI:128:ARG:HG3	2.17	0.73
33:BN:124:GLN:HB2	33:BN:139:GLU:CG	2.18	0.73
33:BN:127:ARG:HB2	33:BN:138:TYR:CB	2.18	0.73
36:BQ:39:ILE:HG12	36:BQ:99:SER:HB3	1.70	0.73
37:BR:117:PRO:HA	37:BR:135:VAL:CG1	2.18	0.73
40:BU:85:VAL:HG12	40:BU:96:PRO:HB3	1.70	0.73
42:B0:33:ARG:HG3	42:B0:34:LYS:O	1.88	0.73
42:B0:95:GLU:HG3	42:B0:120:THR:HG21	1.71	0.73
47:B9:35:ARG:HB2	47:B9:44:LYS:CD	2.18	0.73
1:AA:523:A:H62	12:AL:113:ALA:HB1	1.48	0.73
1:AA:1220:G:O2'	17:AS:96:ILE:HA	1.88	0.73
1:AA:1302:U:C2'	13:AM:54:LEU:HD22	2.18	0.73
1:AA:1318:A:H3'	17:AS:54:ALA:CB	1.98	0.73
3:AB:66:ILE:HG22	3:AB:67:PRO:HD3	1.71	0.73
3:AB:171:LEU:HA	3:AB:174:TYR:CD2	2.23	0.73
4:AC:102:GLU:HA	4:AC:172:ARG:CG	2.18	0.73
17:AS:87:PRO:HG3	17:AS:112:LEU:HD23	1.71	0.73
18:B3:1024:G:H2'	25:BF:104:LEU:HD11	1.69	0.73
18:B3:1133:A:H1'	18:B3:2520:G:N3	2.03	0.73
18:B3:1181:A:H2	30:BK:105:GLN:CB	1.80	0.73
18:B3:1708:C:OP1	35:BP:80:ARG:HG2	1.88	0.73
18:B3:2081:A:H4'	32:BM:69:PRO:CB	2.18	0.73
18:B3:2819:C:C4	22:BC:100:SER:HB3	2.21	0.73
19:B4:34:A:H3'	24:BE:185:PHE:HE1	1.51	0.73
19:B4:86:G:N3	25:BF:220:LYS:CG	2.42	0.73
20:BA:179:LEU:HD13	20:BA:179:LEU:O	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:52:MET:HA	22:BC:52:MET:HE3	1.70	0.73
25:BF:86:VAL:HG12	25:BF:134:ALA:HB3	1.70	0.73
27:BH:7:GLU:HB3	27:BH:56:ALA:HB2	1.69	0.73
27:BH:31:ARG:HB3	27:BH:149:ASN:OD1	1.87	0.73
28:BI:65:LEU:HD12	28:BI:68:ALA:O	1.89	0.73
34:BO:62:VAL:HG11	34:BO:87:VAL:CA	2.19	0.73
35:BP:11:ALA:HB2	35:BP:16:VAL:HG23	1.69	0.73
43:BW:16:HIS:HB2	43:BW:30:ARG:HG3	1.68	0.73
43:BW:28:ALA:HA	43:BW:59:TRP:CZ2	2.22	0.73
45:BY:4:THR:HB	45:BY:5:PRO:C	2.09	0.73
1:AA:430:A:O2'	5:AD:40:LYS:NZ	2.14	0.73
1:AA:875:C:O2'	8:AH:11:ASN:ND2	2.19	0.73
1:AA:1148:U:H2'	1:AA:1149:C:O4'	1.89	0.73
1:AA:1302:U:O5'	13:AM:54:LEU:CG	2.36	0.73
1:AA:1316:G:N1	17:AS:49:MET:CE	2.45	0.73
3:AB:119:LEU:HD13	3:AB:141:PRO:HB2	1.69	0.73
5:AD:53:ARG:HG2	5:AD:54:ARG:H	1.53	0.73
5:AD:99:LEU:HA	5:AD:103:ASP:N	2.04	0.73
8:AH:110:MET:HB3	8:AH:114:GLU:HB2	1.70	0.73
11:AK:55:SER:HA	11:AK:88:THR:OG1	1.89	0.73
18:B3:1118:A:C4'	18:B3:1228:C:H41	1.96	0.73
18:B3:1163:G:C5'	30:BK:54:LYS:CB	2.62	0.73
18:B3:1308:A:H8	23:BD:202:ARG:NH2	1.87	0.73
18:B3:1428:C:H4'	33:BN:124:GLN:HE22	1.53	0.73
18:B3:1470:A:C1'	31:BL:95:ARG:NH2	2.40	0.73
18:B3:1806:G:C3'	18:B3:2884:G:N2	2.38	0.73
18:B3:1886:A:H5'	47:B9:19:SER:HB2	1.70	0.73
18:B3:2165:G:H1'	20:BA:207:LYS:HE3	1.69	0.73
18:B3:2337:G:P	29:BJ:103:PHE:CD2	2.82	0.73
18:B3:2561:C:C5'	18:B3:2777:G:O2'	2.36	0.73
18:B3:2779:G:H1'	27:BH:163:GLN:HB3	1.70	0.73
19:B4:50:G:O4'	24:BE:94:ASN:N	2.08	0.73
21:BB:201:VAL:HG12	21:BB:216:GLN:OE1	1.89	0.73
24:BE:80:SER:N	24:BE:101:THR:HG21	2.03	0.73
28:BI:152:LEU:H	28:BI:154:ARG:NH2	1.86	0.73
29:BJ:157:ASP:O	29:BJ:160:SER:HB3	1.87	0.73
29:BJ:162:PHE:HB3	29:BJ:166:TYR:OH	1.89	0.73
37:BR:32:ARG:HG3	37:BR:64:LYS:C	2.08	0.73
41:BV:120:VAL:HG11	41:BV:122:VAL:CG1	2.19	0.73
42:B0:43:ARG:NE	42:B0:43:ARG:HA	2.04	0.73
42:B0:66:LEU:HD11	42:B0:70:GLY:C	2.09	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:13:ILE:O	43:BW:17:LYS:HG2	1.88	0.73
1:AA:129(A):G:O2'	16:AQ:125:GLY:O	2.06	0.73
1:AA:131:C:C6	16:AQ:128:ARG:CD	2.70	0.73
1:AA:132:C:OP2	16:AQ:128:ARG:CZ	2.37	0.73
1:AA:545:C:H5"	5:AD:66:ASP:HB2	1.70	0.73
1:AA:1075:C:OP1	3:AB:102:THR:HB	1.88	0.73
1:AA:1296:C:C5'	13:AM:52:VAL:O	2.37	0.73
1:AA:1340:A:O3'	9:AI:141:TYR:CE2	2.30	0.73
2:AT:464:LEU:HD21	2:AT:510:ARG:HG2	1.69	0.73
3:AB:86:LEU:HD12	3:AB:87:LYS:N	2.04	0.73
3:AB:104:GLY:CA	3:AB:107:THR:HG22	2.09	0.73
10:AJ:62:VAL:CG1	10:AJ:83:GLU:HG2	2.18	0.73
13:AM:16:ARG:HA	13:AM:21:ASN:O	1.89	0.73
18:B3:35:U:C5'	23:BD:49:TYR:HA	2.19	0.73
18:B3:111:C:H5'	18:B3:118:G:O6	1.89	0.73
18:B3:215:A:C4'	41:BV:58:ARG:CD	2.55	0.73
18:B3:449:A:H62	18:B3:1349:G:H3'	0.71	0.73
18:B3:516:A:C1'	18:B3:1340:G:H5'	2.17	0.73
18:B3:945:U:O4'	25:BF:125:LEU:CD2	2.37	0.73
18:B3:1359:U:O4	23:BD:71:ALA:C	2.18	0.73
18:B3:1733:A:C4	22:BC:225:PHE:HE1	2.06	0.73
18:B3:1810:C:C2	18:B3:2753:G:N9	2.47	0.73
18:B3:1972:U:H2'	18:B3:1973:A:H5'	1.71	0.73
18:B3:1993:C:O5'	37:BR:71:LYS:HA	1.88	0.73
18:B3:2319:C:OP2	46:BZ:1:VAL:HG21	1.89	0.73
18:B3:2434:A:OP1	46:BZ:35:PHE:HB2	1.87	0.73
18:B3:2737:C:N4	35:BP:61:ARG:HH21	1.85	0.73
18:B3:2819:C:H3'	22:BC:100:SER:CA	2.19	0.73
19:B4:30:C:H42	24:BE:57:ASN:HA	1.54	0.73
20:BA:108:ASN:ND2	20:BA:162:VAL:HB	1.93	0.73
21:BB:43:ILE:HG13	21:BB:61:VAL:HG11	1.70	0.73
21:BB:127:ARG:NE	21:BB:128:ALA:H	1.87	0.73
21:BB:138:HIS:HB2	21:BB:141:ASP:CA	2.18	0.73
22:BC:210:GLN:HB2	22:BC:351:GLU:O	1.89	0.73
23:BD:56:GLY:O	23:BD:83:ARG:HB2	1.89	0.73
24:BE:111:GLN:H	24:BE:115:LEU:CB	2.01	0.73
25:BF:202:TRP:HB3	25:BF:203:PRO:HA	1.71	0.73
26:BG:123:ASP:N	26:BG:188:LEU:HD13	2.04	0.73
26:BG:141:LEU:HD11	26:BG:150:VAL:HG11	1.71	0.73
27:BH:64:HIS:CG	32:BM:127:ARG:HB3	2.24	0.73
28:BI:80:SER:HB3	28:BI:83:ASP:OD1	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:98:ARG:HB2	28:BI:120:GLY:C	2.10	0.73
29:BJ:163:LYS:HE2	29:BJ:169:ASP:HA	1.69	0.73
31:BL:52:TYR:HE2	31:BL:60:ILE:HG23	1.54	0.73
37:BR:81:GLN:HE21	37:BR:81:GLN:HA	1.52	0.73
1:AA:190(D):U:N3	16:AQ:111:SER:N	2.38	0.72
1:AA:317:G:N2	1:AA:1468:A:H1'	2.04	0.72
1:AA:336:C:P	1:AA:1433:A:O3'	2.47	0.72
1:AA:501:C:H2'	1:AA:502:G:H8	1.52	0.72
1:AA:634:C:H2'	16:AQ:92:TYR:OH	1.88	0.72
1:AA:1168:A:H2'	1:AA:1169:A:C8	2.24	0.72
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.70	0.72
7:AG:177:GLY:O	7:AG:180:GLU:HB3	1.89	0.72
9:AI:47:VAL:HG13	9:AI:81:ARG:CA	2.19	0.72
9:AI:47:VAL:HG11	9:AI:80:ILE:HG22	1.68	0.72
16:AQ:70:LEU:HB2	16:AQ:124:VAL:HG12	1.71	0.72
16:AQ:74:VAL:HG13	16:AQ:83:ILE:CG1	2.19	0.72
18:B3:107:U:H5	44:BX:60:GLU:O	1.72	0.72
18:B3:188:C:O2'	31:BL:187:ARG:CG	2.36	0.72
18:B3:371:U:H2'	18:B3:372:A:H8	1.54	0.72
18:B3:693:A:O3'	41:BV:59:TYR:CZ	2.42	0.72
18:B3:1285:U:H5"	25:BF:155:ILE:HD13	1.66	0.72
18:B3:1312:G:C2	23:BD:186:LEU:HD11	2.21	0.72
18:B3:1508:C:H5'	39:BT:77:ASP:C	2.09	0.72
18:B3:1589:G:N2	18:B3:1605:G:H2'	2.05	0.72
18:B3:1652:C:C5'	21:BB:174:VAL:HG11	2.19	0.72
18:B3:1652:C:C5'	21:BB:174:VAL:CG1	2.65	0.72
18:B3:1872:C:C2	21:BB:22:ARG:HG2	2.24	0.72
18:B3:2072:G:H4'	18:B3:2490:A:O2'	1.89	0.72
18:B3:2296:C:H5"	36:BQ:8:ARG:O	1.88	0.72
18:B3:2336:G:N2	29:BJ:127:TYR:CD2	2.54	0.72
20:BA:55:LEU:HD13	20:BA:158:GLN:H	1.52	0.72
22:BC:45:PHE:CZ	22:BC:83:VAL:HB	2.23	0.72
22:BC:52:MET:CB	22:BC:76:THR:HA	2.18	0.72
24:BE:55:PHE:HE1	24:BE:159:VAL:HG22	1.48	0.72
29:BJ:33:SER:O	29:BJ:37:GLU:HG3	1.89	0.72
31:BL:41:PRO:HG2	31:BL:48:ARG:HH12	1.54	0.72
31:BL:136:PRO:HA	31:BL:151:CYS:SG	2.29	0.72
32:BM:13:HIS:CE1	32:BM:121:GLN:HB3	2.23	0.72
32:BM:14:LEU:HA	32:BM:41:ASN:O	1.88	0.72
33:BN:59:PHE:CE1	33:BN:80:ALA:HA	2.24	0.72
36:BQ:75:ILE:HG13	36:BQ:76:ILE:H	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:74:MET:CB	37:BR:75:PRO:HA	2.19	0.72
1:AA:353:A:H8	1:AA:353:A:H5'	1.52	0.72
1:AA:499:A:N6	5:AD:19:TYR:O	2.22	0.72
1:AA:1241:G:OP2	7:AG:187:LYS:HE3	1.90	0.72
1:AA:1343:G:H2'	1:AA:1344:C:C6	2.24	0.72
2:AT:630:ALA:O	2:AT:633:ILE:HG23	1.89	0.72
3:AB:17:LEU:H	3:AB:17:LEU:HD22	1.53	0.72
7:AG:112:ILE:CG2	7:AG:113:ILE:HD12	2.14	0.72
8:AH:10:LEU:HD12	8:AH:79:ASN:ND2	2.05	0.72
8:AH:76:PRO:HG3	8:AH:129:TYR:CD2	2.24	0.72
8:AH:101:VAL:H	8:AH:112:HIS:HD2	1.37	0.72
9:AI:37:LEU:O	9:AI:40:PRO:HD3	1.89	0.72
9:AI:100:SER:HB3	9:AI:116:LEU:HD13	1.71	0.72
10:AJ:71:PRO:N	14:AN:36:ASN:HB2	2.03	0.72
13:AM:85:PHE:HA	13:AM:100:THR:CA	2.18	0.72
18:B3:20:G:HO2'	33:BN:5:ALA:HA	0.86	0.72
18:B3:471:G:C5'	45:BY:15:HIS:CE1	2.71	0.72
18:B3:1132:A:HO2'	18:B3:2521:A:C4'	1.01	0.72
18:B3:1306:U:OP2	23:BD:196:ARG:C	2.28	0.72
18:B3:1846:U:OP2	21:BB:197:LYS:CE	2.36	0.72
18:B3:1855:G:H1	21:BB:150:PRO:CG	2.02	0.72
18:B3:2300:A:C2	36:BQ:10:ARG:NH1	2.56	0.72
18:B3:2763:G:O5'	37:BR:14:SER:HB2	1.80	0.72
19:B4:28:U:H2'	19:B4:29:C:C6	2.24	0.72
19:B4:39:U:H1'	19:B4:44:A:N6	2.04	0.72
21:BB:5:ARG:O	21:BB:5:ARG:HD3	1.89	0.72
21:BB:72:GLU:C	21:BB:74:ILE:HD12	2.10	0.72
21:BB:98:GLY:H	21:BB:165:ILE:CG2	2.01	0.72
22:BC:246:ARG:NH1	22:BC:248:VAL:HG22	2.04	0.72
24:BE:23:ARG:HH22	24:BE:26:GLY:CA	2.02	0.72
24:BE:61:ILE:HG13	24:BE:79:TYR:HD2	1.54	0.72
25:BF:179:SER:CA	25:BF:183:LEU:HD21	2.18	0.72
29:BJ:33:SER:O	29:BJ:36:LEU:HG	1.89	0.72
31:BL:161:ARG:HG2	31:BL:166:THR:HG21	1.72	0.72
32:BM:33:VAL:HG11	32:BM:104:PHE:CE1	2.19	0.72
34:BO:30:VAL:HB	34:BO:49:LEU:CD1	2.19	0.72
34:BO:62:VAL:HG13	34:BO:88:THR:HG22	1.69	0.72
37:BR:95:PHE:CG	38:BS:21:PHE:CD1	2.75	0.72
40:BU:35:LEU:HA	40:BU:106:ILE:CG1	2.19	0.72
41:BV:40:HIS:NE2	41:BV:42:ILE:HD11	2.03	0.72
41:BV:62:LYS:HA	41:BV:66:HIS:CG	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:85:LEU:HD21	42:B0:117:ILE:HG21	1.70	0.72
1:AA:143:A:OP1	1:AA:201:C:C6	2.39	0.72
1:AA:401:C:OP1	5:AD:77:ILE:C	2.21	0.72
1:AA:499:A:O2'	1:AA:500:G:C5'	2.31	0.72
1:AA:1343:G:O4'	9:AI:138:GLN:CB	2.37	0.72
4:AC:64:ARG:HE	4:AC:68:LEU:HD21	1.52	0.72
4:AC:105:LYS:HG2	4:AC:183:ILE:HG21	1.71	0.72
5:AD:98:ALA:O	5:AD:105:LEU:HB2	1.89	0.72
6:AE:157:THR:OG1	8:AH:127:PHE:CE1	2.42	0.72
9:AI:100:SER:HA	9:AI:116:LEU:CB	2.20	0.72
17:AS:58:LYS:HD2	17:AS:58:LYS:H	1.53	0.72
18:B3:1056:U:O2	18:B3:2494:G:H1'	1.89	0.72
18:B3:1086:A:P	25:BF:89:LYS:HE2	2.29	0.72
18:B3:1120:U:C4	18:B3:1226:G:P	2.81	0.72
18:B3:1441:G:O2'	18:B3:1442:A:H5'	1.89	0.72
18:B3:1708:C:H5'	35:BP:87:ARG:CG	2.19	0.72
18:B3:1808:C:C5	18:B3:2884:G:H5"	2.25	0.72
18:B3:2765:C:OP1	37:BR:87:ARG:NH2	2.23	0.72
18:B3:2796:U:C5'	27:BH:129:ARG:NH1	2.52	0.72
18:B3:2819:C:H5"	22:BC:101:LEU:HD21	1.70	0.72
18:B3:2826:G:C4	22:BC:124:SER:HB2	2.12	0.72
19:B4:51:A:C4	24:BE:58:LYS:HB3	0.43	0.72
20:BA:120:VAL:HA	20:BA:124:LEU:HD13	1.71	0.72
21:BB:97:VAL:HA	21:BB:165:ILE:HG21	1.70	0.72
21:BB:103:LEU:CD2	21:BB:106:VAL:HG11	2.18	0.72
21:BB:116:GLU:HG2	21:BB:162:ARG:NE	2.04	0.72
21:BB:161:ALA:CB	21:BB:162:ARG:HH21	2.02	0.72
21:BB:182:GLY:CA	21:BB:185:PHE:HD1	2.02	0.72
22:BC:69:ARG:CD	37:BR:89:ASP:CA	2.64	0.72
23:BD:31:PRO:CA	23:BD:34:VAL:HG22	2.20	0.72
24:BE:43:LYS:CE	24:BE:65:ILE:HD13	2.20	0.72
24:BE:47:PRO:HB2	24:BE:67:SER:HB3	1.71	0.72
24:BE:103:LEU:HD13	24:BE:104:LEU:HD23	1.72	0.72
25:BF:236:ASN:O	25:BF:239:VAL:HG12	1.89	0.72
26:BG:149:LEU:HD21	26:BG:210:LEU:CG	2.19	0.72
26:BG:159:ILE:HD13	31:BL:40:ARG:HD2	1.71	0.72
27:BH:43:VAL:CB	32:BM:126:LEU:CB	2.25	0.72
29:BJ:16:LEU:HD22	29:BJ:70:VAL:CG1	2.19	0.72
31:BL:26:VAL:HG11	31:BL:122:GLN:CD	2.09	0.72
36:BQ:43:LYS:HE3	36:BQ:95:HIS:NE2	2.04	0.72
36:BQ:74:VAL:N	36:BQ:89:LEU:HD22	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:83:LYS:CE	37:BR:83:LYS:HA	2.19	0.72
41:BV:33:MET:HA	41:BV:33:MET:HE2	1.70	0.72
1:AA:362:G:C4'	12:AL:77:ILE:O	2.36	0.72
1:AA:519:C:OP2	12:AL:66:SER:O	2.07	0.72
1:AA:988:G:O4'	1:AA:1014:A:O5'	2.06	0.72
1:AA:1221:G:H8	17:AS:78:THR:O	1.71	0.72
1:AA:1239:A:N3	7:AG:184:ARG:NH2	2.35	0.72
1:AA:1343:G:C2'	9:AI:136:ARG:O	2.37	0.72
5:AD:72:GLU:OE1	5:AD:105:LEU:HD22	1.89	0.72
9:AI:81:ARG:HD2	9:AI:115:LEU:HD21	1.70	0.72
12:AL:117:ILE:HG13	12:AL:120:VAL:HG22	1.70	0.72
15:AO:75:LYS:HD2	15:AO:76:SER:N	2.04	0.72
18:B3:34:C:O2'	23:BD:49:TYR:CA	2.21	0.72
18:B3:263:U:C4	26:BG:159:ILE:CG1	2.68	0.72
18:B3:449:A:O4'	18:B3:1306:U:C2	2.43	0.72
18:B3:671:A:C3'	23:BD:212:ASN:O	2.37	0.72
18:B3:921:G:C2	41:BV:40:HIS:HB3	2.24	0.72
18:B3:1010:C:O4'	24:BE:15:ARG:HD3	1.45	0.72
18:B3:1056:U:OP1	28:BI:100:ASN:N	2.21	0.72
18:B3:1529:G:H4'	21:BB:69:ARG:HH12	1.51	0.72
18:B3:1597:A:HO2'	35:BP:94:TRP:HH2	1.32	0.72
18:B3:1882:C:P	21:BB:199:ARG:C	2.67	0.72
18:B3:2220:C:O3'	20:BA:212:PRO:CD	2.37	0.72
18:B3:2329:C:O2'	18:B3:2330:U:C5	2.41	0.72
18:B3:2333:G:H2'	29:BJ:114:LYS:HB2	1.69	0.72
18:B3:2336:G:O4'	29:BJ:101:PHE:CE1	2.42	0.72
18:B3:2382:A:C8	46:BZ:10:TYR:CD2	2.78	0.72
18:B3:2442:G:P	41:BV:61:HIS:CE1	2.81	0.72
18:B3:2579:G:C4'	18:B3:2680:A:O4'	2.36	0.72
18:B3:2596:A:C5'	37:BR:73:VAL:CG1	2.63	0.72
18:B3:2738:G:OP2	35:BP:58:SER:O	2.08	0.72
18:B3:2903:C:H6	18:B3:2903:C:H5'	1.55	0.72
19:B4:49:G:OP2	24:BE:158:ARG:CG	2.36	0.72
19:B4:118:C:C4'	24:BE:68:THR:CG2	2.65	0.72
21:BB:47:ILE:HA	21:BB:58:ALA:HA	1.70	0.72
22:BC:104:VAL:HG21	22:BC:198:PHE:CE1	2.24	0.72
24:BE:103:LEU:O	24:BE:103:LEU:HD22	1.90	0.72
27:BH:57:VAL:HG21	32:BM:126:LEU:HD11	0.81	0.72
34:BO:42:ALA:HB3	34:BO:134:GLY:N	2.02	0.72
35:BP:94:TRP:CD1	35:BP:98:LEU:HD13	2.24	0.72
37:BR:91:VAL:CG2	38:BS:16:GLY:O	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:109:GLY:O	41:BV:126:ALA:HB1	1.88	0.72
47:B9:35:ARG:HD3	47:B9:44:LYS:HG3	1.71	0.72
1:AA:123:C:O2'	1:AA:289:G:H1'	1.90	0.72
1:AA:614:A:OP2	5:AD:104:PHE:CZ	2.43	0.72
1:AA:920:U:C4'	1:AA:1080:A:N9	2.51	0.72
1:AA:1299:A:H5'	13:AM:57:ARG:NH2	2.03	0.72
1:AA:1329:A:O5'	13:AM:98:TYR:CE1	2.36	0.72
1:AA:1344:C:OP1	9:AI:136:ARG:HB2	1.90	0.72
2:AT:718:LEU:HB3	2:AT:835:TRP:HB3	1.71	0.72
3:AB:121:ILE:HB	3:AB:143:ILE:HD11	1.71	0.72
4:AC:114:ILE:CG2	4:AC:141:LEU:HG	2.19	0.72
6:AE:126:ALA:O	6:AE:129:ILE:HG22	1.88	0.72
17:AS:89:MET:CB	17:AS:107:ILE:HD11	2.20	0.72
18:B3:99:A:C5	40:BU:24:SER:HB3	2.24	0.72
18:B3:100:C:H1'	40:BU:24:SER:HB2	0.73	0.72
18:B3:452:G:C8	23:BD:193:TYR:HD2	2.07	0.72
18:B3:1132:A:C2'	18:B3:2521:A:C4'	0.89	0.72
18:B3:1167:G:HO2'	30:BK:111:GLU:HA	1.51	0.72
18:B3:1180:C:O2	30:BK:110:ILE:CG1	2.37	0.72
18:B3:1268:C:P	42:B0:61:LYS:HG2	2.28	0.72
20:BA:159:LEU:HD12	20:BA:164:CYS:O	1.88	0.72
21:BB:195:TRP:HA	21:BB:195:TRP:CE3	2.23	0.72
22:BC:39:PRO:HD2	22:BC:193:TRP:HB2	1.71	0.72
22:BC:42:LEU:CA	22:BC:180:ILE:HD13	2.15	0.72
22:BC:247:LYS:H	22:BC:247:LYS:CE	2.01	0.72
22:BC:316:ILE:HG21	22:BC:320:PHE:CE1	2.24	0.72
23:BD:221:VAL:HG13	23:BD:222:PRO:N	2.04	0.72
24:BE:33:ARG:HG3	24:BE:33:ARG:HH11	1.52	0.72
24:BE:34:LYS:O	24:BE:34:LYS:HD3	1.88	0.72
25:BF:168:ILE:CD1	25:BF:183:LEU:HD21	2.19	0.72
26:BG:117:GLU:HG3	26:BG:213:LEU:HD13	1.71	0.72
26:BG:159:ILE:HG22	26:BG:161:LEU:N	2.04	0.72
26:BG:203:ARG:NE	26:BG:207:GLU:HA	2.04	0.72
27:BH:104:VAL:HG13	27:BH:111:PHE:HD1	1.54	0.72
33:BN:13:SER:HB2	33:BN:149:VAL:HG21	1.69	0.72
35:BP:87:ARG:C	35:BP:88:LEU:HD23	2.10	0.72
40:BU:26:GLN:O	40:BU:29:VAL:HG22	1.88	0.72
1:AA:13:U:O3'	1:AA:914:A:H3'	1.89	0.72
1:AA:32:A:H2	12:AL:47:SER:H	1.36	0.72
1:AA:121:C:O2	1:AA:126:G:O6	2.07	0.72
1:AA:364:A:OP1	12:AL:50:LYS:CE	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:402:G:N9	1:AA:621:A:C2	2.58	0.72
1:AA:599:C:O3'	8:AH:121:SER:OG	2.04	0.72
1:AA:1504:G:H8	1:AA:1508:G:H5'	1.53	0.72
6:AE:127:GLY:O	6:AE:130:ILE:HG22	1.90	0.72
10:AJ:69:LYS:CB	14:AN:39:ARG:NH2	2.49	0.72
10:AJ:69:LYS:CE	14:AN:39:ARG:NH2	2.33	0.72
10:AJ:76:SER:OG	14:AN:27:THR:HG21	1.83	0.72
12:AL:101:GLU:HB2	12:AL:132:LEU:HD23	1.71	0.72
15:AO:91:ILE:HG13	15:AO:92:LYS:HD2	1.71	0.72
18:B3:51:G:C4'	45:BY:20:ARG:CB	2.65	0.72
18:B3:82:C:P	40:BU:75:ARG:CB	2.77	0.72
18:B3:921:G:H3'	41:BV:40:HIS:HB2	1.70	0.72
18:B3:1116:U:O2'	18:B3:1118:A:H2	1.70	0.72
18:B3:1168:C:H6	30:BK:114:ARG:HH12	0.79	0.72
18:B3:1415:G:C8	45:BY:11:HIS:NE2	2.57	0.72
18:B3:1669:A:H2'	18:B3:1670:G:C8	2.25	0.72
18:B3:1673:U:C1'	39:BT:90:ASN:C	2.35	0.72
18:B3:1673:U:C2'	39:BT:91:LYS:N	2.52	0.72
18:B3:1875:A:P	21:BB:150:PRO:HG3	2.28	0.72
18:B3:2066:C:OP2	22:BC:255:HIS:HB3	1.89	0.72
18:B3:2559:C:C4'	18:B3:2799:A:H4'	2.19	0.72
18:B3:2659:U:O2'	33:BN:76:GLY:HA2	1.90	0.72
18:B3:2820:A:C1'	22:BC:89:VAL:CB	2.67	0.72
18:B3:2828:G:O3'	22:BC:130:THR:HG23	1.89	0.72
22:BC:158:ARG:HB3	22:BC:158:ARG:CZ	2.20	0.72
27:BH:64:HIS:ND1	32:BM:127:ARG:CB	2.53	0.72
27:BH:129:ARG:HG3	27:BH:153:ASP:O	1.89	0.72
32:BM:25:GLN:CG	32:BM:30:GLN:HB2	2.18	0.72
32:BM:34:VAL:HG11	32:BM:79:PHE:CE2	2.25	0.72
34:BO:81:VAL:CB	34:BO:140:LEU:HD12	2.19	0.72
35:BP:13:VAL:CG2	35:BP:41:ARG:HG3	2.19	0.72
37:BR:54:LEU:CD2	37:BR:81:GLN:HB2	2.19	0.72
43:BW:10:GLU:HG2	43:BW:69:ARG:HG3	1.70	0.72
46:BZ:59:LYS:N	46:BZ:59:LYS:HE3	2.04	0.72
1:AA:25:C:C2'	12:AL:109:ARG:NH1	2.53	0.72
1:AA:118:U:C1'	1:AA:122:G:C1'	2.65	0.72
1:AA:401:C:H2'	1:AA:621:A:C4	2.11	0.72
1:AA:404:U:O4	5:AD:70:LEU:CD1	2.37	0.72
1:AA:677:U:C4	11:AK:123:ASP:CA	2.72	0.72
1:AA:1147:C:HO2'	9:AI:9:PHE:HE1	1.36	0.72
2:AT:141:THR:HG21	2:AT:483:PHE:HB3	1.66	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:25:THR:HG22	10:AJ:115:GLU:O	1.89	0.72
12:AL:101:GLU:N	12:AL:132:LEU:HD23	2.04	0.72
13:AM:117:LYS:HD3	13:AM:128:PHE:CE1	2.25	0.72
17:AS:56:PHE:O	17:AS:60:LEU:HD13	1.89	0.72
18:B3:1137:G:C4	18:B3:2785:C:H5	2.08	0.72
18:B3:1181:A:C4	30:BK:106:LEU:CD1	2.68	0.72
18:B3:1687:C:H1'	45:BY:8:GLY:O	1.90	0.72
18:B3:1814:G:C3'	18:B3:2733:U:C6	2.73	0.72
18:B3:1816:C:H5"	18:B3:2747:C:P	2.27	0.72
18:B3:1943:C:H5"	21:BB:218:ILE:HG13	1.71	0.72
18:B3:2346:C:O2'	29:BJ:66:VAL:C	2.07	0.72
18:B3:2818:A:C4'	22:BC:99:ARG:NH1	2.53	0.72
20:BA:153:SER:N	20:BA:158:GLN:CD	2.41	0.72
22:BC:217:ILE:HG22	22:BC:275:THR:HA	1.70	0.72
23:BD:181:LEU:CB	23:BD:202:ARG:HA	2.20	0.72
24:BE:16:PHE:CB	36:BQ:19:PHE:CZ	2.60	0.72
24:BE:208:MET:CG	24:BE:211:LEU:HD22	2.20	0.72
26:BG:121:LYS:HE2	26:BG:210:LEU:HB2	1.72	0.72
26:BG:203:ARG:CD	26:BG:207:GLU:HA	2.19	0.72
27:BH:63:LYS:NZ	32:BM:130:PRO:CB	2.31	0.72
28:BI:53:VAL:HG21	28:BI:164:LYS:HB3	1.70	0.72
28:BI:59:GLN:CG	28:BI:126:ALA:HB3	2.19	0.72
29:BJ:25:SER:OG	29:BJ:32:ALA:HB3	1.90	0.72
31:BL:186:ARG:NH1	31:BL:191:LYS:HG2	2.04	0.72
32:BM:7:VAL:O	32:BM:115:LYS:HB3	1.89	0.72
32:BM:15:VAL:CG1	32:BM:40:LEU:HG	2.18	0.72
35:BP:5:THR:O	35:BP:8:ARG:HB2	1.90	0.72
35:BP:18:LYS:NZ	35:BP:18:LYS:HA	2.05	0.72
36:BQ:39:ILE:CG1	36:BQ:99:SER:HB3	2.19	0.72
38:BS:47:ARG:HB3	38:BS:47:ARG:CZ	2.19	0.72
39:BT:65:PRO:HA	39:BT:83:PHE:HB3	1.71	0.72
40:BU:40:ARG:NH2	40:BU:41:ALA:HB3	2.03	0.72
40:BU:53:ASP:HB3	40:BU:110:HIS:HB2	1.72	0.72
40:BU:89:LYS:HD3	40:BU:93:ALA:N	2.05	0.72
45:BY:9:LYS:HE2	45:BY:10:ARG:CB	2.19	0.72
47:B9:28:LEU:HD22	47:B9:29:GLU:N	2.05	0.72
1:AA:13:U:O3'	1:AA:914:A:C3'	2.36	0.72
1:AA:124:G:OP1	1:AA:311:C:O2	2.07	0.72
1:AA:190(C):C:N4	16:AQ:111:SER:HB2	2.05	0.72
1:AA:546:G:C4'	1:AA:549:C:H5'	2.19	0.72
1:AA:554:C:H5'	12:AL:45:GLY:H	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:H5”	9:AI:134:ARG:HG2	1.70	0.72
4:AC:74:LYS:O	4:AC:77:LYS:HD3	1.90	0.72
4:AC:167:ILE:HD11	4:AC:188:MET:HG2	1.71	0.72
10:AJ:72:ASN:OD1	14:AN:26:HIS:CA	2.37	0.72
10:AJ:73:GLY:N	14:AN:38:CYS:CA	2.52	0.72
18:B3:52:A:C5’	45:BY:20:ARG:HD2	2.20	0.72
18:B3:763:C:C2’	23:BD:86:GLN:HG2	2.19	0.72
18:B3:1153:C:H3’	18:B3:1155:G:C8	2.24	0.72
18:B3:1285:U:O3’	25:BF:155:ILE:CG1	2.37	0.72
18:B3:1352:A:O4’	23:BD:102:THR:CG2	2.32	0.72
18:B3:1739:G:H4’	18:B3:2726:U:N3	1.94	0.72
18:B3:2337:G:O2’	29:BJ:127:TYR:CA	2.38	0.72
19:B4:97:U:N3	25:BF:220:LYS:CE	2.52	0.72
20:BA:53:LEU:HD13	20:BA:186:SER:HA	1.70	0.72
21:BB:190:LEU:H	21:BB:190:LEU:HD23	1.53	0.72
22:BC:92:VAL:HG13	22:BC:153:TYR:HB2	1.72	0.72
22:BC:112:GLU:HB2	22:BC:173:LYS:HB2	1.69	0.72
22:BC:160:LEU:O	22:BC:161:VAL:HG22	1.90	0.72
22:BC:169:PRO:HB2	22:BC:313:TYR:HB3	1.70	0.72
22:BC:359:ASP:CB	38:BS:16:GLY:C	2.35	0.72
23:BD:155:LEU:O	23:BD:155:LEU:HD13	1.89	0.72
23:BD:235:LEU:HD12	23:BD:236:GLN:N	2.04	0.72
25:BF:115:PHE:HB3	25:BF:194:PHE:HE2	1.51	0.72
26:BG:203:ARG:CD	26:BG:210:LEU:HB3	2.18	0.72
27:BH:117:PHE:HE2	27:BH:120:ASP:HB2	1.53	0.72
31:BL:107:ARG:HA	31:BL:107:ARG:NH1	2.03	0.72
31:BL:141:ILE:HG12	31:BL:147:TYR:CZ	2.24	0.72
32:BM:10:GLY:O	32:BM:36:ARG:HB3	1.89	0.72
32:BM:60:ALA:HB1	32:BM:71:HIS:CD2	2.24	0.72
40:BU:45:ILE:HD12	40:BU:47:ALA:N	2.04	0.72
40:BU:48:LEU:HD12	40:BU:106:ILE:CD1	2.19	0.72
42:B0:66:LEU:HD21	42:B0:70:GLY:CA	2.19	0.72
43:BW:59:TRP:HH2	43:BW:66:VAL:CG1	2.03	0.72
47:B9:29:GLU:HB2	47:B9:32:GLN:NE2	2.05	0.72
47:B9:35:ARG:HB2	47:B9:44:LYS:HD3	1.72	0.72
1:AA:25:C:C4’	12:AL:109:ARG:CD	2.66	0.72
1:AA:99:C:C1’	1:AA:101:A:C6	2.73	0.72
1:AA:111:G:H1’	1:AA:389:A:H4’	1.70	0.72
1:AA:579:G:O3’	15:AO:112:PHE:HZ	1.73	0.72
1:AA:978:A:HO2’	17:AS:81:ARG:CG	2.02	0.72
1:AA:1180:A:P	9:AI:114:THR:HG21	2.28	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1314:C:N4	17:AS:49:MET:N	2.36	0.72
6:AE:138:ILE:HD12	6:AE:217:ILE:CD1	2.20	0.72
6:AE:155:THR:HB	8:AH:96:ARG:HA	1.71	0.72
10:AJ:73:GLY:N	14:AN:25:SER:O	2.23	0.72
11:AK:40:ARG:HB3	11:AK:66:VAL:HG23	1.72	0.72
16:AQ:93:ILE:HD11	16:AQ:96:TYR:CB	2.10	0.72
18:B3:107:U:O2	44:BX:56:THR:HG21	1.90	0.72
18:B3:375:G:H22	18:B3:411:A:H8	0.74	0.72
18:B3:1018:A:O2'	36:BQ:60:LYS:CG	2.38	0.72
18:B3:1168:C:O4'	30:BK:110:ILE:CG2	2.38	0.72
18:B3:1687:C:C1'	45:BY:8:GLY:O	2.38	0.72
18:B3:1708:C:OP1	35:BP:81:LYS:N	2.22	0.72
18:B3:1805:G:C5	18:B3:2883:A:C2	2.77	0.72
18:B3:1993:C:H1'	37:BR:72:LYS:CD	2.19	0.72
18:B3:1993:C:H1'	37:BR:72:LYS:HG2	0.73	0.72
18:B3:2338:G:O5'	29:BJ:126:PHE:CB	2.37	0.72
18:B3:2763:G:P	37:BR:14:SER:HB3	2.29	0.72
18:B3:2851:G:O2'	18:B3:2852:A:H5'	1.90	0.72
19:B4:34:A:N3	24:BE:185:PHE:HD1	1.87	0.72
20:BA:50:SER:OG	20:BA:154:THR:CG2	2.34	0.72
22:BC:91:TYR:HB3	22:BC:99:ARG:HH21	1.55	0.72
22:BC:331:ARG:HB2	22:BC:332:LYS:HZ3	1.54	0.72
24:BE:87:GLY:CA	24:BE:222:LEU:HD23	2.20	0.72
26:BG:112:ALA:O	26:BG:115:VAL:HG12	1.89	0.72
27:BH:43:VAL:HG12	32:BM:126:LEU:CB	2.11	0.72
28:BI:102:MET:HB3	28:BI:113:GLN:HG3	1.71	0.72
30:BK:22:VAL:HG23	30:BK:43:GLY:CA	2.19	0.72
31:BL:16:ASP:O	31:BL:19:ARG:HG2	1.90	0.72
33:BN:122:PRO:O	33:BN:142:PRO:HG2	1.90	0.72
37:BR:67:PRO:CB	37:BR:69:LEU:HD23	2.19	0.72
37:BR:77:ILE:HD12	37:BR:77:ILE:O	1.89	0.72
39:BT:109:VAL:CG2	39:BT:123:VAL:HG22	2.20	0.72
40:BU:11:ASP:O	40:BU:12:ARG:HG3	1.89	0.72
41:BV:91:LYS:HD2	41:BV:92:SER:N	2.05	0.72
41:BV:98:ALA:HA	41:BV:125:LYS:CE	2.18	0.72
42:B0:96:ILE:HD13	42:B0:109:LEU:CD1	2.18	0.72
1:AA:6:G:H4'	1:AA:298:A:C4'	2.14	0.72
1:AA:21:G:H4'	1:AA:885:G:C5'	2.13	0.72
1:AA:190(E):U:O3'	16:AQ:109:HIS:HE1	1.69	0.72
1:AA:318:G:H21	1:AA:1433:A:N6	1.87	0.72
1:AA:568:G:OP1	6:AE:163:SER:OG	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:977:A:H2'	1:AA:978:A:H5"	1.72	0.72
1:AA:1065:U:H4'	1:AA:1066:C:O5'	1.89	0.72
1:AA:1074:G:H4'	3:AB:112:ARG:HH21	1.53	0.72
1:AA:1309:G:O2'	13:AM:112:ASP:CG	2.28	0.72
1:AA:1320:C:O2'	13:AM:122:HIS:CD2	2.43	0.72
1:AA:1321:C:O4'	17:AS:118:GLU:C	2.28	0.72
3:AB:52:THR:HG21	3:AB:161:CYS:SG	2.30	0.72
11:AK:41:VAL:CG2	11:AK:44:GLY:H	2.02	0.72
18:B3:401:C:C4'	31:BL:94:GLN:CA	2.66	0.72
18:B3:672:G:OP1	23:BD:214:ILE:HD13	1.90	0.72
18:B3:693:A:O3'	41:BV:59:TYR:CE2	2.43	0.72
18:B3:1098:A:H5"	25:BF:217:ARG:HB2	1.72	0.72
18:B3:1099:G:H3'	19:B4:87:U:N3	1.98	0.72
18:B3:1182:U:C5'	30:BK:104:ILE:H	2.01	0.72
18:B3:1306:U:H6	23:BD:194:ARG:HH22	1.34	0.72
18:B3:1348:A:H4'	23:BD:241:ALA:HB2	1.72	0.72
18:B3:1352:A:O4'	23:BD:50:ALA:HA	1.90	0.72
18:B3:1761:U:O2'	35:BP:80:ARG:CZ	2.38	0.72
18:B3:1810:C:N1	18:B3:2753:G:H1'	1.70	0.72
18:B3:1872:C:C2	21:BB:23:GLN:O	2.43	0.72
18:B3:1943:C:H4'	21:BB:218:ILE:HD12	1.67	0.72
18:B3:2434:A:P	46:BZ:35:PHE:HB3	2.29	0.72
18:B3:2557:U:H2'	18:B3:2800:A:C8	2.25	0.72
18:B3:2653:A:C4'	22:BC:257:ALA:N	2.52	0.72
18:B3:2716:G:O2'	22:BC:327:ILE:O	2.08	0.72
18:B3:2781:U:C1'	27:BH:155:SER:HB2	2.19	0.72
20:BA:51:GLY:N	20:BA:54:LYS:CB	2.52	0.72
21:BB:154:LYS:H	21:BB:154:LYS:HE3	1.54	0.72
23:BD:206:VAL:O	23:BD:207:VAL:HG12	1.90	0.72
23:BD:208:TYR:CZ	23:BD:218:LEU:HD12	2.24	0.72
24:BE:107:ARG:HB2	24:BE:226:TYR:HE1	1.55	0.72
26:BG:115:VAL:HG23	26:BG:214:VAL:CG1	2.19	0.72
26:BG:139:VAL:O	26:BG:142:ILE:HG13	1.89	0.72
27:BH:12:VAL:N	27:BH:52:LEU:HD22	2.04	0.72
28:BI:49:CYS:CA	28:BI:139:ARG:HG3	2.20	0.72
32:BM:34:VAL:HG11	32:BM:79:PHE:HE2	1.54	0.72
34:BO:122:ILE:HD12	34:BO:124:LEU:N	2.03	0.72
37:BR:22:ILE:HG21	37:BR:33:ASN:HD22	1.54	0.72
37:BR:54:LEU:HD11	37:BR:80:ARG:C	2.10	0.72
37:BR:76:ALA:HB2	37:BR:102:ILE:HA	1.72	0.72
43:BW:9:ARG:NH2	43:BW:72:LEU:HD11	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:29:GLU:HB3	47:B9:31:GLN:CA	2.20	0.72
1:AA:1224:G:OP2	13:AM:139:LYS:HD3	1.89	0.71
3:AB:145:LEU:HD11	3:AB:161:CYS:HB2	1.73	0.71
9:AI:13:LYS:CE	9:AI:75:SER:HA	2.18	0.71
9:AI:66:VAL:HG21	9:AI:80:ILE:CD1	2.17	0.71
9:AI:81:ARG:HG2	9:AI:115:LEU:HD22	1.71	0.71
18:B3:677:C:C4'	23:BD:256:LYS:CG	2.68	0.71
18:B3:1067:A:H5"	25:BF:96:PRO:CG	2.17	0.71
18:B3:1286:A:OP2	25:BF:155:ILE:HG23	1.89	0.71
18:B3:1305:C:C2	23:BD:194:ARG:NH2	2.51	0.71
18:B3:1350:U:C5	23:BD:46:ARG:NH2	2.55	0.71
18:B3:1694:G:H21	45:BY:5:PRO:CG	0.70	0.71
18:B3:1708:C:OP1	35:BP:87:ARG:HD3	1.89	0.71
18:B3:1807:U:H5'	18:B3:2884:G:C4	2.24	0.71
18:B3:1809:G:N2	18:B3:2732:U:C5'	2.53	0.71
18:B3:1993:C:H5"	37:BR:70:ARG:HH22	1.54	0.71
18:B3:2165:G:C2'	20:BA:33:GLU:HG3	2.20	0.71
18:B3:2866:U:H1'	18:B3:2891:A:C4	2.25	0.71
19:B4:5:G:C2	24:BE:71:GLY:O	2.43	0.71
19:B4:49:G:P	24:BE:158:ARG:HA	2.29	0.71
21:BB:97:VAL:HA	21:BB:165:ILE:CG2	2.20	0.71
22:BC:13:LEU:HD11	22:BC:262:SER:OG	1.88	0.71
22:BC:70:GLU:N	37:BR:88:ARG:HG2	1.76	0.71
23:BD:61:ALA:HA	23:BD:76:VAL:O	1.90	0.71
23:BD:150:VAL:HB	23:BD:251:GLU:CG	2.19	0.71
23:BD:221:VAL:HG22	23:BD:222:PRO:CD	2.20	0.71
25:BF:111:ASN:O	25:BF:206:LEU:HB3	1.90	0.71
29:BJ:13:ILE:HG23	29:BJ:162:PHE:HE2	1.55	0.71
32:BM:52:LYS:HA	32:BM:58:ARG:HE	1.54	0.71
33:BN:106:LEU:HD23	33:BN:111:LEU:CD2	2.20	0.71
35:BP:23:LEU:HD23	35:BP:24:ASP:H	1.55	0.71
37:BR:40:LYS:CD	37:BR:57:MET:HB3	2.19	0.71
41:BV:20:ARG:HH11	41:BV:20:ARG:HA	1.54	0.71
1:AA:190(D):U:N3	16:AQ:111:SER:HB2	2.04	0.71
1:AA:190(E):U:N3	16:AQ:131:SER:CA	2.53	0.71
1:AA:363:A:O2'	12:AL:49:ALA:CA	2.37	0.71
1:AA:668:G:O2'	15:AO:104:ASN:CG	2.28	0.71
1:AA:688:G:H5'	11:AK:49:ALA:HB3	1.72	0.71
1:AA:706:A:H5'	11:AK:23:ASN:ND2	2.02	0.71
1:AA:748:C:H1'	1:AA:749:C:H5	1.53	0.71
1:AA:754:C:O4'	15:AO:127:TYR:CZ	2.43	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:777:A:O2'	11:AK:125:THR:O	2.08	0.71
1:AA:1279:A:H5"	1:AA:1280:A:OP1	1.88	0.71
1:AA:1314:C:C4	17:AS:49:MET:CA	2.57	0.71
2:AT:763:THR:N	2:AT:764:PRO:HD3	2.05	0.71
2:AT:799:ASP:OD1	2:AT:800:HIS:HD2	1.72	0.71
6:AE:204:ARG:HB3	6:AE:207:GLU:HB3	1.71	0.71
6:AE:205:THR:OG1	6:AE:206:LEU:HD22	1.91	0.71
7:AG:163:PRO:O	7:AG:166:ARG:HG3	1.90	0.71
7:AG:185:ASN:O	7:AG:186:ILE:HG22	1.90	0.71
10:AJ:72:ASN:ND2	14:AN:27:THR:C	2.42	0.71
18:B3:57:C:C1'	44:BX:35:LYS:HE3	2.16	0.71
18:B3:81:G:O3'	40:BU:75:ARG:CB	2.37	0.71
18:B3:107:U:H5'	44:BX:57:VAL:C	2.10	0.71
18:B3:120:A:O2'	45:BY:17:LEU:HD11	1.90	0.71
18:B3:553:G:OP2	42:B0:71:HIS:HD2	1.67	0.71
18:B3:765:G:C5'	23:BD:84:SER:CB	2.68	0.71
18:B3:1127:C:H1'	18:B3:2491:G:O2'	1.88	0.71
18:B3:1134:G:O4'	18:B3:1229:C:P	2.48	0.71
18:B3:1507:C:H4'	39:BT:74:LYS:CD	2.05	0.71
18:B3:1652:C:H5'	21:BB:174:VAL:HG11	1.71	0.71
18:B3:1993:C:N1	37:BR:72:LYS:HG2	1.92	0.71
18:B3:2369:A:P	24:BE:31:TYR:CZ	2.70	0.71
18:B3:2672:C:C5'	22:BC:31:PHE:HZ	2.03	0.71
18:B3:2819:C:H2'	22:BC:100:SER:CA	2.20	0.71
21:BB:138:HIS:HB2	21:BB:141:ASP:CB	2.19	0.71
21:BB:139:ASN:HB2	21:BB:140:PRO:HD3	1.71	0.71
21:BB:226:ARG:HH11	21:BB:227:GLY:HA3	1.55	0.71
23:BD:194:ARG:NH2	23:BD:195:ASN:HB2	2.03	0.71
23:BD:207:VAL:CG2	23:BD:236:GLN:HG2	2.19	0.71
25:BF:146:LEU:HD22	25:BF:239:VAL:CG2	2.20	0.71
25:BF:167:ILE:HB	25:BF:179:SER:CB	2.06	0.71
26:BG:113:ALA:H	26:BG:119:LYS:HA	1.53	0.71
27:BH:173:ARG:HB2	27:BH:173:ARG:NH1	2.05	0.71
28:BI:69:ARG:HG3	28:BI:69:ARG:HH11	1.52	0.71
31:BL:168:LYS:HD2	31:BL:169:LYS:N	2.05	0.71
32:BM:4:PRO:HB3	32:BM:7:VAL:HG23	1.71	0.71
32:BM:42:ILE:HD13	32:BM:136:THR:OG1	1.90	0.71
32:BM:84:ARG:NE	32:BM:87:VAL:HG21	2.05	0.71
32:BM:93:ARG:CZ	32:BM:94:GLY:HA2	2.20	0.71
33:BN:107:ASP:CB	33:BN:110:LYS:HD3	2.20	0.71
34:BO:130:ARG:HG2	34:BO:131:ALA:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:24:ASP:HB3	35:BP:25:PRO:C	2.10	0.71
35:BP:80:ARG:HG2	35:BP:87:ARG:CD	2.20	0.71
36:BQ:34:TYR:CE2	36:BQ:93:VAL:HG12	2.24	0.71
37:BR:22:ILE:CG2	37:BR:33:ASN:HD22	2.03	0.71
40:BU:48:LEU:HD13	40:BU:109:LEU:HD12	1.73	0.71
41:BV:33:MET:HA	41:BV:33:MET:CE	2.19	0.71
41:BV:78:TRP:HD1	41:BV:117:ILE:HD11	1.54	0.71
44:BX:10:ARG:NH1	44:BX:10:ARG:HB3	2.05	0.71
1:AA:65:U:C1'	1:AA:96:G:OP2	2.27	0.71
1:AA:65:U:H2'	1:AA:383:A:C2	2.26	0.71
1:AA:293:G:C3'	1:AA:610:G:H1'	2.19	0.71
1:AA:318:G:C1'	1:AA:1468:A:H4'	2.20	0.71
1:AA:1348:U:C3'	9:AI:134:ARG:HB2	2.21	0.71
9:AI:54:VAL:HG12	9:AI:88:LEU:CD2	2.20	0.71
13:AM:62:THR:HG22	13:AM:64:GLU:H	1.55	0.71
14:AN:21:ARG:CB	14:AN:35:LEU:HD23	2.20	0.71
14:AN:22:VAL:HG13	14:AN:23:CYS:H	1.54	0.71
15:AO:120:ARG:HB2	15:AO:120:ARG:NH1	2.05	0.71
17:AS:85:ILE:HG23	17:AS:116:LEU:HG	1.71	0.71
18:B3:107:U:H6	44:BX:60:GLU:C	1.91	0.71
18:B3:721:A:C2	34:BO:141:ARG:CG	2.73	0.71
18:B3:898:G:H5"	41:BV:25:ARG:NE	2.05	0.71
18:B3:1192:A:N6	30:BK:108:GLU:OE2	2.06	0.71
18:B3:1231:A:H2'	18:B3:2553:A:C6	2.23	0.71
18:B3:1360:C:H1'	23:BD:88:ALA:HB3	1.72	0.71
18:B3:2263:G:H5"	31:BL:70:ARG:NE	2.02	0.71
18:B3:2275:G:H5"	31:BL:78:ALA:HA	1.71	0.71
18:B3:2579:G:P	18:B3:2680:A:H5'	2.31	0.71
18:B3:2717:C:C5'	22:BC:327:ILE:O	2.33	0.71
18:B3:2847:G:O3'	22:BC:173:LYS:HE2	1.90	0.71
19:B4:51:A:C4	24:BE:58:LYS:CB	0.76	0.71
21:BB:31:LEU:HD23	21:BB:36:ARG:HB3	1.72	0.71
21:BB:115:VAL:HG23	21:BB:125:LEU:CD1	2.13	0.71
22:BC:89:VAL:HG23	22:BC:91:TYR:CE2	2.25	0.71
22:BC:92:VAL:N	22:BC:101:LEU:HD21	2.04	0.71
22:BC:109:LEU:HD13	22:BC:110:SER:O	1.90	0.71
22:BC:121:TRP:CH2	22:BC:123:LYS:HD3	2.25	0.71
22:BC:280:LYS:O	22:BC:324:LYS:HE2	1.89	0.71
23:BD:9:SER:CB	23:BD:15:THR:HG21	2.20	0.71
23:BD:155:LEU:CD2	23:BD:158:ILE:HD12	2.19	0.71
26:BG:115:VAL:HB	26:BG:210:LEU:CD2	2.19	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:162:GLN:OE1	27:BH:181:VAL:HG12	1.89	0.71
28:BI:52:LEU:CD1	28:BI:137:SER:HA	2.20	0.71
28:BI:104:SER:N	28:BI:112:GLN:HB2	2.05	0.71
29:BJ:67:HIS:CD2	29:BJ:68:VAL:HG23	2.24	0.71
31:BL:163:LEU:HD12	31:BL:165:ALA:H	1.55	0.71
32:BM:13:HIS:CE1	32:BM:118:VAL:HG12	2.25	0.71
40:BU:35:LEU:CB	40:BU:39:LEU:HD23	2.20	0.71
40:BU:72:SER:HB3	40:BU:80:VAL:HG22	1.73	0.71
1:AA:69:G:C2'	1:AA:171:A:C5	2.72	0.71
1:AA:678:U:C6	11:AK:125:THR:O	2.38	0.71
1:AA:924:C:O4'	1:AA:1398:A:C6	2.44	0.71
1:AA:990:C:C6	1:AA:1016:A:C4	2.78	0.71
1:AA:1148:U:C5'	9:AI:9:PHE:HZ	1.98	0.71
1:AA:1220:G:OP2	17:AS:80:MET:CB	2.38	0.71
1:AA:1343:G:O4'	9:AI:138:GLN:HA	1.76	0.71
2:AT:138:GLN:HE21	18:B3:2698:G:H5"	1.11	0.71
3:AB:83:ARG:O	3:AB:86:LEU:HG	1.89	0.71
8:AH:39:VAL:CG1	8:AH:102:ILE:HD12	2.14	0.71
16:AQ:76:SER:HB3	16:AQ:84:VAL:CG1	2.20	0.71
17:AS:56:PHE:HB3	17:AS:58:LYS:HE2	1.71	0.71
18:B3:820:G:O6	21:BB:181:ALA:CB	2.38	0.71
18:B3:1056:U:C2	18:B3:2494:G:H1'	2.25	0.71
18:B3:1167:G:C4	30:BK:110:ILE:HB	2.25	0.71
18:B3:1343:C:H2'	23:BD:188:ALA:HA	0.72	0.71
18:B3:1381:A:H8	43:BW:25:LYS:HZ3	1.36	0.71
18:B3:1812:G:C1'	18:B3:2732:U:O3'	2.34	0.71
18:B3:2103:A:H62	18:B3:2538:A:H2	1.37	0.71
18:B3:2438:G:O4'	46:BZ:14:LYS:NZ	2.23	0.71
18:B3:2526:C:H4'	18:B3:2605:G:H5"	0.72	0.71
19:B4:47:A:H4'	24:BE:154:THR:N	2.03	0.71
21:BB:67:LYS:HG3	21:BB:73:GLU:N	2.05	0.71
22:BC:46:LEU:HD13	22:BC:338:ARG:HG3	1.71	0.71
22:BC:225:PHE:HA	22:BC:267:GLY:O	1.90	0.71
24:BE:16:PHE:CD1	36:BQ:19:PHE:HE1	2.05	0.71
24:BE:33:ARG:HA	24:BE:36:LEU:CG	2.18	0.71
24:BE:64:ILE:HG21	24:BE:109:THR:CG2	2.20	0.71
27:BH:63:LYS:HD2	32:BM:129:LYS:HB3	0.75	0.71
28:BI:47:PRO:HG2	28:BI:141:LYS:CA	2.17	0.71
28:BI:55:ASN:ND2	28:BI:164:LYS:HB2	2.05	0.71
29:BJ:91:ARG:CD	29:BJ:159:VAL:HG21	2.21	0.71
32:BM:4:PRO:HA	32:BM:32:ILE:CG1	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:111:LEU:HD11	33:BN:151:GLU:OE2	1.90	0.71
35:BP:48:THR:HG23	35:BP:49:ILE:CG1	2.10	0.71
37:BR:25:CYS:HB2	37:BR:32:ARG:NH2	2.06	0.71
40:BU:31:LEU:HA	40:BU:101:PRO:HG2	1.72	0.71
41:BV:120:VAL:HB	41:BV:121:PRO:C	2.10	0.71
1:AA:132:C:O2	1:AA:263:A:C2	2.43	0.71
1:AA:238:G:H8	1:AA:240:C:OP2	1.73	0.71
1:AA:546:G:H4'	1:AA:549:C:H5'	1.71	0.71
1:AA:1302:U:C5	13:AM:47:CYS:HB3	2.25	0.71
1:AA:1504:G:H4'	1:AA:1506:U:C2'	2.21	0.71
2:AT:284:LEU:HD13	2:AT:324:MET:HE3	1.72	0.71
4:AC:143:ALA:HB1	4:AC:178:GLN:HG2	1.71	0.71
5:AD:101:VAL:HB	5:AD:191:ALA:N	2.05	0.71
11:AK:113:ARG:HD2	11:AK:115:GLU:OE2	1.91	0.71
13:AM:101:LEU:N	13:AM:105:VAL:HG21	2.03	0.71
18:B3:107:U:C1'	44:BX:56:THR:CG2	2.62	0.71
18:B3:390:G:P	46:BZ:47:SER:CB	2.78	0.71
18:B3:500:G:H21	33:BN:96:ASN:HD21	0.71	0.71
18:B3:1154:A:C8	18:B3:1155:G:O2'	2.43	0.71
18:B3:1335:C:C5'	42:B0:96:ILE:O	2.39	0.71
18:B3:1384:C:O2'	43:BW:50:LEU:CD1	2.38	0.71
18:B3:1446:U:OP1	39:BT:70:THR:N	2.22	0.71
18:B3:1744:G:O2'	37:BR:21:ALA:CA	2.33	0.71
18:B3:1784:U:C2	35:BP:77:TYR:CE2	2.77	0.71
18:B3:2061:C:C4'	42:B0:24:ARG:HD2	2.21	0.71
18:B3:2283:G:C5'	28:BI:114:GLY:CA	1.94	0.71
18:B3:2346:C:H4'	29:BJ:46:GLN:O	1.91	0.71
19:B4:47:A:C3'	24:BE:160:PHE:CE2	2.71	0.71
20:BA:54:LYS:CG	20:BA:156:LYS:CG	2.65	0.71
20:BA:55:LEU:HD23	20:BA:167:VAL:HG22	1.53	0.71
23:BD:64:TRP:CZ3	23:BD:67:GLY:HA3	2.25	0.71
23:BD:191:GLY:CA	23:BD:194:ARG:HH11	2.04	0.71
26:BG:145:LYS:HD2	26:BG:145:LYS:O	1.90	0.71
27:BH:12:VAL:HG11	27:BH:79:ILE:HD13	1.72	0.71
27:BH:46:THR:HA	27:BH:55:VAL:CG2	2.20	0.71
29:BJ:32:ALA:H	29:BJ:34:LYS:HD2	1.55	0.71
33:BN:23:VAL:HG22	33:BN:24:SER:H	1.56	0.71
33:BN:88:LYS:HD2	33:BN:89:PHE:N	2.05	0.71
41:BV:74:LEU:HD21	41:BV:137:ILE:HD11	1.72	0.71
42:B0:27:ARG:HH12	42:B0:28:VAL:HG12	1.55	0.71
44:BX:40:SER:OG	44:BX:43:LYS:HD2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:38:CYS:HB3	47:B9:41:CYS:SG	2.30	0.71
1:AA:143:A:OP1	1:AA:201:C:C4	2.40	0.71
1:AA:666:G:C2	15:AO:109:ASP:OD2	2.41	0.71
1:AA:1132:C:H2'	1:AA:1133:G:C8	2.24	0.71
1:AA:1162:C:C2	9:AI:108:PHE:HE2	2.09	0.71
1:AA:1177:G:H4'	9:AI:105:LYS:HE3	1.72	0.71
1:AA:1222:G:OP1	17:AS:120:SER:OG	2.06	0.71
5:AD:129:ILE:CG2	5:AD:144:PRO:HG3	2.21	0.71
6:AE:210:LEU:HD12	6:AE:211:LYS:N	2.05	0.71
7:AG:116:THR:HG21	7:AG:193:LEU:HB2	1.70	0.71
10:AJ:75:GLY:O	10:AJ:78:THR:HG22	1.90	0.71
15:AO:82:GLU:CA	15:AO:85:GLU:HB2	2.21	0.71
18:B3:68:U:O5'	44:BX:55:LEU:CD2	2.06	0.71
18:B3:79:G:C5'	40:BU:28:ARG:CB	2.49	0.71
18:B3:81:G:C2'	40:BU:75:ARG:CG	2.66	0.71
18:B3:618:G:C8	42:B0:46:PHE:C	2.64	0.71
18:B3:664:U:P	23:BD:115:ASN:CA	2.63	0.71
18:B3:919:U:H3	41:BV:41:ARG:HB2	1.55	0.71
18:B3:1308:A:H62	23:BD:201:ARG:CZ	2.03	0.71
18:B3:1467:C:P	31:BL:33:ASN:OD1	2.48	0.71
18:B3:2779:G:C2'	27:BH:163:GLN:HB3	2.20	0.71
18:B3:2866:U:H4'	18:B3:2867:G:H5'	1.71	0.71
21:BB:124:ALA:C	21:BB:125:LEU:HD12	2.10	0.71
22:BC:162:HIS:HA	22:BC:177:LEU:HG	1.72	0.71
22:BC:214:ILE:CG2	22:BC:339:LYS:H	2.04	0.71
23:BD:149:LEU:HB3	23:BD:247:VAL:O	1.91	0.71
23:BD:191:GLY:HA2	23:BD:194:ARG:CG	2.20	0.71
27:BH:161:LEU:HA	27:BH:164:ILE:CG1	2.19	0.71
28:BI:51:HIS:HE1	28:BI:149:VAL:HG22	1.54	0.71
30:BK:53:PHE:CZ	30:BK:86:LYS:HD2	2.25	0.71
32:BM:12:GLY:C	32:BM:123:LEU:HD12	2.10	0.71
34:BO:100:THR:HB	34:BO:119:GLY:CA	2.21	0.71
36:BQ:36:VAL:O	36:BQ:64:VAL:HG13	1.90	0.71
46:BZ:62:LYS:HD3	46:BZ:64:THR:N	2.06	0.71
47:B9:20:SER:O	47:B9:22:ARG:HD3	1.90	0.71
1:AA:106:C:O2'	1:AA:379:C:P	2.44	0.71
1:AA:197:A:H4'	1:AA:198:G:O5'	1.91	0.71
1:AA:358:U:H5'	2:AT:390:ASP:OD1	1.89	0.71
1:AA:1086:U:C4'	1:AA:1389:C:C4'	2.62	0.71
1:AA:1130:A:H4'	9:AI:65:ARG:NH2	2.06	0.71
1:AA:1221:G:O2'	17:AS:102:PHE:HA	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1302:U:C2'	13:AM:54:LEU:HD21	2.19	0.71
2:AT:836:GLN:H	2:AT:836:GLN:NE2	1.88	0.71
6:AE:98:LYS:NZ	6:AE:114:ILE:HD12	2.06	0.71
16:AQ:87:ARG:HD3	16:AQ:87:ARG:O	1.91	0.71
18:B3:67:A:OP2	18:B3:108:U:H5'	1.91	0.71
18:B3:71:G:H22	44:BX:56:THR:HG21	1.54	0.71
18:B3:448:G:H3'	18:B3:1306:U:O4'	1.90	0.71
18:B3:471:G:C5'	45:BY:15:HIS:NE2	2.53	0.71
18:B3:745:G:O6	34:BO:91:ALA:HB1	1.84	0.71
18:B3:1235:G:C8	32:BM:63:PHE:HE2	2.05	0.71
18:B3:1309:U:C6	23:BD:203:GLY:HA2	2.25	0.71
18:B3:1347:U:O2'	23:BD:241:ALA:CB	2.38	0.71
18:B3:1501:A:C5'	35:BP:37:ARG:CD	2.64	0.71
18:B3:2087:C:O2'	33:BN:78:THR:HB	1.91	0.71
18:B3:2310:G:H2'	28:BI:119:TRP:HZ2	1.54	0.71
18:B3:2397:G:C8	41:BV:46:LYS:NZ	2.48	0.71
18:B3:2435:U:H4'	46:BZ:27:TYR:CE2	2.24	0.71
18:B3:2819:C:O5'	22:BC:99:ARG:C	2.29	0.71
18:B3:2830:U:O4'	22:BC:126:LYS:NZ	2.24	0.71
19:B4:37:C:C6	24:BE:156:GLY:N	2.58	0.71
21:BB:112:VAL:HG22	21:BB:165:ILE:O	1.91	0.71
21:BB:233:LYS:HD2	21:BB:234:ALA:N	2.06	0.71
22:BC:165:ILE:HG23	22:BC:168:THR:CG2	2.20	0.71
23:BD:30:ARG:HG3	23:BD:33:ILE:HD13	1.70	0.71
23:BD:134:VAL:HG12	23:BD:139:HIS:CE1	2.25	0.71
24:BE:184:ASP:HA	24:BE:187:THR:CG2	2.18	0.71
26:BG:211:ALA:O	26:BG:214:VAL:HG22	1.90	0.71
27:BH:20:ILE:HG13	27:BH:24:ILE:HD13	1.71	0.71
28:BI:98:ARG:HB2	28:BI:120:GLY:O	1.90	0.71
29:BJ:8:MET:HG3	29:BJ:9:ARG:N	2.06	0.71
33:BN:14:ALA:HB1	33:BN:100:ASN:HD21	1.54	0.71
33:BN:69:THR:HG23	33:BN:73:LYS:HG2	1.73	0.71
33:BN:84:ALA:HB1	33:BN:85:LYS:NZ	2.05	0.71
34:BO:30:VAL:O	34:BO:49:LEU:HD13	1.90	0.71
41:BV:34:ALA:HB3	41:BV:43:ASN:CB	2.21	0.71
44:BX:27:GLU:OE2	44:BX:31:LEU:HB2	1.91	0.71
45:BY:30:LYS:HD2	45:BY:31:LYS:C	2.11	0.71
47:B9:47:LYS:NZ	47:B9:47:LYS:HA	2.05	0.71
1:AA:67:C:H2'	1:AA:171:A:N3	2.06	0.71
1:AA:120:A:N3	1:AA:122:G:C6	2.59	0.71
1:AA:124:G:O5'	1:AA:289:G:N2	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:434:U:H2'	1:AA:435:C:C6	2.25	0.71
1:AA:618:C:P	5:AD:140:ILE:O	2.49	0.71
1:AA:642:A:C5	8:AH:106:SER:HA	2.25	0.71
1:AA:1225:A:C8	17:AS:100:LYS:HE2	2.26	0.71
1:AA:1370:G:C5'	9:AI:123:PRO:HG3	2.20	0.71
5:AD:101:VAL:CB	5:AD:191:ALA:H	2.04	0.71
6:AE:202:LYS:HD2	6:AE:207:GLU:OE1	1.91	0.71
9:AI:51:LEU:HB3	9:AI:58:LYS:O	1.91	0.71
10:AJ:70:THR:HA	14:AN:42:PHE:N	2.05	0.71
18:B3:107:U:C6	44:BX:60:GLU:O	2.43	0.71
18:B3:182:G:O2'	31:BL:158:ARG:NE	2.23	0.71
18:B3:337:A:H2	18:B3:1314:U:HO2'	1.39	0.71
18:B3:772:G:C2	45:BY:46:TYR:HE2	2.08	0.71
18:B3:843:A:O3'	33:BN:130:ARG:HG3	1.90	0.71
18:B3:1007:A:H62	28:BI:19:LYS:HD2	1.54	0.71
18:B3:1262:C:H5'	25:BF:110:ILE:CG2	2.18	0.71
18:B3:1734:C:H5"	22:BC:245:LEU:HB3	1.73	0.71
18:B3:1745:G:O5'	37:BR:22:ILE:HD13	1.90	0.71
18:B3:1794:G:P	35:BP:97:ARG:CG	2.78	0.71
18:B3:2089:A:C5'	33:BN:68:ARG:HH21	2.04	0.71
18:B3:2275:G:H5'	31:BL:78:ALA:CA	2.19	0.71
19:B4:7:G:OP1	24:BE:30:TYR:CE1	2.44	0.71
19:B4:36:C:H2'	24:BE:156:GLY:H	1.53	0.71
21:BB:45:LYS:HB3	21:BB:71:ARG:NE	2.05	0.71
21:BB:116:GLU:CA	21:BB:123:GLY:HA2	2.21	0.71
22:BC:75:VAL:HG11	22:BC:326:CYS:CA	2.19	0.71
22:BC:83:VAL:HG21	22:BC:163:THR:HG22	1.72	0.71
22:BC:114:LYS:HB3	22:BC:115:ARG:HH21	1.55	0.71
22:BC:156:VAL:CG2	22:BC:158:ARG:HH22	2.04	0.71
23:BD:19:LEU:CB	23:BD:20:PRO:HA	2.20	0.71
23:BD:83:ARG:O	23:BD:97:ARG:HD2	1.89	0.71
23:BD:135:LEU:H	23:BD:135:LEU:HD23	1.56	0.71
26:BG:129:TYR:HE1	26:BG:202:VAL:HG11	1.55	0.71
26:BG:130:ALA:O	26:BG:131:VAL:HG13	1.91	0.71
27:BH:12:VAL:HG22	27:BH:13:PRO:CB	2.20	0.71
27:BH:94:TYR:CG	27:BH:177:ASP:HA	2.26	0.71
27:BH:127:PRO:HD2	27:BH:160:ASP:OD2	1.89	0.71
28:BI:17:TYR:HA	28:BI:18:PRO:O	1.89	0.71
31:BL:183:LYS:HG3	31:BL:195:THR:OG1	1.90	0.71
40:BU:40:ARG:NE	40:BU:41:ALA:H	1.89	0.71
43:BW:10:GLU:CG	43:BW:69:ARG:HG3	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:16:ARG:HD3	47:B9:16:ARG:N	2.05	0.71
47:B9:25:VAL:HG12	47:B9:26:LYS:HD2	1.71	0.71
47:B9:30:ILE:O	47:B9:30:ILE:HD13	1.90	0.71
1:AA:11:G:O2'	1:AA:525:C:H1'	1.90	0.71
1:AA:59:A:C4'	1:AA:388:G:N9	2.45	0.71
1:AA:231:G:N3	1:AA:263:A:C2	2.57	0.71
1:AA:392:G:H2'	1:AA:393:A:H8	1.56	0.71
1:AA:518:C:C2'	12:AL:66:SER:O	2.39	0.71
1:AA:731:G:OP1	1:AA:766:A:H1'	1.91	0.71
1:AA:988:G:O2'	1:AA:1014:A:H3'	1.91	0.71
1:AA:1068:G:P	1:AA:1388:C:H5'	2.31	0.71
1:AA:1475:G:H2'	1:AA:1476:G:H8	1.55	0.71
2:AT:464:LEU:HD13	2:AT:510:ARG:HG3	1.73	0.71
7:AG:175:THR:O	7:AG:179:ARG:HG3	1.90	0.71
9:AI:51:LEU:HD22	9:AI:58:LYS:NZ	2.06	0.71
9:AI:98:GLU:O	9:AI:99:GLN:HG3	1.90	0.71
10:AJ:34:LEU:CA	10:AJ:37:VAL:HG22	2.18	0.71
10:AJ:96:PRO:HA	10:AJ:99:ILE:CD1	2.21	0.71
13:AM:101:LEU:O	13:AM:105:VAL:HG23	1.90	0.71
18:B3:92:G:C2	44:BX:42:PRO:HG2	2.25	0.71
18:B3:721:A:OP2	34:BO:72:LYS:HE2	1.90	0.71
18:B3:1055:G:C8	28:BI:110:ARG:C	2.62	0.71
18:B3:1164:U:H5'	30:BK:47:ALA:HB1	1.71	0.71
18:B3:1167:G:H2'	30:BK:110:ILE:CG2	2.21	0.71
18:B3:1305:C:C2'	23:BD:194:ARG:NH2	2.53	0.71
18:B3:1447:U:N1	39:BT:70:THR:OG1	2.24	0.71
18:B3:1761:U:H1'	35:BP:80:ARG:HH22	0.54	0.71
18:B3:1787:C:N3	18:B3:2883:A:C1'	2.52	0.71
18:B3:1787:C:C2'	18:B3:2882:G:H3'	1.88	0.71
18:B3:2214:A:C4	20:BA:106:LYS:HE3	2.25	0.71
18:B3:2312:G:P	28:BI:22:TYR:HE1	2.06	0.71
18:B3:2337:G:OP1	29:BJ:103:PHE:N	2.23	0.71
18:B3:2763:G:C4'	37:BR:84:SER:H	1.98	0.71
21:BB:44:VAL:HG11	21:BB:58:ALA:HB1	1.70	0.71
21:BB:47:ILE:HG22	21:BB:58:ALA:CB	2.21	0.71
21:BB:118:LYS:HA	21:BB:118:LYS:CE	2.17	0.71
26:BG:151:LEU:HD21	26:BG:185:LEU:HD22	1.73	0.71
27:BH:151:VAL:HA	27:BH:154:VAL:CG2	2.21	0.71
27:BH:172:ILE:HD12	27:BH:175:PHE:O	1.90	0.71
28:BI:165:ILE:O	28:BI:166:ILE:HG13	1.91	0.71
29:BJ:15:LYS:O	29:BJ:129:VAL:HG12	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:9:ASN:HB3	33:BN:10:PRO:C	2.11	0.71
35:BP:22:TRP:N	35:BP:51:LYS:HD2	2.06	0.71
36:BQ:34:TYR:CE1	36:BQ:97:LYS:HB3	2.26	0.71
36:BQ:34:TYR:HD1	36:BQ:97:LYS:HD3	1.52	0.71
44:BX:28:LEU:HD13	44:BX:47:VAL:HG22	1.73	0.71
1:AA:1178:G:C6	9:AI:111:TYR:HE1	2.09	0.71
1:AA:1349:A:OP1	9:AI:135:SER:CB	2.39	0.71
1:AA:1406:U:C1'	1:AA:1518:A:H4'	2.19	0.71
2:AT:140:GLU:N	2:AT:481:MET:HG3	2.06	0.71
3:AB:138:VAL:HG13	3:AB:140:ILE:HG13	1.73	0.71
5:AD:31:ALA:HB1	5:AD:43:TYR:HE1	1.54	0.71
9:AI:88:LEU:HD23	9:AI:96:VAL:HG22	1.73	0.71
13:AM:21:ASN:ND2	13:AM:35:ILE:HG12	2.06	0.71
16:AQ:108:VAL:CG1	16:AQ:138:VAL:HG13	2.21	0.71
17:AS:56:PHE:CB	17:AS:58:LYS:HE2	2.20	0.71
18:B3:93:C:C4'	44:BX:42:PRO:CB	2.63	0.71
18:B3:544:G:H2'	18:B3:545:G:H5"	1.72	0.71
18:B3:676:C:H2'	23:BD:231:SER:O	1.85	0.71
18:B3:903:U:C4	41:BV:15:SER:HB2	2.22	0.71
18:B3:1074:G:H4'	42:B0:45:ARG:NH1	2.05	0.71
18:B3:1250:C:OP1	19:B4:90:G:OP2	2.09	0.71
18:B3:1381:A:C5	43:BW:25:LYS:CA	2.69	0.71
18:B3:1993:C:C5'	37:BR:70:ARG:NH2	2.53	0.71
18:B3:2089:A:H5'	33:BN:68:ARG:HH21	1.55	0.71
18:B3:2133:U:H4'	18:B3:2134:G:H5'	0.71	0.71
18:B3:2350:G:C2	29:BJ:116:ASP:CB	2.59	0.71
18:B3:2382:A:O4'	46:BZ:10:TYR:CD2	2.44	0.71
22:BC:10:HIS:HB3	22:BC:232:TRP:HD1	1.54	0.71
22:BC:11:GLY:HA3	22:BC:232:TRP:HB2	1.73	0.71
22:BC:90:GLY:CA	22:BC:101:LEU:HD12	2.17	0.71
22:BC:184:GLY:CA	22:BC:190:LYS:HD2	2.21	0.71
22:BC:306:PRO:HB3	22:BC:361:ALA:O	1.91	0.71
23:BD:7:VAL:HG12	23:BD:18:ALA:H	1.54	0.71
23:BD:197:ARG:HG2	23:BD:198:TRP:N	2.06	0.71
27:BH:25:VAL:CG1	27:BH:36:LYS:H	2.03	0.71
33:BN:17:ARG:HD3	33:BN:145:ILE:CD1	2.21	0.71
37:BR:40:LYS:HG2	37:BR:57:MET:HB3	1.71	0.71
41:BV:59:TYR:HB3	41:BV:62:LYS:HB2	1.71	0.71
41:BV:126:ALA:CA	41:BV:146:LEU:HG	2.21	0.71
42:B0:103:LYS:HD3	42:B0:103:LYS:H	1.56	0.71
43:BW:51:ALA:HB1	43:BW:52:PRO:HA	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:111:G:H1'	1:AA:389:A:C4'	2.20	0.70
1:AA:129:U:O3'	16:AQ:127:CYS:N	2.24	0.70
1:AA:617:G:C6	5:AD:143:ILE:HD13	2.26	0.70
1:AA:1300:G:H5'	13:AM:30:TYR:CE2	2.23	0.70
7:AG:84:ALA:CB	7:AG:89:ILE:HG13	2.21	0.70
13:AM:38:VAL:HB	13:AM:84:TRP:CZ3	2.26	0.70
13:AM:91:ASP:CA	13:AM:109:LEU:CG	2.63	0.70
18:B3:35:U:C5'	23:BD:104:THR:OG1	2.38	0.70
18:B3:139:C:H4'	18:B3:140:G:H5'	1.71	0.70
18:B3:265:U:H5"	31:BL:55:LYS:HZ2	0.68	0.70
18:B3:449:A:N7	18:B3:1350:U:O4'	2.21	0.70
18:B3:516:A:N3	18:B3:1339:G:O2'	2.23	0.70
18:B3:603:A:H4'	18:B3:604:G:O5'	1.91	0.70
18:B3:677:C:C1'	23:BD:231:SER:H	2.04	0.70
18:B3:721:A:H2	34:BO:141:ARG:HG3	1.54	0.70
18:B3:1805:G:H5"	18:B3:2875:A:C4'	1.88	0.70
18:B3:2334:C:C1'	29:BJ:113:ILE:N	2.54	0.70
18:B3:2336:G:C3'	29:BJ:101:PHE:CG	2.72	0.70
19:B4:5:G:C3'	24:BE:27:LYS:NZ	2.50	0.70
19:B4:47:A:C5'	24:BE:153:THR:CA	2.68	0.70
20:BA:53:LEU:HD22	20:BA:189:PHE:CE2	2.26	0.70
20:BA:190:PHE:CZ	20:BA:200:ASN:HB2	2.26	0.70
21:BB:2:ARG:NH2	21:BB:207:ASP:HA	2.05	0.70
21:BB:56:PRO:HD3	47:B9:51:ALA:CB	2.21	0.70
22:BC:17:PRO:HG2	22:BC:19:LYS:HG2	1.72	0.70
22:BC:251:ILE:HG22	22:BC:259:VAL:HG21	1.71	0.70
24:BE:87:GLY:HA3	24:BE:222:LEU:HD23	1.72	0.70
24:BE:219:PHE:N	24:BE:221:GLU:HG3	2.06	0.70
25:BF:168:ILE:HG13	25:BF:176:GLY:N	2.06	0.70
26:BG:203:ARG:HD2	26:BG:207:GLU:HA	1.72	0.70
31:BL:161:ARG:HD2	31:BL:164:THR:HA	1.71	0.70
37:BR:37:ILE:HD13	37:BR:38:ALA:N	2.05	0.70
40:BU:35:LEU:HG	40:BU:39:LEU:CD2	2.21	0.70
41:BV:82:PRO:CD	41:BV:120:VAL:HA	2.20	0.70
41:BV:135:GLU:HB3	41:BV:136:LYS:NZ	2.04	0.70
47:B9:44:LYS:HD2	47:B9:44:LYS:O	1.90	0.70
1:AA:105:G:N2	1:AA:379:C:H1'	2.05	0.70
1:AA:107:G:C2'	1:AA:108:G:H5'	2.20	0.70
1:AA:161:A:H2'	1:AA:162:A:C8	2.26	0.70
1:AA:190(E):U:OP2	16:AQ:136:PHE:O	2.09	0.70
1:AA:615:C:OP2	5:AD:107:ARG:NH1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1071:C:OP2	6:AE:90:ARG:CD	2.39	0.70
1:AA:1219:U:C2'	17:AS:78:THR:HB	2.10	0.70
1:AA:1220:G:C2	17:AS:77:ARG:HB2	2.26	0.70
1:AA:1322:C:OP2	17:AS:122:THR:HG22	1.89	0.70
1:AA:1342:C:O2	9:AI:138:GLN:CB	2.39	0.70
10:AJ:42:VAL:HG22	10:AJ:91:ILE:HG21	1.72	0.70
10:AJ:70:THR:HB	14:AN:42:PHE:H	1.49	0.70
13:AM:86:LEU:HD13	13:AM:87:ASN:H	1.51	0.70
16:AQ:90:LEU:HD13	16:AQ:101:LYS:CB	2.21	0.70
18:B3:907:A:C4'	18:B3:1328:A:H4'	2.05	0.70
18:B3:1054:G:OP2	28:BI:110:ARG:NH2	2.21	0.70
18:B3:1358:A:OP2	23:BD:90:GLY:HA3	1.91	0.70
18:B3:1398:G:O4'	35:BP:25:PRO:HG2	1.91	0.70
18:B3:1508:C:C5'	39:BT:77:ASP:HB2	2.19	0.70
18:B3:1785:G:O2'	18:B3:2733:U:P	2.50	0.70
18:B3:1851:G:H4'	21:BB:243:GLY:O	1.90	0.70
18:B3:2088:C:O3'	33:BN:67:GLY:N	2.24	0.70
18:B3:2244:A:N6	18:B3:2257:G:C2	2.59	0.70
18:B3:2295:G:C3'	36:BQ:5:HIS:O	2.39	0.70
18:B3:2653:A:H4'	22:BC:256:PRO:HB2	1.72	0.70
20:BA:190:PHE:HE2	20:BA:200:ASN:HB2	1.54	0.70
21:BB:149:LEU:CD1	21:BB:153:ALA:HB3	2.20	0.70
22:BC:102:THR:HG22	22:BC:145:ARG:HE	1.54	0.70
22:BC:236:LYS:HD3	22:BC:236:LYS:O	1.91	0.70
23:BD:5:VAL:HG21	23:BD:150:VAL:HG13	1.72	0.70
23:BD:52:SER:HB2	23:BD:55:ALA:HB2	1.72	0.70
26:BG:159:ILE:CG2	26:BG:161:LEU:HG	2.21	0.70
27:BH:7:GLU:HG2	27:BH:56:ALA:HB2	1.71	0.70
27:BH:12:VAL:HG22	27:BH:13:PRO:CA	2.21	0.70
27:BH:59:ASN:ND2	27:BH:60:GLY:H	1.90	0.70
30:BK:73:VAL:HG11	30:BK:75:PRO:CD	2.21	0.70
33:BN:69:THR:CG2	33:BN:73:LYS:HG2	2.21	0.70
34:BO:89:ASP:OD2	34:BO:109:GLY:HA3	1.90	0.70
37:BR:12:ARG:N	37:BR:86:ARG:HG3	2.05	0.70
42:B0:19:ARG:HA	42:B0:19:ARG:NH1	2.05	0.70
47:B9:28:LEU:CD2	47:B9:32:GLN:HB2	2.21	0.70
1:AA:45:U:H5"	1:AA:307:C:O2'	1.91	0.70
1:AA:542:G:H4'	5:AD:47:PHE:HE2	1.55	0.70
1:AA:979:C:O4'	17:AS:80:MET:HG2	1.92	0.70
1:AA:1075:C:C3'	3:AB:103:PRO:CD	2.63	0.70
1:AA:1303:C:H41	13:AM:40:ARG:NE	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1318:A:N3	17:AS:56:PHE:CE1	2.55	0.70
2:AT:194:ASP:HB2	2:AT:197:LEU:HD13	1.73	0.70
3:AB:75:ILE:HD13	3:AB:97:ILE:HB	1.71	0.70
7:AG:107:LEU:HG	7:AG:108:LYS:HD2	1.72	0.70
15:AO:77:ASN:HB2	15:AO:85:GLU:HG3	1.72	0.70
18:B3:638:C:C5'	42:B0:27:ARG:CB	2.66	0.70
18:B3:672:G:H5"	23:BD:214:ILE:HD12	1.67	0.70
18:B3:905:C:H6	41:BV:11:ARG:NH1	1.88	0.70
18:B3:918:G:C2	41:BV:45:ASP:OD1	2.44	0.70
18:B3:921:G:O3'	41:BV:41:ARG:NE	2.24	0.70
18:B3:1651:C:C6	47:B9:50:ALA:HB2	2.26	0.70
18:B3:2124:G:O2'	21:BB:229:VAL:HG12	1.91	0.70
18:B3:2336:G:N2	29:BJ:127:TYR:CG	2.59	0.70
18:B3:2337:G:O2'	29:BJ:127:TYR:N	2.10	0.70
18:B3:2460:A:C2'	46:BZ:60:LYS:HG3	2.20	0.70
18:B3:2596:A:C4'	37:BR:73:VAL:HG12	2.21	0.70
18:B3:2818:A:H2'	22:BC:99:ARG:C	1.84	0.70
20:BA:54:LYS:HG3	20:BA:156:LYS:CA	2.20	0.70
21:BB:82:HIS:CA	47:B9:62:THR:O	2.39	0.70
21:BB:204:ASN:HA	21:BB:207:ASP:OD1	1.91	0.70
22:BC:71:VAL:HG13	37:BR:87:ARG:HH11	1.54	0.70
22:BC:231:ARG:HD3	22:BC:232:TRP:H	1.56	0.70
22:BC:286:LYS:HD3	22:BC:286:LYS:N	2.06	0.70
23:BD:40:SER:OG	23:BD:110:VAL:HB	1.91	0.70
24:BE:208:MET:HG3	24:BE:211:LEU:CD2	2.22	0.70
25:BF:177:ILE:CG2	25:BF:182:ASP:HB3	2.20	0.70
27:BH:39:LYS:HD3	27:BH:39:LYS:O	1.91	0.70
31:BL:171:ARG:CZ	31:BL:171:ARG:HB2	2.21	0.70
33:BN:17:ARG:HB2	33:BN:146:GLU:HA	1.73	0.70
34:BO:126:GLN:OE1	34:BO:129:VAL:HG13	1.90	0.70
35:BP:4:ARG:HD3	35:BP:5:THR:N	2.06	0.70
35:BP:41:ARG:HD3	35:BP:44:VAL:HG11	1.71	0.70
36:BQ:39:ILE:CD1	36:BQ:99:SER:HB3	2.21	0.70
37:BR:94:TYR:HD1	38:BS:21:PHE:CG	1.98	0.70
40:BU:37:LYS:HA	40:BU:40:ARG:HD3	1.70	0.70
41:BV:120:VAL:HG21	41:BV:122:VAL:CG1	2.21	0.70
1:AA:1075:C:H5'	3:AB:102:THR:HB	1.70	0.70
1:AA:1348:U:H5"	9:AI:134:ARG:CG	2.19	0.70
3:AB:193:PRO:HB3	3:AB:196:ILE:HD12	1.74	0.70
4:AC:165:ASP:CB	4:AC:167:ILE:HG12	2.21	0.70
6:AE:79:VAL:HG21	6:AE:124:ILE:CD1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:27:ARG:HA	8:AH:27:ARG:NE	2.06	0.70
13:AM:27:LYS:HE3	13:AM:57:ARG:HH22	1.56	0.70
18:B3:48:A:C8	18:B3:49:A:O5'	2.44	0.70
18:B3:78:G:O2'	40:BU:25:SER:CA	2.38	0.70
18:B3:618:G:N3	42:B0:41:VAL:CG2	2.54	0.70
18:B3:745:G:H21	41:BV:76:LYS:NZ	1.88	0.70
18:B3:1673:U:H5"	39:BT:109:VAL:CG2	2.21	0.70
18:B3:1788:U:H2'	18:B3:2881:C:O2	1.91	0.70
18:B3:1898:G:N3	21:BB:223:THR:HG21	2.06	0.70
18:B3:2081:A:C1'	32:BM:69:PRO:HG2	2.19	0.70
18:B3:2335:C:N3	29:BJ:116:ASP:CB	2.15	0.70
18:B3:2337:G:C1'	29:BJ:127:TYR:CA	2.34	0.70
18:B3:2909:G:O2'	18:B3:2910:A:H5'	1.91	0.70
19:B4:14:G:H1'	24:BE:12:TYR:HB2	1.73	0.70
19:B4:51:A:H62	24:BE:59:ASP:H	1.32	0.70
22:BC:8:PRO:HB3	22:BC:9:ARG:NH1	2.07	0.70
22:BC:71:VAL:C	37:BR:87:ARG:NH1	2.32	0.70
23:BD:9:SER:N	23:BD:15:THR:HG21	2.06	0.70
24:BE:42:ALA:HA	24:BE:49:TYR:CE2	2.26	0.70
25:BF:152:PHE:HB2	25:BF:200:PHE:HD2	1.56	0.70
27:BH:57:VAL:HG11	32:BM:126:LEU:CD1	2.21	0.70
28:BI:103:LEU:HB2	28:BI:118:ALA:HB2	1.73	0.70
29:BJ:132:ARG:NH1	29:BJ:132:ARG:H	1.90	0.70
34:BO:123:THR:CG2	34:BO:126:GLN:H	2.04	0.70
35:BP:4:ARG:O	35:BP:7:LYS:HB3	1.91	0.70
35:BP:9:LEU:CD1	35:BP:37:ARG:HE	2.04	0.70
37:BR:65:GLY:O	37:BR:66:LYS:HG2	1.91	0.70
41:BV:125:LYS:HA	41:BV:145:GLU:HB2	1.72	0.70
42:B0:18:LYS:HD2	42:B0:30:GLU:HB2	1.71	0.70
1:AA:120:A:H1'	1:AA:123:C:C5	2.26	0.70
1:AA:779:C:H5"	11:AK:131:ARG:C	2.04	0.70
1:AA:1137:C:H4'	1:AA:1138:G:N2	2.06	0.70
1:AA:1302:U:H3'	13:AM:54:LEU:HD23	1.49	0.70
1:AA:1318:A:O2'	17:AS:83:MET:CA	2.39	0.70
6:AE:219:ASN:HB2	8:AH:76:PRO:HG3	1.72	0.70
9:AI:52:LEU:O	9:AI:52:LEU:HD23	1.92	0.70
13:AM:92:ILE:CA	13:AM:109:LEU:HD11	2.20	0.70
18:B3:25:A:N3	18:B3:1320:U:O3'	2.23	0.70
18:B3:78:G:C4'	40:BU:25:SER:HG	1.82	0.70
18:B3:111:C:C4'	18:B3:119:A:H61	1.96	0.70
18:B3:175:G:H1	31:BL:85:ASN:HD21	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:449:A:C2'	23:BD:46:ARG:NE	2.52	0.70
18:B3:1163:G:N7	30:BK:51:LYS:CG	2.48	0.70
18:B3:1167:G:C2'	30:BK:111:GLU:HA	2.21	0.70
18:B3:1785:G:C3'	18:B3:2733:U:OP1	2.38	0.70
18:B3:2334:C:C2	29:BJ:116:ASP:HA	2.26	0.70
18:B3:2345:A:N3	29:BJ:23:GLY:C	2.45	0.70
18:B3:2413:A:O4'	24:BE:175:HIS:C	2.29	0.70
18:B3:2545:U:C2'	22:BC:238:PRO:HG3	2.20	0.70
19:B4:7:G:H8	24:BE:22:ARG:HG2	1.54	0.70
20:BA:58:CYS:HA	20:BA:153:SER:HB3	1.72	0.70
20:BA:59:PRO:O	20:BA:60:ARG:HG3	1.91	0.70
21:BB:142:GLU:HG3	21:BB:144:LYS:CE	2.20	0.70
21:BB:148:ARG:O	21:BB:149:LEU:HD23	1.91	0.70
23:BD:124:ALA:HB2	23:BD:234:LEU:CD1	2.21	0.70
23:BD:160:LYS:HE2	23:BD:162:LYS:HB3	1.73	0.70
24:BE:41:LYS:HG3	24:BE:145:PHE:HD1	1.56	0.70
25:BF:168:ILE:HD12	25:BF:168:ILE:H	1.56	0.70
26:BG:116:ALA:CB	26:BG:217:ILE:HB	2.21	0.70
27:BH:17:THR:H	27:BH:28:VAL:HB	1.55	0.70
27:BH:64:HIS:O	27:BH:67:ALA:HB3	1.91	0.70
29:BJ:141:LYS:HD3	29:BJ:144:LYS:CE	2.22	0.70
30:BK:46:ILE:HG13	30:BK:47:ALA:N	2.07	0.70
33:BN:13:SER:HB2	33:BN:149:VAL:CG2	2.21	0.70
33:BN:66:ILE:HB	33:BN:79:LYS:NZ	2.05	0.70
34:BO:106:PHE:HD2	34:BO:111:ARG:HB3	1.50	0.70
37:BR:114:ILE:HG12	37:BR:132:ASN:O	1.90	0.70
40:BU:45:ILE:CD1	40:BU:47:ALA:H	2.03	0.70
47:B9:41:CYS:CB	47:B9:43:LYS:HD3	2.18	0.70
1:AA:33:A:H4'	1:AA:364:A:O2'	1.92	0.70
1:AA:553:A:P	12:AL:40:SER:HB2	2.31	0.70
1:AA:619:U:O2'	5:AD:129:ILE:CB	2.22	0.70
1:AA:1290:G:C5'	7:AG:108:LYS:CE	2.68	0.70
1:AA:1298:C:C4'	13:AM:57:ARG:NH2	2.53	0.70
4:AC:100:GLN:HE22	4:AC:135:VAL:CG2	2.04	0.70
4:AC:171:THR:CG2	4:AC:184:LYS:HD3	2.16	0.70
7:AG:117:LEU:HG	7:AG:128:PRO:HB2	1.71	0.70
10:AJ:58:LEU:HG	10:AJ:90:TYR:CE2	2.26	0.70
11:AK:26:PHE:HB2	11:AK:41:VAL:HG12	1.74	0.70
11:AK:87:GLY:CA	11:AK:96:GLY:HA3	2.13	0.70
13:AM:129:TRP:HZ3	17:AS:121:ILE:HB	1.55	0.70
13:AM:131:LEU:HD11	17:AS:121:ILE:HG21	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:270:U:OP1	18:B3:273:G:O2'	2.10	0.70
18:B3:952:G:H4'	18:B3:953:G:OP1	1.91	0.70
18:B3:968:G:H1'	28:BI:39:LYS:HE2	1.74	0.70
18:B3:1086:A:H61	25:BF:92:ASN:HD21	1.32	0.70
18:B3:1164:U:C5	30:BK:49:ALA:CA	2.74	0.70
18:B3:1181:A:N3	30:BK:107:ASP:N	2.35	0.70
18:B3:1705:C:C4'	35:BP:62:THR:CG2	2.70	0.70
18:B3:1806:G:C4'	18:B3:2874:G:O2'	2.38	0.70
18:B3:2205:G:C6	18:B3:2206:C:C4	2.79	0.70
18:B3:2328:U:OP1	24:BE:153:THR:HB	1.87	0.70
18:B3:2345:A:O2'	29:BJ:62:GLU:OE2	2.09	0.70
18:B3:2823:G:P	22:BC:135:LYS:HB2	2.31	0.70
22:BC:217:ILE:HG22	22:BC:275:THR:CA	2.22	0.70
24:BE:150:LEU:HD13	24:BE:151:GLN:N	2.07	0.70
25:BF:97:LYS:HD3	25:BF:97:LYS:O	1.90	0.70
27:BH:42:ASP:O	27:BH:57:VAL:HG11	1.82	0.70
28:BI:32:ARG:HG2	28:BI:33:ILE:HD12	1.74	0.70
28:BI:154:ARG:NH2	28:BI:155:ALA:HB2	2.07	0.70
29:BJ:16:LEU:HD21	29:BJ:78:ILE:CD1	2.21	0.70
31:BL:141:ILE:HD11	31:BL:151:CYS:SG	2.32	0.70
31:BL:164:THR:OG1	31:BL:169:LYS:HB3	1.91	0.70
33:BN:116:ILE:HD13	33:BN:116:ILE:H	1.57	0.70
40:BU:30:LEU:O	40:BU:30:LEU:HD23	1.91	0.70
40:BU:89:LYS:HD2	40:BU:92:GLY:H	1.57	0.70
42:B0:35:GLN:HG2	42:B0:43:ARG:HB2	1.72	0.70
1:AA:69:G:O2'	1:AA:171:A:N6	2.24	0.70
1:AA:401:C:O2'	1:AA:622:A:C8	2.44	0.70
1:AA:1016:A:H2'	1:AA:1017:G:O4'	1.92	0.70
1:AA:1221:G:P	17:AS:81:ARG:HA	2.31	0.70
1:AA:1240:U:C5'	7:AG:188:THR:CA	2.19	0.70
2:AT:202:VAL:HG12	2:AT:209:VAL:CG2	2.22	0.70
3:AB:139:ASN:ND2	8:AH:68:LEU:CG	2.42	0.70
8:AH:81:LYS:HE3	8:AH:123:LYS:HD2	1.73	0.70
9:AI:86:LYS:O	9:AI:89:VAL:HG12	1.91	0.70
13:AM:50:ALA:HA	13:AM:68:ARG:CD	2.22	0.70
18:B3:164:G:C5'	41:BV:31:ARG:HG3	2.17	0.70
18:B3:269:G:C5'	18:B3:274:G:H1'	2.20	0.70
18:B3:890:C:C2	45:BY:48:TRP:O	2.44	0.70
18:B3:1056:U:C4'	28:BI:8:CYS:HB2	2.04	0.70
18:B3:1056:U:O2	18:B3:2494:G:C1'	2.40	0.70
18:B3:1139:U:H4'	27:BH:62:ARG:NE	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1164:U:OP1	30:BK:50:THR:N	2.24	0.70
18:B3:1369:A:OP2	33:BN:64:SER:CB	2.40	0.70
18:B3:1565:C:H5"	18:B3:2738:G:C8	2.27	0.70
18:B3:1993:C:H1'	37:BR:72:LYS:HG3	1.66	0.70
18:B3:2329:C:H2'	18:B3:2330:U:O4	1.91	0.70
18:B3:2336:G:H4'	29:BJ:101:PHE:CD2	2.26	0.70
18:B3:2565:C:O2	27:BH:170:LYS:O	2.10	0.70
18:B3:2737:C:OP2	35:BP:62:THR:HG22	1.91	0.70
18:B3:2780:C:O2'	27:BH:159:ALA:HB3	1.91	0.70
18:B3:2826:G:H1'	22:BC:124:SER:HB2	1.74	0.70
19:B4:76:G:C3'	19:B4:77:A:H5"	2.16	0.70
19:B4:86:G:OP1	25:BF:218:LYS:CD	2.39	0.70
19:B4:119:C:C1'	24:BE:71:GLY:O	2.32	0.70
21:BB:29:ARG:HB3	21:BB:29:ARG:HH11	1.57	0.70
21:BB:45:LYS:HB3	21:BB:71:ARG:HD3	1.74	0.70
22:BC:118:TYR:HA	22:BC:132:TYR:CD1	2.27	0.70
22:BC:357:TRP:C	38:BS:15:PRO:CB	2.57	0.70
23:BD:177:LEU:CA	23:BD:205:LEU:HD11	2.22	0.70
25:BF:99:ARG:H	25:BF:102:LEU:CD1	2.04	0.70
25:BF:177:ILE:HD12	25:BF:178:LEU:CD1	2.15	0.70
26:BG:198:ALA:C	26:BG:199:LEU:HD22	2.12	0.70
28:BI:43:VAL:HG11	28:BI:86:HIS:CE1	2.27	0.70
28:BI:82:ARG:HB2	28:BI:82:ARG:NH1	2.06	0.70
40:BU:23:PRO:HD2	40:BU:26:GLN:HE21	1.56	0.70
41:BV:143:VAL:HG22	41:BV:144:VAL:HG23	1.74	0.70
42:B0:35:GLN:CG	42:B0:43:ARG:HB2	2.21	0.70
1:AA:14:U:OP2	1:AA:914:A:P	2.50	0.70
2:AT:202:VAL:HG12	2:AT:209:VAL:HG23	1.72	0.70
4:AC:24:PHE:HA	4:AC:28:LEU:HD23	1.73	0.70
4:AC:31:GLU:HG2	4:AC:51:ALA:HB1	1.74	0.70
10:AJ:45:ALA:HB1	10:AJ:49:ASN:OD1	1.92	0.70
10:AJ:82:TYR:OH	14:AN:43:ARG:CZ	2.40	0.70
11:AK:12:VAL:HA	11:AK:75:ILE:HA	1.72	0.70
18:B3:618:G:O4'	42:B0:46:PHE:CA	2.37	0.70
18:B3:919:U:O2	41:BV:41:ARG:C	2.29	0.70
18:B3:2087:C:C1'	33:BN:78:THR:HG22	2.19	0.70
18:B3:2214:A:C1'	20:BA:106:LYS:HD2	2.21	0.70
18:B3:2328:U:P	24:BE:153:THR:OG1	2.48	0.70
18:B3:2350:G:O6	29:BJ:115:TYR:CG	2.45	0.70
18:B3:2413:A:H1'	24:BE:175:HIS:H	1.09	0.70
18:B3:2558:G:O2'	18:B3:2799:A:C3'	2.40	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2615:U:H5'	22:BC:240:LYS:HG3	1.73	0.70
22:BC:261:TRP:HB2	22:BC:263:VAL:CG2	2.19	0.70
23:BD:30:ARG:HB3	23:BD:33:ILE:HD13	1.73	0.70
24:BE:41:LYS:HE2	24:BE:41:LYS:HA	1.73	0.70
24:BE:191:ASP:CG	24:BE:192:PRO:HD3	2.12	0.70
27:BH:13:PRO:HD2	27:BH:16:VAL:CG2	2.22	0.70
27:BH:42:ASP:H	32:BM:125:VAL:N	1.89	0.70
28:BI:102:MET:HB3	28:BI:113:GLN:CG	2.21	0.70
28:BI:105:CYS:N	28:BI:112:GLN:H	1.90	0.70
29:BJ:59:ARG:NE	29:BJ:62:GLU:HG2	2.06	0.70
30:BK:84:ALA:HB1	30:BK:104:ILE:HD11	1.74	0.70
31:BL:13:LYS:CE	31:BL:18:LEU:HG	2.22	0.70
31:BL:188:LYS:HA	31:BL:188:LYS:CE	2.20	0.70
32:BM:3:GLU:O	32:BM:32:ILE:HD13	1.92	0.70
33:BN:59:PHE:HE1	33:BN:79:LYS:CE	2.04	0.70
33:BN:94:LEU:HD13	33:BN:95:GLN:H	1.54	0.70
39:BT:107:LEU:HB3	39:BT:124:ARG:HH21	1.57	0.70
1:AA:31:G:OP2	1:AA:306:G:N2	2.24	0.70
1:AA:298:A:H1'	6:AE:196:TYR:CZ	2.26	0.70
1:AA:1281:U:H4'	1:AA:1282:C:OP2	1.91	0.70
1:AA:1309:G:C4	13:AM:92:ILE:CB	1.98	0.70
1:AA:1321:C:C2	17:AS:81:ARG:HB2	2.22	0.70
1:AA:1329:A:C2	13:AM:93:THR:CA	2.70	0.70
4:AC:41:THR:HG23	4:AC:42:PRO:N	2.06	0.70
6:AE:151:HIS:CB	6:AE:193:GLU:HB2	2.17	0.70
9:AI:29:LYS:HD3	9:AI:32:GLY:CA	2.22	0.70
16:AQ:76:SER:HB3	16:AQ:84:VAL:HG12	1.74	0.70
18:B3:663:C:H3'	23:BD:115:ASN:CG	2.11	0.70
18:B3:697:G:C2'	41:BV:112:LEU:CD1	2.67	0.70
18:B3:1132:A:C2'	18:B3:2521:A:H4'	0.45	0.70
18:B3:1250:C:H5"	19:B4:89:C:O3'	1.92	0.70
18:B3:1401:G:C5'	43:BW:61:ARG:O	2.38	0.70
18:B3:1806:G:C4	18:B3:2884:G:H1'	2.26	0.70
18:B3:2347:C:H1'	29:BJ:67:HIS:O	1.91	0.70
18:B3:2520:G:H5'	28:BI:159:PHE:O	1.92	0.70
20:BA:55:LEU:HD21	20:BA:167:VAL:HG23	1.72	0.70
22:BC:14:GLY:H	22:BC:16:LEU:HD11	1.57	0.70
22:BC:231:ARG:HA	22:BC:269:ARG:NH1	2.05	0.70
23:BD:256:LYS:HD2	23:BD:256:LYS:N	2.06	0.70
24:BE:64:ILE:CG1	24:BE:109:THR:HG21	2.19	0.70
27:BH:63:LYS:CD	32:BM:129:LYS:N	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:32:ALA:H	29:BJ:34:LYS:CD	2.05	0.70
31:BL:40:ARG:HB2	31:BL:40:ARG:NH1	2.05	0.70
32:BM:26:LEU:HG	32:BM:101:LEU:CD1	2.17	0.70
33:BN:26:LYS:H	33:BN:28:THR:CG2	2.04	0.70
33:BN:98:ALA:HA	33:BN:108:ALA:HB1	1.73	0.70
35:BP:11:ALA:HA	35:BP:14:VAL:HB	1.74	0.70
35:BP:125:GLU:HG3	35:BP:130:ALA:HB3	1.73	0.70
37:BR:37:ILE:HG22	37:BR:59:MET:C	2.12	0.70
39:BT:113:VAL:HG23	39:BT:114:ARG:H	1.55	0.70
40:BU:70:ILE:HG12	40:BU:80:VAL:CG2	2.22	0.70
40:BU:80:VAL:HG22	40:BU:81:GLN:H	1.56	0.70
44:BX:48:ARG:O	44:BX:49:LYS:HG3	1.92	0.70
1:AA:64:G:C2	1:AA:73:C:N3	2.60	0.70
1:AA:67:C:O2	1:AA:171:A:N1	2.25	0.70
1:AA:320:C:H4'	1:AA:1436:U:N3	2.07	0.70
1:AA:344:A:H4'	1:AA:345:C:OP2	1.92	0.70
1:AA:988:G:N1	1:AA:1015:A:N3	2.40	0.70
1:AA:1343:G:O4'	9:AI:138:GLN:HB2	1.92	0.70
1:AA:1348:U:C4'	9:AI:134:ARG:CG	2.17	0.70
5:AD:21:SER:O	5:AD:23:ARG:HD3	1.91	0.70
6:AE:188:GLN:HG3	6:AE:189:LEU:HD12	1.71	0.70
18:B3:541:C:OP1	42:B0:14:THR:HG23	1.91	0.70
18:B3:855:U:H4'	18:B3:856:G:O5'	1.91	0.70
18:B3:1139:U:H4'	27:BH:62:ARG:HB3	1.74	0.70
18:B3:1808:C:OP1	18:B3:2885:A:H3'	1.91	0.70
18:B3:1815:A:H5"	18:B3:2751:C:C6	2.27	0.70
18:B3:1874:U:O5'	21:BB:127:ARG:CD	2.37	0.70
18:B3:2135:A:N1	18:B3:2240:U:O4	2.24	0.70
18:B3:2214:A:H1'	20:BA:103:LEU:HA	1.74	0.70
18:B3:2244:A:O3'	31:BL:27:TRP:CZ3	2.45	0.70
18:B3:2333:G:C1'	29:BJ:113:ILE:O	2.39	0.70
18:B3:2468:A:C6	46:BZ:54:LYS:HB2	2.25	0.70
18:B3:2552:C:H1'	18:B3:2553:A:C2'	2.21	0.70
18:B3:2736:U:H3'	35:BP:61:ARG:HB3	1.68	0.70
18:B3:2779:G:H1'	27:BH:163:GLN:HB2	1.74	0.70
18:B3:2826:G:HO2'	22:BC:123:LYS:C	1.94	0.70
21:BB:165:ILE:HG23	21:BB:166:GLY:N	2.06	0.70
21:BB:165:ILE:HG23	21:BB:166:GLY:H	1.56	0.70
22:BC:228:VAL:HA	22:BC:232:TRP:CH2	2.26	0.70
23:BD:63:SER:CB	23:BD:74:PRO:HA	2.21	0.70
25:BF:87:ARG:HA	25:BF:133:VAL:CG1	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:8:GLN:HG2	27:BH:72:LYS:CE	2.21	0.70
27:BH:29:GLY:O	27:BH:82:VAL:HG22	1.91	0.70
27:BH:47:LYS:CE	27:BH:47:LYS:HA	2.22	0.70
28:BI:49:CYS:HB2	28:BI:168:SER:CB	2.21	0.70
31:BL:102:GLU:OE1	31:BL:161:ARG:HB3	1.92	0.70
32:BM:13:HIS:CD2	32:BM:121:GLN:HG3	2.26	0.70
32:BM:26:LEU:HD13	32:BM:97:ALA:HB1	1.74	0.70
33:BN:59:PHE:CE1	33:BN:79:LYS:HE2	2.23	0.70
39:BT:61:VAL:HG11	39:BT:97:ALA:HB3	1.72	0.70
39:BT:120:LYS:HE3	39:BT:120:LYS:CA	2.17	0.70
41:BV:97:THR:HG21	41:BV:124:VAL:CB	2.21	0.70
42:B0:42:VAL:HG23	42:B0:49:ASN:HD22	1.56	0.70
43:BW:27:ARG:HH11	43:BW:66:VAL:CG2	2.05	0.70
46:BZ:21:GLN:O	46:BZ:74:VAL:HG12	1.92	0.70
46:BZ:25:THR:HG21	46:BZ:70:ARG:CG	2.19	0.70
1:AA:24:U:OP1	12:AL:39:LYS:HD3	1.92	0.69
1:AA:309:G:N2	1:AA:607:A:N6	2.39	0.69
1:AA:616:G:OP2	5:AD:149:ARG:HG3	1.92	0.69
1:AA:650:G:O2'	1:AA:651:C:H5'	1.92	0.69
1:AA:1221:G:C8	17:AS:78:THR:O	2.44	0.69
1:AA:1309:G:C5	13:AM:92:ILE:HG21	2.04	0.69
1:AA:1318:A:H2	17:AS:82:ASN:HB3	0.94	0.69
1:AA:1329:A:O2'	13:AM:98:TYR:O	2.10	0.69
1:AA:1329:A:H61	13:AM:94:ASP:C	1.84	0.69
1:AA:1369:C:OP2	9:AI:125:PRO:HA	1.92	0.69
4:AC:6:LYS:HE2	4:AC:7:LYS:H	1.57	0.69
4:AC:167:ILE:CD1	4:AC:188:MET:HG2	2.22	0.69
5:AD:132:ARG:O	5:AD:140:ILE:HD11	1.91	0.69
5:AD:164:PHE:O	5:AD:167:ALA:HB3	1.92	0.69
7:AG:213:LYS:HE2	7:AG:217:GLU:OE2	1.91	0.69
8:AH:13:ILE:HG22	8:AH:77:ARG:HH22	1.57	0.69
9:AI:19:ALA:HB2	9:AI:83:ALA:CB	2.21	0.69
13:AM:37:GLY:HA3	13:AM:101:LEU:CD2	2.22	0.69
18:B3:541:C:H5	42:B0:15:LYS:HG3	1.12	0.69
18:B3:620:A:O2'	42:B0:20:HIS:CE1	2.45	0.69
18:B3:721:A:C5'	34:BO:72:LYS:H	2.00	0.69
18:B3:783:C:O2'	21:BB:20:ARG:NH1	2.25	0.69
18:B3:882:A:C4'	45:BY:2:LYS:CB	2.65	0.69
18:B3:906:C:C2	18:B3:1329:A:N7	2.60	0.69
18:B3:1523:G:H2'	18:B3:1524:U:C6	2.26	0.69
18:B3:1597:A:H4'	35:BP:94:TRP:CZ2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1708:C:H5'	35:BP:87:ARG:CD	2.22	0.69
18:B3:1810:C:N3	18:B3:2753:G:C4	2.59	0.69
18:B3:2052:U:P	33:BN:23:VAL:HG22	2.27	0.69
18:B3:2213:G:O2'	20:BA:106:LYS:NZ	2.24	0.69
18:B3:2663:U:O2'	18:B3:2816:A:N7	2.24	0.69
20:BA:34:LEU:HD22	20:BA:205:VAL:O	1.91	0.69
20:BA:102:LYS:HA	20:BA:105:LYS:HE3	1.72	0.69
21:BB:177:PRO:HB3	47:B9:22:ARG:CZ	2.22	0.69
22:BC:10:HIS:HB3	22:BC:233:GLY:O	1.92	0.69
22:BC:55:ILE:O	22:BC:71:VAL:HG23	1.90	0.69
24:BE:21:ARG:HA	24:BE:21:ARG:NH1	2.07	0.69
24:BE:29:ASP:O	24:BE:33:ARG:HG2	1.92	0.69
24:BE:33:ARG:HA	24:BE:36:LEU:HD21	1.73	0.69
24:BE:84:PRO:HG3	24:BE:88:ILE:C	2.12	0.69
27:BH:102:ASN:O	27:BH:113:GLU:HB3	1.91	0.69
28:BI:61:SER:HA	28:BI:126:ALA:CB	2.22	0.69
28:BI:72:ALA:HA	28:BI:154:ARG:NH2	2.07	0.69
29:BJ:18:LEU:H	29:BJ:68:VAL:CG1	2.05	0.69
29:BJ:44:PRO:HG2	29:BJ:68:VAL:H	1.55	0.69
30:BK:80:LEU:O	30:BK:83:THR:HG22	1.92	0.69
31:BL:22:GLN:HA	31:BL:22:GLN:HE21	1.56	0.69
31:BL:161:ARG:HH11	31:BL:164:THR:CA	2.02	0.69
32:BM:12:GLY:HA3	32:BM:123:LEU:CD1	2.22	0.69
33:BN:65:SER:C	33:BN:66:ILE:HD13	2.12	0.69
36:BQ:74:VAL:H	36:BQ:89:LEU:CB	2.03	0.69
40:BU:100:HIS:CD2	40:BU:101:PRO:HA	2.26	0.69
40:BU:100:HIS:HE2	40:BU:104:LEU:HD13	1.57	0.69
42:B0:35:GLN:OE1	42:B0:43:ARG:HB2	1.93	0.69
42:B0:113:LYS:HD3	42:B0:113:LYS:O	1.92	0.69
43:BW:56:GLN:O	43:BW:60:LYS:HB2	1.91	0.69
44:BX:58:ILE:HG13	44:BX:59:ASN:N	2.06	0.69
1:AA:120:A:H1'	1:AA:123:C:H5	1.57	0.69
1:AA:239:U:C6	1:AA:240:C:C5	2.80	0.69
1:AA:363:A:H1'	12:AL:48:HIS:O	1.92	0.69
1:AA:404:U:O2'	5:AD:21:SER:O	2.10	0.69
1:AA:633:G:O3'	16:AQ:94:PRO:CA	2.23	0.69
1:AA:818:G:C3'	1:AA:819:A:H5"	2.22	0.69
1:AA:920:U:H5'	1:AA:1080:A:C8	2.25	0.69
1:AA:989:C:O2	1:AA:1016:A:O4'	2.09	0.69
3:AB:119:LEU:HD12	3:AB:141:PRO:C	2.13	0.69
3:AB:119:LEU:HD12	3:AB:141:PRO:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:143:ALA:HB2	4:AC:178:GLN:HG2	1.72	0.69
5:AD:72:GLU:CD	5:AD:105:LEU:HD22	2.12	0.69
6:AE:119:GLU:HG3	6:AE:122:GLY:H	1.58	0.69
8:AH:31:LYS:O	8:AH:34:ILE:HG22	1.92	0.69
9:AI:100:SER:HA	9:AI:116:LEU:CG	2.22	0.69
10:AJ:75:GLY:C	14:AN:40:GLN:HG2	2.11	0.69
15:AO:86:ASP:O	15:AO:90:LEU:HD13	1.92	0.69
18:B3:27:U:H2'	18:B3:1318:A:N3	1.88	0.69
18:B3:516:A:N3	18:B3:1340:G:H5'	2.06	0.69
18:B3:815:U:HO3'	18:B3:816:G:H5'	1.56	0.69
18:B3:1167:G:OP1	30:BK:45:ASP:O	2.09	0.69
18:B3:1447:U:O4	39:BT:73:LYS:HB3	1.92	0.69
18:B3:1597:A:H4'	35:BP:94:TRP:CH2	2.27	0.69
18:B3:1676:G:H3'	39:BT:115:PRO:CD	2.01	0.69
18:B3:1829:A:C2	47:B9:17:TYR:CD1	2.60	0.69
18:B3:1855:G:C6	21:BB:150:PRO:CG	2.71	0.69
18:B3:1880:C:O2'	21:BB:234:ALA:HA	1.92	0.69
18:B3:2245:C:O2	18:B3:2256:G:C2	2.45	0.69
20:BA:77:ALA:O	20:BA:82:VAL:HG22	1.91	0.69
20:BA:215:ARG:HD2	20:BA:215:ARG:H	1.55	0.69
21:BB:154:LYS:H	21:BB:154:LYS:CE	2.05	0.69
21:BB:188:TYR:CE1	21:BB:195:TRP:HB2	2.27	0.69
22:BC:16:LEU:HB3	22:BC:17:PRO:HA	1.74	0.69
22:BC:88:VAL:HG12	22:BC:104:VAL:CG1	2.20	0.69
23:BD:207:VAL:CG1	23:BD:247:VAL:HA	2.21	0.69
25:BF:178:LEU:HB2	25:BF:180:ILE:HD11	1.73	0.69
26:BG:109:THR:O	26:BG:110:LYS:HG3	1.92	0.69
26:BG:129:TYR:N	26:BG:204:ALA:HB3	2.07	0.69
27:BH:63:LYS:HG2	32:BM:128:LEU:C	1.98	0.69
27:BH:103:ILE:HG21	27:BH:134:ILE:CG2	2.21	0.69
28:BI:70:ILE:HD12	28:BI:74:LYS:HG2	1.74	0.69
30:BK:91:ASP:OD2	30:BK:101:SER:HB2	1.92	0.69
33:BN:127:ARG:CG	33:BN:138:TYR:HB3	2.22	0.69
35:BP:29:SER:O	35:BP:32:ALA:HB3	1.91	0.69
45:BY:32:THR:OG1	45:BY:38:TYR:HB2	1.90	0.69
1:AA:12:U:H5"	1:AA:526:C:C4'	2.13	0.69
1:AA:62:U:H4'	1:AA:386:C:H6	1.53	0.69
1:AA:118:U:H1'	1:AA:122:G:C1'	2.21	0.69
1:AA:404:U:H1'	5:AD:19:TYR:CE2	2.23	0.69
1:AA:538:G:C5'	12:AL:142:LYS:N	2.55	0.69
1:AA:619:U:H6	5:AD:142:ASN:CB	2.02	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:924:C:C2'	1:AA:1398:A:H2'	2.21	0.69
1:AA:1071:C:OP1	6:AE:90:ARG:HB2	1.85	0.69
1:AA:1176:A:H3'	9:AI:107:ALA:HB1	1.73	0.69
1:AA:1221:G:OP2	17:AS:80:MET:N	2.25	0.69
1:AA:1329:A:N6	13:AM:94:ASP:HA	2.04	0.69
1:AA:1343:G:O5'	9:AI:138:GLN:HA	1.92	0.69
1:AA:1371:G:OP1	9:AI:13:LYS:HB3	1.92	0.69
2:AT:141:THR:HA	2:AT:481:MET:C	2.12	0.69
7:AG:112:ILE:HG13	7:AG:190:ALA:HA	1.75	0.69
8:AH:26:ILE:HB	8:AH:62:VAL:HG23	1.73	0.69
9:AI:96:VAL:HG11	9:AI:100:SER:CB	2.21	0.69
18:B3:35:U:C3'	23:BD:48:ALA:HB3	2.23	0.69
18:B3:107:U:O2'	44:BX:56:THR:CG2	2.38	0.69
18:B3:518:G:C5'	18:B3:1338:U:C1'	2.69	0.69
18:B3:677:C:H5'	23:BD:232:LEU:O	1.92	0.69
18:B3:797:A:H2'	18:B3:798:G:C1'	2.22	0.69
18:B3:1011:C:P	24:BE:15:ARG:CZ	2.80	0.69
18:B3:1315:G:C4'	42:B0:103:LYS:HE2	2.21	0.69
18:B3:1380:U:H2'	18:B3:1380:U:O2	1.92	0.69
18:B3:1501:A:H5'	35:BP:37:ARG:HD3	1.72	0.69
18:B3:1751:G:C2'	18:B3:1752:G:H5"	2.22	0.69
18:B3:1993:C:O3'	37:BR:71:LYS:HD2	1.93	0.69
18:B3:2136:G:N3	18:B3:2238:A:C2	2.59	0.69
18:B3:2333:G:H2'	29:BJ:113:ILE:O	1.91	0.69
18:B3:2436:U:O2'	46:BZ:80:ALA:CA	2.41	0.69
18:B3:2654:C:C1'	22:BC:259:VAL:HG12	1.86	0.69
20:BA:53:LEU:HD22	20:BA:189:PHE:CD1	2.26	0.69
20:BA:97:LYS:O	20:BA:100:ILE:HG22	1.92	0.69
21:BB:96:ASN:H	21:BB:99:ASN:HD22	1.38	0.69
22:BC:236:LYS:HD3	22:BC:236:LYS:C	2.11	0.69
27:BH:41:ILE:HG23	32:BM:128:LEU:CD1	2.18	0.69
27:BH:67:ALA:O	27:BH:68:LEU:HD22	1.91	0.69
28:BI:135:ILE:HG21	28:BI:159:PHE:CZ	2.28	0.69
29:BJ:44:PRO:HB2	29:BJ:67:HIS:CB	2.23	0.69
32:BM:101:LEU:O	32:BM:101:LEU:HD22	1.92	0.69
34:BO:123:THR:HG23	34:BO:125:ASP:H	1.56	0.69
35:BP:94:TRP:HA	35:BP:97:ARG:NH2	2.08	0.69
37:BR:60:ALA:H	37:BR:74:MET:CB	2.06	0.69
37:BR:121:GLU:OE1	37:BR:124:ASP:HB2	1.92	0.69
42:B0:85:LEU:CB	42:B0:92:TYR:HB2	2.09	0.69
47:B9:56:CYS:H	47:B9:61:LYS:HD3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:160:A:O4'	1:AA:344:A:N6	2.24	0.69
1:AA:499:A:O3'	1:AA:500:G:H5'	1.91	0.69
1:AA:989:C:C5'	1:AA:1013:G:C4	2.69	0.69
2:AT:424:ASP:O	2:AT:425:ASP:HB2	1.91	0.69
3:AB:166:LYS:HA	3:AB:169:ILE:HG12	1.74	0.69
7:AG:107:LEU:H	7:AG:107:LEU:HD23	1.56	0.69
9:AI:13:LYS:HE3	9:AI:75:SER:CA	2.23	0.69
9:AI:51:LEU:CD2	9:AI:58:LYS:HD3	2.21	0.69
10:AJ:103:ILE:O	10:AJ:106:ILE:HG22	1.92	0.69
15:AO:73:ILE:HD11	15:AO:88:TYR:HB3	1.73	0.69
17:AS:61:ARG:O	17:AS:65:LEU:HD13	1.91	0.69
17:AS:111:MET:HG3	17:AS:119:PHE:CZ	2.27	0.69
18:B3:68:U:OP1	39:BT:59:TYR:CZ	2.45	0.69
18:B3:156:C:H4'	31:BL:164:THR:HB	1.75	0.69
18:B3:539:G:O3'	42:B0:18:LYS:HB2	1.93	0.69
18:B3:677:C:O2	23:BD:259:GLN:OE1	2.03	0.69
18:B3:841:A:N6	33:BN:132:HIS:C	2.25	0.69
18:B3:1347:U:O2'	23:BD:241:ALA:CA	2.41	0.69
18:B3:1812:G:H4'	18:B3:2732:U:HO2'	1.56	0.69
18:B3:2320:U:C2'	46:BZ:3:VAL:HG12	2.13	0.69
21:BB:48:VAL:C	21:BB:56:PRO:HB3	2.13	0.69
21:BB:97:VAL:CA	21:BB:165:ILE:HG12	2.22	0.69
21:BB:142:GLU:HG3	21:BB:144:LYS:CD	2.22	0.69
22:BC:9:ARG:O	22:BC:9:ARG:HD2	1.93	0.69
22:BC:239:ARG:C	22:BC:240:LYS:HD2	2.13	0.69
24:BE:188:GLU:HA	24:BE:198:TYR:HB3	1.74	0.69
27:BH:7:GLU:CD	27:BH:8:GLN:H	1.95	0.69
27:BH:44:THR:HG21	27:BH:55:VAL:CG1	2.22	0.69
31:BL:102:GLU:CG	31:BL:168:LYS:HE3	2.22	0.69
33:BN:25:PHE:CG	33:BN:120:GLN:HG2	2.27	0.69
35:BP:94:TRP:CE3	35:BP:95:ILE:HD12	2.27	0.69
35:BP:101:LEU:O	35:BP:105:LEU:HD23	1.91	0.69
36:BQ:12:ARG:HD2	36:BQ:12:ARG:N	2.07	0.69
37:BR:29:SER:O	37:BR:69:LEU:HG	1.92	0.69
39:BT:104:VAL:HG11	39:BT:125:LEU:CD1	2.21	0.69
47:B9:72:THR:O	47:B9:75:ALA:HB3	1.93	0.69
1:AA:754:C:O5'	15:AO:127:TYR:CE1	2.46	0.69
1:AA:1223:C:H5"	17:AS:100:LYS:HE2	1.73	0.69
1:AA:1488:G:H2'	1:AA:1489:G:C8	2.27	0.69
7:AG:122:VAL:HG23	7:AG:123:LEU:CD1	2.13	0.69
13:AM:91:ASP:O	13:AM:109:LEU:HD11	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:183:A:O4'	31:BL:158:ARG:CZ	2.36	0.69
18:B3:537:G:O4'	42:B0:21:HIS:CE1	2.45	0.69
18:B3:677:C:C4'	23:BD:256:LYS:HG2	2.21	0.69
18:B3:751:U:H4'	23:BD:36:THR:HG23	1.71	0.69
18:B3:905:C:H6	41:BV:11:ARG:CZ	2.05	0.69
18:B3:1133:A:C6	18:B3:2501:G:H1'	2.27	0.69
18:B3:1304:U:H3'	23:BD:194:ARG:CD	2.15	0.69
18:B3:1334:C:C2'	42:B0:98:HIS:N	2.31	0.69
18:B3:1358:A:N9	23:BD:92:MET:HG3	2.07	0.69
18:B3:1855:G:H1	21:BB:150:PRO:CD	2.05	0.69
18:B3:1882:C:OP2	21:BB:199:ARG:CA	2.40	0.69
18:B3:1944:G:OP1	21:BB:217:HIS:HB2	1.91	0.69
18:B3:2243:C:O2	31:BL:23:ARG:NH2	2.26	0.69
18:B3:2557:U:H2'	18:B3:2800:A:H8	1.56	0.69
18:B3:2656:G:O3'	22:BC:19:LYS:HA	1.92	0.69
18:B3:2737:C:N4	35:BP:61:ARG:NH2	2.38	0.69
18:B3:2762:C:O3'	37:BR:16:GLY:HA2	1.93	0.69
18:B3:2819:C:O3'	22:BC:90:GLY:C	2.26	0.69
19:B4:49:G:P	24:BE:98:ALA:HB3	2.32	0.69
19:B4:120:A:H5'	24:BE:73:VAL:HB	1.75	0.69
20:BA:98:LYS:HE2	20:BA:102:LYS:HZ1	1.57	0.69
21:BB:44:VAL:HG13	21:BB:59:LYS:O	1.92	0.69
21:BB:187:LYS:HZ3	21:BB:190:LEU:HD13	1.57	0.69
22:BC:113:VAL:HG13	22:BC:117:PHE:CD2	2.28	0.69
22:BC:358:ILE:CG2	38:BS:15:PRO:HG2	2.22	0.69
25:BF:168:ILE:HD13	25:BF:179:SER:HA	1.73	0.69
28:BI:61:SER:HA	28:BI:126:ALA:HB2	1.74	0.69
29:BJ:17:VAL:HG22	29:BJ:18:LEU:O	1.93	0.69
30:BK:94:LYS:HG3	30:BK:95:ASP:N	2.07	0.69
32:BM:26:LEU:HD11	32:BM:97:ALA:C	2.12	0.69
33:BN:104:LYS:HD2	33:BN:106:LEU:CD1	2.16	0.69
34:BO:108:ALA:O	34:BO:111:ARG:HG3	1.91	0.69
35:BP:16:VAL:HB	35:BP:20:LYS:CE	2.23	0.69
35:BP:137:LEU:HA	35:BP:140:HIS:CE1	2.27	0.69
37:BR:92:PHE:HE1	38:BS:20:LEU:CD2	1.96	0.69
40:BU:67:GLU:OE1	40:BU:82:VAL:HG13	1.91	0.69
40:BU:101:PRO:HB3	40:BU:104:LEU:HD21	1.75	0.69
1:AA:25:C:C1'	12:AL:109:ARG:NH1	2.55	0.69
1:AA:860:A:C2'	8:AH:18:LYS:HZ2	2.05	0.69
1:AA:1066:C:O2'	1:AA:1067:A:P	2.51	0.69
1:AA:1226:C:OP2	13:AM:131:LEU:HD21	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1249:C:O4'	9:AI:73:HIS:CE1	2.46	0.69
1:AA:1296:C:H5"	13:AM:52:VAL:O	1.91	0.69
1:AA:1299:A:H5'	13:AM:57:ARG:HH12	0.82	0.69
4:AC:105:LYS:HG2	4:AC:183:ILE:CG2	2.21	0.69
8:AH:35:LYS:HG3	8:AH:109:ILE:CD1	2.23	0.69
16:AQ:74:VAL:CG1	16:AQ:83:ILE:HD11	2.22	0.69
18:B3:771:G:N2	45:BY:48:TRP:HA	2.07	0.69
18:B3:894:A:H2	23:BD:98:MET:CE	2.03	0.69
18:B3:907:A:H4'	18:B3:1328:A:C4'	2.22	0.69
18:B3:1041:U:H5"	41:BV:18:LYS:CG	2.12	0.69
18:B3:1247:A:N6	32:BM:17:ARG:HH12	1.90	0.69
18:B3:1285:U:C4'	25:BF:155:ILE:CG2	2.70	0.69
18:B3:2065:C:H5	22:BC:255:HIS:CE1	2.08	0.69
18:B3:2334:C:C4	29:BJ:114:LYS:HD2	2.26	0.69
18:B3:2368:A:O5'	24:BE:31:TYR:CD2	2.46	0.69
18:B3:2381:C:H1'	46:BZ:10:TYR:HD1	0.90	0.69
18:B3:2519:C:H1'	28:BI:158:LYS:CA	2.04	0.69
18:B3:2913:A:N3	22:BC:125:LYS:O	2.25	0.69
22:BC:211:ASN:CB	22:BC:349:ALA:HB3	2.08	0.69
22:BC:241:THR:CG2	22:BC:247:LYS:HD2	2.23	0.69
23:BD:160:LYS:CE	23:BD:163:GLU:HG2	2.22	0.69
24:BE:199:ILE:HG21	24:BE:219:PHE:O	1.92	0.69
26:BG:112:ALA:HB2	26:BG:121:LYS:HG3	1.73	0.69
27:BH:63:LYS:HZ3	32:BM:130:PRO:CB	2.01	0.69
32:BM:15:VAL:HG12	32:BM:40:LEU:HG	1.73	0.69
32:BM:55:ASP:H	32:BM:58:ARG:HB2	1.58	0.69
33:BN:28:THR:HA	33:BN:31:THR:HG22	1.75	0.69
35:BP:3:LEU:HB3	35:BP:6:GLN:HG2	1.74	0.69
39:BT:75:VAL:CG1	39:BT:80:ILE:HG13	2.22	0.69
40:BU:57:LEU:CD1	40:BU:59:VAL:HG12	2.23	0.69
42:B0:44:ARG:CZ	42:B0:44:ARG:HB2	2.23	0.69
1:AA:58:C:O2'	1:AA:388:G:C5	2.44	0.69
1:AA:59:A:H4'	1:AA:388:G:C4	2.27	0.69
1:AA:144:G:N1	1:AA:199:G:OP1	2.25	0.69
1:AA:317:G:H21	1:AA:1468:A:H1'	1.58	0.69
1:AA:364:A:P	12:AL:50:LYS:CD	2.78	0.69
1:AA:400:C:O3'	5:AD:77:ILE:CG1	2.39	0.69
1:AA:979:C:H4'	17:AS:80:MET:CA	2.23	0.69
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.27	0.69
2:AT:111:PHE:N	2:AT:483:PHE:HB2	1.80	0.69
6:AE:219:ASN:OD1	8:AH:99:GLY:HA3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:200:ALA:CA	7:AG:210:ILE:HD11	2.22	0.69
8:AH:81:LYS:CE	8:AH:123:LYS:HD2	2.23	0.69
9:AI:30:VAL:HG13	9:AI:38:VAL:CG2	2.19	0.69
18:B3:107:U:OP2	44:BX:60:GLU:C	2.28	0.69
18:B3:540:A:H5"	42:B0:17:PHE:C	2.12	0.69
18:B3:1164:U:P	30:BK:50:THR:HB	2.32	0.69
18:B3:1335:C:OP1	42:B0:100:ILE:HD12	1.93	0.69
18:B3:1348:A:C4'	23:BD:38:PHE:CZ	2.71	0.69
18:B3:1349:G:OP1	23:BD:36:THR:CA	2.40	0.69
18:B3:1370:G:H5'	33:BN:63:ASN:H	1.48	0.69
18:B3:2283:G:H5"	28:BI:114:GLY:C	2.07	0.69
18:B3:2552:C:O3'	18:B3:2553:A:N3	2.25	0.69
19:B4:49:G:O5'	24:BE:158:ARG:CG	2.38	0.69
20:BA:54:LYS:CG	20:BA:156:LYS:CB	2.18	0.69
20:BA:54:LYS:HG2	20:BA:156:LYS:CD	2.21	0.69
22:BC:70:GLU:HB2	37:BR:88:ARG:HG2	1.64	0.69
22:BC:310:PHE:H	22:BC:314:GLY:HA2	1.57	0.69
23:BD:245:ARG:HA	23:BD:245:ARG:NE	2.06	0.69
24:BE:163:LEU:O	24:BE:163:LEU:HD23	1.92	0.69
24:BE:183:TRP:HB3	24:BE:187:THR:HA	1.72	0.69
25:BF:231:ARG:HB3	25:BF:234:PHE:CD1	2.27	0.69
26:BG:149:LEU:N	26:BG:149:LEU:HD22	2.08	0.69
27:BH:21:LYS:O	27:BH:24:ILE:HD12	1.93	0.69
28:BI:104:SER:OG	28:BI:112:GLN:HG2	1.91	0.69
29:BJ:32:ALA:H	29:BJ:34:LYS:HE3	1.58	0.69
29:BJ:59:ARG:HD2	29:BJ:62:GLU:CA	2.13	0.69
29:BJ:83:LEU:HD21	29:BJ:90:LEU:CG	2.22	0.69
29:BJ:103:PHE:N	29:BJ:122:PHE:HB2	2.08	0.69
31:BL:185:GLY:HA2	31:BL:188:LYS:HA	1.75	0.69
32:BM:24:LYS:O	32:BM:27:LEU:HB3	1.92	0.69
35:BP:9:LEU:HD22	35:BP:12:SER:CB	2.22	0.69
35:BP:43:LEU:CG	35:BP:49:ILE:HG13	2.02	0.69
40:BU:39:LEU:CD1	40:BU:43:TYR:HE1	2.05	0.69
41:BV:75:ASP:HA	41:BV:78:TRP:HD1	1.56	0.69
42:B0:61:LYS:O	42:B0:62:LYS:HG3	1.93	0.69
43:BW:14:ASN:O	43:BW:19:LEU:HG	1.93	0.69
45:BY:46:TYR:HD2	45:BY:48:TRP:CE3	2.10	0.69
47:B9:55:THR:HG21	47:B9:62:THR:CA	2.21	0.69
1:AA:45:U:C5'	1:AA:307:C:O2'	2.41	0.69
1:AA:70:G:O2'	1:AA:152:A:N3	2.25	0.69
1:AA:190(D):U:H3	16:AQ:111:SER:N	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:281:G:O2'	1:AA:282:A:OP2	2.11	0.69
1:AA:293:G:C5'	1:AA:610:G:N3	2.49	0.69
1:AA:617:G:O6	5:AD:143:ILE:HD13	1.92	0.69
1:AA:619:U:H1'	5:AD:132:ARG:H	1.57	0.69
1:AA:701:C:H5'	1:AA:703:G:O4'	1.92	0.69
1:AA:712:A:H61	11:AK:124:SER:HA	1.55	0.69
1:AA:860:A:C3'	8:AH:18:LYS:HZ2	2.06	0.69
1:AA:924:C:C6	1:AA:1398:A:N1	2.61	0.69
1:AA:1202:G:H1	10:AJ:74:GLU:CG	2.05	0.69
1:AA:1249:C:C1'	9:AI:73:HIS:ND1	2.55	0.69
1:AA:1302:U:O5'	13:AM:54:LEU:HD21	1.80	0.69
1:AA:1342:C:O3'	9:AI:139:LYS:HG2	1.93	0.69
3:AB:36:VAL:CG2	3:AB:148:LEU:HD13	2.23	0.69
5:AD:96:VAL:O	5:AD:103:ASP:HB3	1.93	0.69
7:AG:199:ASN:CB	7:AG:207:SER:HB2	2.22	0.69
8:AH:52:ILE:HG21	8:AH:61:VAL:HG23	1.75	0.69
9:AI:97:ASP:CG	9:AI:103:GLU:HB2	2.12	0.69
9:AI:98:GLU:CA	9:AI:105:LYS:HB3	2.20	0.69
10:AJ:69:LYS:CA	14:AN:39:ARG:NH1	2.56	0.69
12:AL:87:VAL:HA	12:AL:124:VAL:HG22	1.75	0.69
14:AN:37:ILE:HG21	14:AN:40:GLN:HB2	1.73	0.69
15:AO:74:LEU:HA	15:AO:89:TYR:HE1	1.57	0.69
16:AQ:133:THR:H	16:AQ:135:ARG:HH21	1.40	0.69
18:B3:120:A:N3	45:BY:16:THR:CG2	2.51	0.69
18:B3:220:C:N3	41:BV:54:LYS:NZ	2.40	0.69
18:B3:539:G:C4	42:B0:50:ILE:HD11	2.26	0.69
18:B3:540:A:C5'	42:B0:18:LYS:N	2.55	0.69
18:B3:672:G:H5'	23:BD:214:ILE:CB	2.20	0.69
18:B3:677:C:C5'	23:BD:256:LYS:CE	2.54	0.69
18:B3:730:G:H4'	41:BV:132:LEU:HD11	1.74	0.69
18:B3:1118:A:H5'	18:B3:1228:C:C6	2.25	0.69
18:B3:1133:A:N1	18:B3:2501:G:N9	2.41	0.69
18:B3:1304:U:O2'	23:BD:194:ARG:HB3	1.93	0.69
18:B3:1939:U:H4'	21:BB:241:ARG:HG2	1.75	0.69
18:B3:2274:A:O2'	31:BL:79:THR:C	2.31	0.69
18:B3:2579:G:H4'	18:B3:2680:A:C1'	2.22	0.69
18:B3:2708:G:OP1	22:BC:64:SER:OG	2.10	0.69
18:B3:2734:G:OP1	35:BP:79:LYS:HB2	1.91	0.69
18:B3:2820:A:O4'	22:BC:89:VAL:HB	1.93	0.69
18:B3:2847:G:P	22:BC:174:LYS:HZ1	2.14	0.69
21:BB:189:ARG:HE	21:BB:189:ARG:HA	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:92:VAL:CG2	22:BC:101:LEU:HD21	2.23	0.69
22:BC:218:ALA:HB3	22:BC:329:GLY:O	1.93	0.69
22:BC:282:TYR:HD2	22:BC:324:LYS:HB3	1.56	0.69
23:BD:9:SER:H	23:BD:15:THR:CG2	2.06	0.69
23:BD:115:ASN:O	23:BD:119:TYR:HB2	1.92	0.69
23:BD:137:ARG:CD	23:BD:242:HIS:HB3	2.21	0.69
23:BD:137:ARG:HD2	23:BD:243:LEU:H	1.58	0.69
23:BD:192:LYS:HD2	23:BD:193:TYR:N	2.07	0.69
23:BD:219:ARG:NH2	23:BD:220:ASN:HA	2.07	0.69
24:BE:22:ARG:HH21	24:BE:27:LYS:HG3	1.57	0.69
24:BE:75:LEU:HB2	24:BE:113:LEU:HG	1.75	0.69
25:BF:158:GLN:O	25:BF:159:ARG:HG3	1.93	0.69
28:BI:89:VAL:HA	28:BI:136:PHE:HB2	1.74	0.69
28:BI:103:LEU:CB	28:BI:118:ALA:H	2.05	0.69
29:BJ:16:LEU:N	29:BJ:70:VAL:HG11	2.08	0.69
29:BJ:75:ALA:HB1	29:BJ:78:ILE:HD11	1.75	0.69
32:BM:26:LEU:CD2	32:BM:97:ALA:HB1	2.23	0.69
32:BM:84:ARG:HD2	32:BM:84:ARG:N	2.06	0.69
32:BM:84:ARG:NH2	32:BM:87:VAL:HG11	2.07	0.69
33:BN:71:GLN:HA	33:BN:74:GLU:O	1.93	0.69
33:BN:106:LEU:HB2	33:BN:111:LEU:HD21	1.75	0.69
34:BO:62:VAL:HG11	34:BO:87:VAL:HA	1.73	0.69
34:BO:63:SER:HA	34:BO:88:THR:CG2	2.23	0.69
34:BO:66:ARG:HH12	34:BO:67:ILE:HG12	1.58	0.69
34:BO:81:VAL:HB	34:BO:140:LEU:HD12	1.73	0.69
34:BO:115:VAL:HG12	34:BO:116:LYS:H	1.57	0.69
36:BQ:43:LYS:HA	36:BQ:58:GLN:CD	2.12	0.69
36:BQ:45:ASN:ND2	36:BQ:48:ILE:HG21	2.08	0.69
39:BT:109:VAL:HA	39:BT:123:VAL:HA	1.74	0.69
40:BU:27:ARG:CA	40:BU:78:PHE:HE2	2.04	0.69
40:BU:31:LEU:HD12	40:BU:74:TYR:CG	2.28	0.69
40:BU:86:THR:HG21	40:BU:97:ILE:HG12	1.75	0.69
41:BV:31:ARG:HA	41:BV:31:ARG:CZ	2.23	0.69
41:BV:135:GLU:HB3	41:BV:136:LYS:CE	2.22	0.69
44:BX:31:LEU:HD21	44:BX:40:SER:CB	2.15	0.69
46:BZ:20:THR:HG22	46:BZ:21:GLN:H	1.56	0.69
46:BZ:54:LYS:HB2	46:BZ:55:PRO:HD3	1.73	0.69
1:AA:352:C:H4'	1:AA:354:G:OP1	1.93	0.69
1:AA:523:A:C2	12:AL:115:GLY:HA3	2.24	0.69
1:AA:979:C:O2	17:AS:56:PHE:CD2	2.46	0.69
1:AA:1075:C:H5"	3:AB:103:PRO:HD2	0.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1086:U:O3'	1:AA:1389:C:C4'	2.41	0.69
1:AA:1301:U:C4'	13:AM:29:VAL:C	2.59	0.69
2:AT:27:HIS:HD2	18:B3:2698:G:OP1	1.76	0.69
3:AB:109:TYR:CE1	3:AB:114:PHE:HB3	2.27	0.69
9:AI:51:LEU:HD11	9:AI:84:ILE:HD11	1.74	0.69
11:AK:38:ILE:HD13	11:AK:69:LYS:HB3	1.74	0.69
13:AM:26:ILE:C	13:AM:57:ARG:HD3	2.13	0.69
17:AS:107:ILE:HA	17:AS:111:MET:SD	2.33	0.69
18:B3:138:U:H6	18:B3:140:G:H1	1.39	0.69
18:B3:392:U:O4'	31:BL:195:THR:HG23	1.93	0.69
18:B3:676:C:O2	23:BD:231:SER:HA	1.92	0.69
18:B3:944:G:C1'	25:BF:100:LYS:HZ3	2.03	0.69
18:B3:1676:G:H8	39:BT:113:VAL:HG22	1.58	0.69
18:B3:1805:G:C6	18:B3:2883:A:N3	2.60	0.69
18:B3:2300:A:N3	36:BQ:10:ARG:NH1	2.40	0.69
18:B3:2437:A:H5"	46:BZ:78:THR:OG1	1.93	0.69
18:B3:2526:C:C4'	18:B3:2605:G:C4'	2.69	0.69
18:B3:2818:A:O5'	22:BC:99:ARG:HB3	1.93	0.69
19:B4:26:C:OP1	24:BE:81:HIS:ND1	2.26	0.69
21:BB:2:ARG:HG3	21:BB:206:VAL:CG2	2.20	0.69
22:BC:185:GLY:H	22:BC:190:LYS:CD	2.05	0.69
22:BC:246:ARG:NH1	22:BC:248:VAL:HA	2.07	0.69
22:BC:302:LYS:HB2	22:BC:320:PHE:CE2	2.28	0.69
24:BE:15:ARG:HA	24:BE:15:ARG:HE	1.57	0.69
25:BF:183:LEU:O	25:BF:187:ILE:HG12	1.92	0.69
26:BG:198:ALA:CA	26:BG:199:LEU:HD22	2.23	0.69
27:BH:160:ASP:HA	27:BH:163:GLN:CG	2.23	0.69
28:BI:36:LEU:HG	28:BI:37:GLY:N	2.08	0.69
30:BK:14:TYR:O	30:BK:15:LEU:HD23	1.93	0.69
30:BK:125:LEU:O	30:BK:128:VAL:HG22	1.93	0.69
31:BL:187:ARG:HH11	31:BL:188:LYS:N	1.91	0.69
34:BO:62:VAL:CG1	34:BO:87:VAL:HA	2.22	0.69
36:BQ:74:VAL:O	36:BQ:75:ILE:HG22	1.92	0.69
37:BR:80:ARG:HB2	37:BR:99:ALA:HB2	1.75	0.69
39:BT:59:TYR:OH	44:BX:55:LEU:CD1	2.33	0.69
41:BV:74:LEU:CD2	41:BV:117:ILE:HG21	2.22	0.69
41:BV:116:ARG:HD3	41:BV:116:ARG:O	1.93	0.69
43:BW:11:TYR:HE1	43:BW:72:LEU:HB3	1.56	0.69
43:BW:32:VAL:O	43:BW:35:ILE:HG13	1.91	0.69
46:BZ:76:CYS:SG	46:BZ:78:THR:HG22	2.33	0.69
1:AA:860:A:C5'	3:AB:133:LYS:HZ2	2.04	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:958:A:H2	17:AS:102:PHE:HD1	1.39	0.69
1:AA:1351:U:H2'	1:AA:1352:C:H6	1.58	0.69
1:AA:1404:C:H2'	1:AA:1519:A:C5'	2.22	0.69
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.27	0.69
7:AG:200:ALA:HA	7:AG:210:ILE:CD1	2.22	0.69
9:AI:29:LYS:HD3	9:AI:32:GLY:HA2	1.74	0.69
18:B3:95:A:H5"	18:B3:96:A:H3'	1.74	0.69
18:B3:473:A:C5'	45:BY:48:TRP:CE2	2.68	0.69
18:B3:922:A:P	41:BV:41:ARG:NE	2.63	0.69
18:B3:1098:A:OP2	25:BF:216:PRO:CA	2.41	0.69
18:B3:2135:A:C2	18:B3:2239:C:N3	2.54	0.69
18:B3:2349:G:C5'	29:BJ:15:LYS:HZ3	2.05	0.69
18:B3:2655:U:H6	22:BC:261:TRP:NE1	1.90	0.69
18:B3:2656:G:H5'	22:BC:19:LYS:NZ	2.08	0.69
21:BB:89:ALA:HA	21:BB:100:VAL:CG2	2.23	0.69
23:BD:75:ARG:HD3	23:BD:80:GLY:CA	2.23	0.69
24:BE:200:PHE:HD1	24:BE:202:GLY:N	1.91	0.69
25:BF:83:VAL:CG2	25:BF:136:GLY:H	2.03	0.69
26:BG:214:VAL:O	26:BG:217:ILE:HG22	1.92	0.69
27:BH:20:ILE:HG13	27:BH:25:VAL:N	2.05	0.69
27:BH:24:ILE:O	27:BH:25:VAL:HG12	1.92	0.69
27:BH:63:LYS:CE	32:BM:129:LYS:CB	2.53	0.69
28:BI:52:LEU:HD23	28:BI:134:ILE:CB	2.20	0.69
32:BM:72:PHE:HB3	32:BM:77:ARG:CB	2.22	0.69
34:BO:87:VAL:CG1	34:BO:106:PHE:HB3	2.23	0.69
37:BR:95:PHE:CD1	38:BS:21:PHE:CB	2.73	0.69
40:BU:57:LEU:CA	40:BU:67:GLU:HG3	2.23	0.69
40:BU:66:GLN:O	40:BU:67:GLU:HG2	1.92	0.69
41:BV:77:LEU:HD12	41:BV:77:LEU:H	1.57	0.69
41:BV:81:ILE:HG23	41:BV:82:PRO:HA	1.74	0.69
42:B0:101:SER:HB2	42:B0:105:ARG:HG2	1.75	0.69
1:AA:131:C:P	16:AQ:128:ARG:HB3	2.33	0.68
1:AA:190(D):U:H3'	16:AQ:137:ASN:HA	1.68	0.68
1:AA:328:C:H4'	1:AA:329:A:O5'	1.93	0.68
1:AA:496:A:H4'	1:AA:497:A:OP1	1.92	0.68
1:AA:621:A:N7	5:AD:143:ILE:HG13	2.08	0.68
1:AA:678:U:H1'	11:AK:125:THR:HG22	1.72	0.68
1:AA:1176:A:C2'	9:AI:107:ALA:CA	2.62	0.68
2:AT:108:HIS:ND1	2:AT:540:ILE:CB	2.56	0.68
4:AC:105:LYS:HG3	4:AC:172:ARG:CB	2.23	0.68
4:AC:159:SER:HB2	4:AC:167:ILE:CG1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:96:ARG:HE	6:AE:116:THR:CG2	2.06	0.68
9:AI:48:TYR:HD1	9:AI:84:ILE:HD13	1.57	0.68
18:B3:12:U:H2'	18:B3:13:G:H5'	1.75	0.68
18:B3:219:G:H3'	18:B3:220:C:H5"	1.75	0.68
18:B3:263:U:O4'	26:BG:161:LEU:HD12	1.93	0.68
18:B3:449:A:H5"	18:B3:1306:U:C6	2.26	0.68
18:B3:1305:C:OP2	23:BD:191:GLY:CA	2.41	0.68
18:B3:1315:G:N2	42:B0:107:VAL:HG11	2.04	0.68
18:B3:1350:U:H4'	23:BD:46:ARG:H	1.57	0.68
18:B3:1688:G:H1'	45:BY:5:PRO:HG3	1.74	0.68
18:B3:1705:C:H4'	35:BP:62:THR:CG2	2.21	0.68
20:BA:96:ASN:OD1	20:BA:99:LEU:HB2	1.93	0.68
21:BB:50:ASP:HB2	21:BB:53:ARG:CG	2.23	0.68
21:BB:97:VAL:CA	21:BB:165:ILE:HG21	2.23	0.68
21:BB:180:LYS:HE2	21:BB:181:ALA:HB2	1.74	0.68
22:BC:88:VAL:CG1	22:BC:104:VAL:HG11	2.19	0.68
23:BD:118:ARG:HA	23:BD:121:THR:OG1	1.93	0.68
27:BH:10:ILE:H	27:BH:54:LYS:HB2	1.59	0.68
27:BH:42:ASP:N	32:BM:125:VAL:N	2.40	0.68
31:BL:98:ARG:HA	31:BL:129:PHE:HE2	1.57	0.68
33:BN:66:ILE:HB	33:BN:79:LYS:HD2	1.74	0.68
33:BN:73:LYS:HD2	33:BN:73:LYS:H	1.57	0.68
36:BQ:39:ILE:HD11	36:BQ:99:SER:HB3	1.75	0.68
37:BR:21:ALA:HB3	37:BR:36:ILE:HD12	1.73	0.68
37:BR:92:PHE:HE1	38:BS:20:LEU:CD1	2.03	0.68
39:BT:114:ARG:HB3	39:BT:116:ASN:N	2.03	0.68
40:BU:100:HIS:CB	40:BU:103:LYS:HG3	2.22	0.68
41:BV:111:ILE:O	41:BV:129:VAL:HG23	1.93	0.68
41:BV:129:VAL:HG22	41:BV:133:ALA:HB3	1.75	0.68
1:AA:580:U:H5'	15:AO:112:PHE:CE1	2.29	0.68
4:AC:45:THR:O	4:AC:83:ILE:HG23	1.94	0.68
5:AD:131:GLN:HG2	5:AD:133:HIS:NE2	2.07	0.68
13:AM:88:ARG:NH2	13:AM:115:ARG:NH1	2.41	0.68
13:AM:117:LYS:HE2	13:AM:127:HIS:HB3	1.74	0.68
18:B3:26:U:C2'	18:B3:1319:G:O2'	2.40	0.68
18:B3:402:U:H5"	31:BL:97:LEU:HD21	1.75	0.68
18:B3:487:G:C3'	40:BU:90:VAL:CB	2.56	0.68
18:B3:664:U:P	23:BD:115:ASN:HA	2.32	0.68
18:B3:672:G:P	23:BD:214:ILE:HG23	2.33	0.68
18:B3:1206:C:O2'	18:B3:1207:A:C4'	2.41	0.68
18:B3:1343:C:C2'	23:BD:188:ALA:HB1	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1383:U:C2'	43:BW:32:VAL:HG11	2.23	0.68
18:B3:1396:C:O2'	35:BP:2:ASN:HB3	1.92	0.68
18:B3:2165:G:C5	20:BA:60:ARG:HD2	2.27	0.68
18:B3:2433:A:H5"	46:BZ:36:ALA:N	2.08	0.68
18:B3:2673:U:C1'	22:BC:98:LEU:HD23	2.23	0.68
19:B4:34:A:C2	24:BE:185:PHE:HA	2.29	0.68
21:BB:195:TRP:CZ3	21:BB:197:LYS:HB3	2.27	0.68
22:BC:359:ASP:HA	38:BS:14:TYR:CB	2.23	0.68
23:BD:13:GLU:O	23:BD:15:THR:HG23	1.93	0.68
28:BI:6:ALA:HB1	28:BI:10:ARG:HE	1.58	0.68
29:BJ:148:GLY:HA3	29:BJ:151:HIS:CE1	2.27	0.68
31:BL:22:GLN:NE2	31:BL:25:ARG:HG2	2.08	0.68
31:BL:64:ARG:HD2	31:BL:64:ARG:H	1.57	0.68
31:BL:102:GLU:HG2	31:BL:168:LYS:CE	2.23	0.68
31:BL:177:HIS:O	31:BL:181:ASN:HB2	1.91	0.68
38:BS:23:ARG:HG3	38:BS:28:ILE:CG1	2.22	0.68
38:BS:31:PHE:CE1	38:BS:37:ALA:HA	2.28	0.68
41:BV:110:LYS:H	41:BV:110:LYS:CE	2.03	0.68
41:BV:113:GLY:HA3	41:BV:133:ALA:HA	1.75	0.68
44:BX:16:GLN:O	44:BX:19:SER:HB3	1.93	0.68
47:B9:54:TRP:O	47:B9:55:THR:HG23	1.92	0.68
1:AA:13:U:O5'	1:AA:914:A:OP2	2.11	0.68
1:AA:190(D):U:O2	16:AQ:111:SER:CB	2.41	0.68
1:AA:754:C:O4'	15:AO:127:TYR:CG	2.46	0.68
1:AA:1115:C:H4'	10:AJ:64:LYS:HZ1	1.59	0.68
1:AA:1343:G:H5'	9:AI:138:GLN:N	2.08	0.68
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.29	0.68
2:AT:465:LYS:HG2	2:AT:514:SER:OG	1.91	0.68
2:AT:536:LEU:CB	18:B3:2698:G:HO2'	2.03	0.68
3:AB:168:SER:O	3:AB:172:ILE:HD12	1.94	0.68
4:AC:105:LYS:HD2	4:AC:183:ILE:HB	1.75	0.68
18:B3:29:C:O3'	18:B3:1342:C:OP1	2.12	0.68
18:B3:71:G:O2'	44:BX:48:ARG:NH1	2.26	0.68
18:B3:538:C:H2'	42:B0:21:HIS:CG	2.29	0.68
18:B3:676:C:C6	23:BD:233:ASN:OD1	2.46	0.68
18:B3:698:A:OP1	41:BV:113:GLY:O	2.11	0.68
18:B3:1006:A:C5'	28:BI:16:PRO:HB3	2.17	0.68
18:B3:1167:G:OP1	30:BK:45:ASP:C	2.32	0.68
18:B3:1209:C:H2'	18:B3:1210:G:H8	1.57	0.68
18:B3:1268:C:H5'	42:B0:61:LYS:CB	2.22	0.68
18:B3:1507:C:OP1	39:BT:122:TYR:OH	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1681:G:H4'	18:B3:1682:A:C8	2.27	0.68
18:B3:1736:A:OP1	22:BC:243:ARG:CB	2.41	0.68
18:B3:1804:A:O3'	18:B3:2875:A:O2'	2.10	0.68
18:B3:1837:G:O6	45:BY:2:LYS:HB3	1.89	0.68
18:B3:2334:C:H5	29:BJ:114:LYS:HZ3	1.41	0.68
18:B3:2505:G:O2'	18:B3:2506:A:H5'	1.91	0.68
19:B4:14:G:H8	19:B4:14:G:H5'	1.58	0.68
22:BC:116:ARG:HH11	22:BC:176:HIS:HB3	1.56	0.68
24:BE:140:ARG:HB2	24:BE:141:PRO:HD3	1.73	0.68
27:BH:103:ILE:CG2	27:BH:134:ILE:HG21	2.23	0.68
28:BI:59:GLN:HA	28:BI:128:ARG:HA	1.74	0.68
28:BI:69:ARG:NH1	28:BI:70:ILE:HG23	2.07	0.68
29:BJ:15:LYS:HA	29:BJ:70:VAL:CG2	2.16	0.68
29:BJ:16:LEU:HD13	29:BJ:16:LEU:H	1.56	0.68
29:BJ:162:PHE:HD1	29:BJ:166:TYR:CE2	2.09	0.68
31:BL:42:THR:HG22	31:BL:43:ARG:HH11	1.57	0.68
31:BL:138:HIS:HB3	31:BL:141:ILE:CG2	2.23	0.68
40:BU:89:LYS:HE2	40:BU:93:ALA:C	2.13	0.68
40:BU:112:ASP:HB3	40:BU:113:LYS:CE	2.23	0.68
41:BV:95:LYS:HZ3	41:BV:96:GLU:H	1.41	0.68
42:B0:42:VAL:HA	42:B0:49:ASN:ND2	2.07	0.68
46:BZ:11:CYS:SG	46:BZ:73:CYS:HB3	2.33	0.68
1:AA:59:A:H5'	1:AA:388:G:N7	1.90	0.68
1:AA:190(D):U:O2'	16:AQ:109:HIS:O	2.11	0.68
1:AA:190(F):G:N3	1:AA:265:G:OP2	2.26	0.68
1:AA:1503:A:C2'	1:AA:1507:A:C5'	2.69	0.68
3:AB:119:LEU:HG	3:AB:120:VAL:N	2.08	0.68
5:AD:60:LEU:CD2	5:AD:64:GLU:HG3	2.24	0.68
5:AD:164:PHE:CZ	5:AD:183:ALA:HB1	2.28	0.68
7:AG:84:ALA:HB3	7:AG:89:ILE:HG13	1.75	0.68
18:B3:471:G:HO2'	45:BY:34:SER:HG	1.01	0.68
18:B3:517:U:O2'	18:B3:1339:G:H1'	1.92	0.68
18:B3:905:C:C2	18:B3:1330:A:C4	2.74	0.68
18:B3:1313:A:OP1	42:B0:105:ARG:NE	2.27	0.68
18:B3:1343:C:C2	23:BD:188:ALA:N	2.61	0.68
18:B3:1349:G:N3	23:BD:42:ASN:OD1	2.16	0.68
18:B3:2826:G:C1'	22:BC:124:SER:H	2.06	0.68
20:BA:49:PHE:HD2	20:BA:193:LEU:CD2	2.05	0.68
22:BC:38:LYS:HB2	22:BC:39:PRO:C	2.14	0.68
22:BC:316:ILE:CD1	22:BC:320:PHE:HE1	2.07	0.68
22:BC:359:ASP:CA	38:BS:14:TYR:HB3	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:133:LEU:HD21	23:BD:243:LEU:HG	1.75	0.68
23:BD:191:GLY:HA3	23:BD:197:ARG:HD2	1.75	0.68
24:BE:49:TYR:CE2	24:BE:144:VAL:HG22	2.28	0.68
25:BF:152:PHE:N	25:BF:162:LEU:HG	2.08	0.68
27:BH:97:PHE:CE2	27:BH:119:GLY:HA3	2.27	0.68
28:BI:18:PRO:HG3	28:BI:94:PHE:HD2	1.59	0.68
32:BM:17:ARG:CB	32:BM:121:GLN:HG2	2.21	0.68
33:BN:115:HIS:H	33:BN:148:VAL:HB	1.59	0.68
35:BP:43:LEU:O	35:BP:48:THR:HG22	1.92	0.68
36:BQ:75:ILE:HB	36:BQ:89:LEU:CA	2.24	0.68
37:BR:114:ILE:HD11	37:BR:133:SER:CA	2.22	0.68
38:BS:5:ILE:HD13	38:BS:5:ILE:H	1.57	0.68
41:BV:81:ILE:CG2	41:BV:95:LYS:HD2	2.21	0.68
41:BV:97:THR:HG21	41:BV:124:VAL:CA	2.23	0.68
43:BW:9:ARG:HH21	43:BW:74:ILE:HB	1.58	0.68
1:AA:676:A:C3'	11:AK:121:PRO:HD2	2.23	0.68
1:AA:686:U:HO2'	1:AA:687:A:H8	1.41	0.68
1:AA:915:A:H2'	1:AA:916:G:H5'	1.76	0.68
1:AA:939:G:H2'	1:AA:940:C:C6	2.27	0.68
1:AA:1219:U:C4'	17:AS:58:LYS:O	2.19	0.68
3:AB:22:HIS:CD2	3:AB:172:ILE:HD11	2.29	0.68
4:AC:137:VAL:CB	4:AC:149:MET:HG2	2.20	0.68
7:AG:112:ILE:CG1	7:AG:190:ALA:HA	2.23	0.68
9:AI:97:ASP:CB	9:AI:103:GLU:H	1.97	0.68
10:AJ:61:LYS:HE2	10:AJ:86:ILE:HB	1.75	0.68
11:AK:90:THR:HG22	11:AK:92:THR:H	1.57	0.68
18:B3:28:G:OP1	18:B3:1318:A:H4'	1.93	0.68
18:B3:906:C:C5	18:B3:1329:A:C4	2.74	0.68
18:B3:1814:G:P	18:B3:2733:U:C2	2.82	0.68
18:B3:1819:G:H2'	18:B3:1820:G:H4'	1.74	0.68
18:B3:2123:A:C4'	31:BL:88:VAL:HG21	2.23	0.68
18:B3:2274:A:C2'	31:BL:80:TYR:HD2	2.06	0.68
18:B3:2308:U:HO2'	28:BI:115:MET:HB3	1.56	0.68
18:B3:2434:A:P	46:BZ:35:PHE:CB	2.81	0.68
20:BA:215:ARG:N	20:BA:215:ARG:HH11	1.90	0.68
21:BB:47:ILE:CD1	47:B9:53:ILE:CG1	2.71	0.68
21:BB:182:GLY:HA2	21:BB:185:PHE:CD1	2.28	0.68
22:BC:231:ARG:HB3	22:BC:232:TRP:CE3	2.28	0.68
24:BE:64:ILE:HG21	24:BE:109:THR:OG1	1.92	0.68
27:BH:20:ILE:HG23	27:BH:47:LYS:HE3	1.76	0.68
30:BK:125:LEU:HD13	30:BK:129:THR:HG23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:163:LEU:CD1	31:BL:165:ALA:H	2.05	0.68
33:BN:66:ILE:HB	33:BN:79:LYS:HZ2	1.57	0.68
37:BR:32:ARG:HG2	37:BR:33:ASN:N	2.07	0.68
43:BW:9:ARG:NH2	43:BW:72:LEU:HD21	2.08	0.68
43:BW:61:ARG:CD	43:BW:65:GLY:HA3	2.23	0.68
46:BZ:8:LYS:O	46:BZ:21:GLN:HA	1.94	0.68
1:AA:68:G:C8	1:AA:70:G:H3'	2.29	0.68
1:AA:618:C:C2'	5:AD:142:ASN:OD1	2.40	0.68
1:AA:959:A:H2'	17:AS:100:LYS:HA	1.75	0.68
1:AA:987:G:C6	17:AS:77:ARG:HD3	2.28	0.68
1:AA:1064:G:C4'	1:AA:1065:U:H5'	2.24	0.68
1:AA:1249:C:O2'	9:AI:72:GLY:C	2.32	0.68
2:AT:737:GLU:O	18:B3:1199:A:C6	2.47	0.68
18:B3:524:A:C5'	33:BN:29:ARG:HH21	2.06	0.68
18:B3:1166:G:O5'	30:BK:48:LYS:CE	2.42	0.68
18:B3:1166:G:O5'	30:BK:48:LYS:HE2	1.93	0.68
18:B3:1529:G:C4'	21:BB:69:ARG:HH11	2.03	0.68
18:B3:1875:A:O5'	21:BB:150:PRO:CG	2.42	0.68
18:B3:2251:G:H2'	18:B3:2252:A:H8	1.58	0.68
18:B3:2407:G:H21	46:BZ:19:HIS:CE1	2.11	0.68
18:B3:2457:U:C3'	46:BZ:83:THR:HA	2.23	0.68
18:B3:2581:U:C4'	18:B3:2600:A:N1	2.57	0.68
19:B4:49:G:O3'	24:BE:95:TRP:C	2.30	0.68
20:BA:51:GLY:O	20:BA:54:LYS:CB	2.40	0.68
20:BA:65:ILE:HD11	20:BA:151:VAL:HG23	1.75	0.68
20:BA:195:LYS:HD2	20:BA:195:LYS:O	1.93	0.68
21:BB:19:THR:O	21:BB:22:ARG:HD2	1.94	0.68
21:BB:208:HIS:HB2	21:BB:209:PRO:O	1.94	0.68
22:BC:317:LYS:O	22:BC:317:LYS:HD3	1.92	0.68
23:BD:75:ARG:CG	23:BD:80:GLY:HA2	2.23	0.68
23:BD:128:THR:CG2	23:BD:247:VAL:HG21	2.24	0.68
25:BF:123:LEU:HD13	25:BF:123:LEU:O	1.93	0.68
25:BF:177:ILE:HG23	25:BF:178:LEU:N	2.09	0.68
26:BG:159:ILE:HD13	31:BL:40:ARG:NH1	2.07	0.68
27:BH:107:ASP:CA	27:BH:112:ILE:HG12	2.23	0.68
28:BI:31:ILE:HA	28:BI:66:GLU:HB2	1.75	0.68
31:BL:45:ASP:O	31:BL:49:ARG:HB2	1.93	0.68
31:BL:64:ARG:HD2	31:BL:64:ARG:N	2.07	0.68
32:BM:95:LYS:CB	32:BM:98:LEU:HD23	2.23	0.68
33:BN:84:ALA:HB1	33:BN:85:LYS:HZ2	1.59	0.68
34:BO:42:ALA:HB3	34:BO:134:GLY:HA3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:63:SER:N	34:BO:88:THR:HG22	2.07	0.68
34:BO:65:SER:HB3	34:BO:91:ALA:HB2	1.76	0.68
38:BS:52:THR:HG22	38:BS:54:LEU:H	1.59	0.68
40:BU:14:LYS:CE	40:BU:15:ALA:H	2.06	0.68
45:BY:15:HIS:H	45:BY:27:HIS:HA	1.59	0.68
1:AA:69:G:OP2	1:AA:172:A:H2'	1.94	0.68
1:AA:255:G:H4'	16:AQ:80:HIS:C	2.14	0.68
1:AA:1128:C:H2'	1:AA:1129:C:H5"	1.74	0.68
1:AA:1148:U:H5"	9:AI:9:PHE:CE2	2.27	0.68
1:AA:1224:G:C2	13:AM:137:HIS:NE2	2.48	0.68
1:AA:1225:A:C8	17:AS:100:LYS:CE	2.77	0.68
1:AA:1368:G:O2'	1:AA:1369:C:H5'	1.93	0.68
2:AT:114:GLU:CG	2:AT:537:HIS:HE1	2.05	0.68
3:AB:58:LEU:HD12	3:AB:61:ARG:NH1	2.07	0.68
4:AC:101:ALA:N	4:AC:185:VAL:HG21	2.09	0.68
5:AD:132:ARG:HB3	5:AD:140:ILE:CD1	2.23	0.68
8:AH:75:SER:HB3	8:AH:76:PRO:HD3	1.75	0.68
16:AQ:70:LEU:HD13	16:AQ:87:ARG:NH1	2.08	0.68
18:B3:68:U:H5'	44:BX:51:ILE:CD1	2.24	0.68
18:B3:538:C:H2'	42:B0:21:HIS:ND1	2.09	0.68
18:B3:553:G:O2'	18:B3:554:G:H5'	1.94	0.68
18:B3:617:C:N3	42:B0:49:ASN:N	2.32	0.68
18:B3:672:G:C4'	23:BD:214:ILE:HG13	2.24	0.68
18:B3:844:A:OP2	33:BN:131:ALA:N	2.21	0.68
18:B3:1370:G:N9	33:BN:62:PHE:CE1	1.91	0.68
18:B3:1448:A:OP2	39:BT:112:LEU:HD13	1.92	0.68
18:B3:1706:G:P	35:BP:65:HIS:HD2	2.09	0.68
18:B3:1714:C:H5'	18:B3:2745:C:H1'	1.74	0.68
18:B3:2050:G:O4'	33:BN:82:TRP:CE3	2.46	0.68
18:B3:2780:C:O2'	27:BH:159:ALA:HB2	1.82	0.68
19:B4:6:C:H1'	24:BE:72:ASP:OD1	1.94	0.68
20:BA:60:ARG:HD3	20:BA:61:PRO:HD3	1.76	0.68
21:BB:47:ILE:HG22	21:BB:58:ALA:HB2	1.75	0.68
21:BB:172:GLY:N	47:B9:67:ALA:CB	2.57	0.68
21:BB:220:LYS:HZ3	21:BB:220:LYS:HB2	1.59	0.68
22:BC:15:PHE:C	22:BC:16:LEU:HD12	2.14	0.68
24:BE:55:PHE:CD2	24:BE:60:ILE:HD12	2.29	0.68
24:BE:110:LEU:HG	24:BE:171:LEU:CB	2.19	0.68
24:BE:111:GLN:H	24:BE:115:LEU:CG	2.06	0.68
25:BF:106:ARG:HG3	25:BF:202:TRP:HB2	1.75	0.68
26:BG:183:ALA:HA	26:BG:194:SER:CB	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:162:PHE:CD1	29:BJ:166:TYR:HE2	2.09	0.68
31:BL:25:ARG:HD2	31:BL:26:VAL:CG2	2.23	0.68
31:BL:86:GLN:CD	31:BL:87:GLY:H	1.97	0.68
32:BM:88:SER:O	32:BM:94:GLY:HA3	1.94	0.68
33:BN:20:TYR:CB	33:BN:142:PRO:HB2	2.18	0.68
34:BO:79:LYS:HD3	34:BO:79:LYS:N	2.09	0.68
35:BP:51:LYS:HG3	35:BP:52:LYS:N	2.09	0.68
38:BS:47:ARG:CB	38:BS:54:LEU:HD22	2.20	0.68
40:BU:14:LYS:HA	40:BU:14:LYS:HE2	1.76	0.68
40:BU:70:ILE:HD11	40:BU:80:VAL:CG1	2.20	0.68
41:BV:69:LYS:HG2	41:BV:70:PRO:HA	1.75	0.68
43:BW:55:ASN:HA	43:BW:58:ILE:HG22	1.75	0.68
45:BY:28:VAL:C	45:BY:30:LYS:HE2	2.13	0.68
46:BZ:37:GLN:CG	46:BZ:40:ARG:HE	2.05	0.68
1:AA:111:G:C1'	1:AA:389:A:O2'	2.42	0.68
1:AA:239:U:C5	1:AA:240:C:C4	2.82	0.68
1:AA:320:C:C1'	1:AA:1435:G:H2'	2.10	0.68
1:AA:1302:U:P	13:AM:54:LEU:HD23	2.32	0.68
1:AA:1318:A:C1'	17:AS:54:ALA:HB1	2.14	0.68
1:AA:1340:A:C3'	9:AI:141:TYR:CZ	2.76	0.68
1:AA:1499:A:P	1:AA:1521:G:OP1	2.51	0.68
2:AT:132:ILE:HD12	2:AT:162:ARG:CD	2.23	0.68
2:AT:374:PRO:O	2:AT:404:THR:HG23	1.94	0.68
5:AD:69:ARG:CD	5:AD:76:LEU:HD13	2.22	0.68
6:AE:185:LYS:O	6:AE:189:LEU:HD13	1.93	0.68
11:AK:17:ARG:HD2	11:AK:28:HIS:NE2	2.09	0.68
11:AK:18:ILE:HD13	11:AK:27:VAL:HG23	1.76	0.68
13:AM:26:ILE:HG12	13:AM:27:LYS:H	1.59	0.68
17:AS:64:LYS:HD3	17:AS:65:LEU:HD12	1.76	0.68
17:AS:85:ILE:HG12	17:AS:112:LEU:O	1.94	0.68
18:B3:51:G:C4'	45:BY:20:ARG:HB3	2.23	0.68
18:B3:644:G:C6	41:BV:16:ALA:HB3	2.29	0.68
18:B3:710:G:OP1	34:BO:42:ALA:CA	2.41	0.68
18:B3:945:U:H5'	25:BF:128:LEU:HD12	1.74	0.68
18:B3:1226:G:OP1	18:B3:1246:A:N6	2.26	0.68
18:B3:1227:C:O4'	32:BM:132:ARG:HH22	1.09	0.68
18:B3:1469:C:H3'	31:BL:71:LYS:NZ	2.09	0.68
18:B3:2214:A:N9	20:BA:106:LYS:HD2	2.08	0.68
18:B3:2238:A:O2'	18:B3:2239:C:H5'	1.93	0.68
18:B3:2334:C:H1'	29:BJ:114:LYS:H	1.58	0.68
18:B3:2347:C:C2	29:BJ:66:VAL:HG13	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2457:U:H5"	46:BZ:83:THR:HG22	1.75	0.68
18:B3:2581:U:C4'	18:B3:2600:A:C2	2.76	0.68
18:B3:2709:G:C3'	37:BR:9:THR:H	2.07	0.68
20:BA:26:ARG:CG	20:BA:210:MET:HG3	2.22	0.68
20:BA:121:PRO:HD3	20:BA:134:PHE:HE1	1.57	0.68
21:BB:111:ILE:HG23	21:BB:132:TYR:CB	2.24	0.68
21:BB:115:VAL:HA	21:BB:162:ARG:NH1	2.08	0.68
22:BC:221:LYS:HG2	22:BC:331:ARG:CD	2.24	0.68
23:BD:163:GLU:OE1	23:BD:163:GLU:HA	1.92	0.68
23:BD:181:LEU:HB2	23:BD:202:ARG:CA	2.24	0.68
24:BE:55:PHE:HE2	24:BE:158:ARG:HB2	1.57	0.68
25:BF:157:LYS:O	25:BF:160:VAL:HG22	1.93	0.68
29:BJ:13:ILE:CG2	29:BJ:162:PHE:HE2	2.06	0.68
29:BJ:77:GLU:H	29:BJ:80:GLU:HG3	1.58	0.68
31:BL:4:LYS:O	31:BL:7:GLU:HB3	1.94	0.68
32:BM:45:GLU:CG	32:BM:133:LYS:HG2	2.24	0.68
32:BM:45:GLU:HG2	32:BM:133:LYS:O	1.94	0.68
33:BN:17:ARG:HD2	33:BN:93:LEU:HD13	1.75	0.68
34:BO:41:ASP:HB2	34:BO:133:LYS:CG	2.12	0.68
34:BO:89:ASP:HB3	34:BO:110:ALA:N	2.09	0.68
34:BO:130:ARG:HG2	34:BO:131:ALA:C	2.14	0.68
35:BP:24:ASP:HB3	35:BP:27:GLU:H	1.59	0.68
37:BR:95:PHE:CG	38:BS:21:PHE:HB3	2.28	0.68
40:BU:30:LEU:HD22	40:BU:78:PHE:CG	2.29	0.68
1:AA:232:G:H22	16:AQ:129:PRO:CG	2.05	0.68
1:AA:335:C:O2'	1:AA:1434:A:H8	1.77	0.68
1:AA:562:C:C2	12:AL:31:LYS:O	2.23	0.68
1:AA:676:A:N7	11:AK:120:VAL:C	2.33	0.68
1:AA:1081:G:P	6:AE:88:GLN:CD	2.72	0.68
1:AA:1495:U:O3'	18:B3:1962:G:P	2.52	0.68
4:AC:76:PHE:CG	4:AC:83:ILE:HD11	2.28	0.68
6:AE:219:ASN:N	8:AH:129:TYR:CD2	2.28	0.68
10:AJ:69:LYS:CD	14:AN:39:ARG:NH2	2.57	0.68
15:AO:86:ASP:HA	15:AO:89:TYR:HD2	1.58	0.68
18:B3:449:A:OP2	23:BD:45:LYS:CG	2.42	0.68
18:B3:1812:G:N3	18:B3:2732:U:H4'	2.08	0.68
18:B3:2283:G:H5"	28:BI:114:GLY:HA3	1.57	0.68
18:B3:2662:G:N3	18:B3:2814:A:C6	2.62	0.68
20:BA:90:LEU:CD2	20:BA:123:LEU:HB2	2.24	0.68
21:BB:48:VAL:HG22	21:BB:59:LYS:HE2	1.74	0.68
22:BC:10:HIS:CB	22:BC:232:TRP:HD1	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:48:TYR:HB3	22:BC:335:VAL:HA	1.73	0.68
22:BC:254:TRP:HZ3	22:BC:256:PRO:HB2	1.59	0.68
24:BE:23:ARG:HA	24:BE:23:ARG:NH1	2.08	0.68
24:BE:49:TYR:HE2	24:BE:144:VAL:HG22	1.59	0.68
24:BE:116:ASP:CB	24:BE:143:LYS:H	2.05	0.68
24:BE:209:GLU:HG3	24:BE:210:GLU:OE2	1.93	0.68
27:BH:41:ILE:CG2	32:BM:128:LEU:HD11	1.97	0.68
27:BH:48:VAL:HG22	27:BH:53:ILE:CG2	2.24	0.68
28:BI:38:LYS:HD3	28:BI:40:LYS:CG	2.20	0.68
28:BI:47:PRO:CG	28:BI:141:LYS:HA	2.24	0.68
28:BI:48:LEU:HD22	28:BI:139:ARG:CB	2.21	0.68
29:BJ:71:ARG:CD	29:BJ:75:ALA:H	2.07	0.68
31:BL:171:ARG:HA	31:BL:174:ASN:O	1.94	0.68
33:BN:92:GLY:H	33:BN:94:LEU:CD1	2.07	0.68
34:BO:59:ARG:CD	34:BO:85:GLY:HA2	2.24	0.68
34:BO:93:ILE:HD13	34:BO:116:LYS:NZ	2.08	0.68
35:BP:134:LYS:O	35:BP:137:LEU:HB3	1.93	0.68
37:BR:67:PRO:HG2	37:BR:69:LEU:HD23	1.74	0.68
41:BV:80:LEU:HD21	41:BV:86:ARG:HH11	1.59	0.68
46:BZ:74:VAL:HG23	46:BZ:77:LYS:HZ3	1.59	0.68
1:AA:978:A:H2'	17:AS:82:ASN:HB2	1.74	0.68
9:AI:51:LEU:HD11	9:AI:84:ILE:HD13	1.75	0.68
10:AJ:74:GLU:O	14:AN:40:GLN:HB2	1.93	0.68
18:B3:52:A:C1'	18:B3:121:U:O2	2.24	0.68
18:B3:53:C:H5'	18:B3:121:U:C2'	2.24	0.68
18:B3:74:A:H2'	18:B3:75:U:C6	2.28	0.68
18:B3:107:U:O4'	44:BX:56:THR:CA	2.41	0.68
18:B3:629:A:H5'	42:B0:39:ASP:N	2.09	0.68
18:B3:921:G:O3'	41:BV:41:ARG:CD	2.41	0.68
18:B3:949:U:C4'	36:BQ:100:LYS:HA	2.24	0.68
18:B3:1074:G:OP1	42:B0:45:ARG:CG	2.39	0.68
18:B3:1115:U:O2	18:B3:1225:C:C5'	2.41	0.68
18:B3:1446:U:P	39:BT:69:GLU:OE1	2.52	0.68
18:B3:1675:C:C5'	39:BT:118:THR:O	2.32	0.68
18:B3:1855:G:C6	21:BB:150:PRO:HG2	2.28	0.68
18:B3:2165:G:N3	20:BA:207:LYS:NZ	2.41	0.68
18:B3:2460:A:O4'	46:BZ:59:LYS:CB	2.40	0.68
18:B3:2558:G:H1'	18:B3:2799:A:O2'	1.93	0.68
18:B3:2779:G:C1'	27:BH:163:GLN:HB3	2.23	0.68
19:B4:35:C:OP2	24:BE:185:PHE:HZ	1.76	0.68
19:B4:119:C:C5	24:BE:71:GLY:HA2	2.13	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:16:LEU:HD21	20:BA:207:LYS:C	2.15	0.68
22:BC:229:THR:CG2	22:BC:246:ARG:HG3	2.23	0.68
22:BC:359:ASP:OD1	38:BS:14:TYR:CD1	2.46	0.68
23:BD:63:SER:CB	23:BD:73:ILE:H	2.06	0.68
24:BE:103:LEU:HD21	24:BE:226:TYR:CE2	2.29	0.68
25:BF:88:ILE:HG13	25:BF:89:LYS:N	2.08	0.68
27:BH:18:VAL:HA	27:BH:26:LYS:NZ	2.08	0.68
29:BJ:26:GLY:CA	29:BJ:31:ARG:H	2.05	0.68
29:BJ:71:ARG:HD2	29:BJ:74:LYS:CA	2.24	0.68
31:BL:82:LYS:O	46:BZ:48:GLY:O	2.11	0.68
32:BM:107:ILE:HG13	32:BM:108:PRO:N	2.07	0.68
33:BN:93:LEU:HD11	33:BN:147:LEU:HD22	1.74	0.68
34:BO:42:ALA:HB3	34:BO:134:GLY:CA	2.23	0.68
40:BU:50:ILE:CD1	40:BU:101:PRO:HB3	2.24	0.68
40:BU:59:VAL:HG13	40:BU:103:LYS:O	1.94	0.68
40:BU:72:SER:HB2	40:BU:81:GLN:CB	2.25	0.68
42:B0:19:ARG:HG3	42:B0:33:ARG:HH11	1.57	0.68
1:AA:363:A:N6	12:AL:44:GLY:HA3	2.08	0.67
1:AA:567:G:P	6:AE:201:GLY:HA2	2.34	0.67
1:AA:988:G:C4	1:AA:1015:A:N9	2.31	0.67
1:AA:1300:G:O5'	13:AM:30:TYR:CG	2.46	0.67
1:AA:1405:G:C4'	1:AA:1519:A:OP1	2.38	0.67
2:AT:536:LEU:HD22	18:B3:2698:G:C4'	2.23	0.67
5:AD:74:ASN:ND2	5:AD:79:ARG:HB2	2.10	0.67
15:AO:82:GLU:HA	15:AO:85:GLU:CD	2.15	0.67
18:B3:27:U:O2	18:B3:1318:A:C2	2.43	0.67
18:B3:251:C:O2'	31:BL:139:LYS:CE	2.41	0.67
18:B3:264:G:N1	26:BG:137:HIS:HD2	1.92	0.67
18:B3:337:A:H2	18:B3:1314:U:O2'	1.76	0.67
18:B3:524:A:H5'	33:BN:29:ARG:HH21	1.58	0.67
18:B3:1310:U:OP2	23:BD:181:LEU:N	2.27	0.67
18:B3:1566:C:C3'	35:BP:56:VAL:HG13	2.21	0.67
18:B3:1597:A:C4'	35:BP:95:ILE:HG21	2.24	0.67
18:B3:1795:G:N7	35:BP:96:ARG:CZ	2.56	0.67
18:B3:2274:A:O2'	31:BL:79:THR:CA	2.41	0.67
18:B3:2368:A:H3'	24:BE:31:TYR:HE2	1.50	0.67
18:B3:2768:A:H8	22:BC:345:THR:HG23	1.58	0.67
18:B3:2796:U:H1'	27:BH:160:ASP:CG	2.12	0.67
18:B3:2806:C:O2'	22:BC:277:ILE:CD1	2.41	0.67
20:BA:157:PHE:HE2	20:BA:165:LEU:HD22	1.54	0.67
22:BC:19:LYS:HA	22:BC:19:LYS:CE	2.22	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:302:LYS:CG	22:BC:320:PHE:HZ	2.07	0.67
23:BD:11:THR:CG2	23:BD:13:GLU:H	1.99	0.67
29:BJ:87:GLU:HB3	29:BJ:90:LEU:HA	1.76	0.67
31:BL:103:GLU:HG2	31:BL:104:ARG:N	2.07	0.67
33:BN:88:LYS:CE	33:BN:89:PHE:HD2	2.06	0.67
34:BO:65:SER:HB3	34:BO:91:ALA:HB3	1.74	0.67
36:BQ:30:TYR:CA	36:BQ:93:VAL:HG23	2.19	0.67
36:BQ:45:ASN:H	36:BQ:45:ASN:HD22	1.41	0.67
39:BT:71:ALA:O	39:BT:81:LEU:HD11	1.93	0.67
46:BZ:37:GLN:HG2	46:BZ:40:ARG:HE	1.59	0.67
46:BZ:88:LYS:HD3	46:BZ:89:HIS:N	2.09	0.67
1:AA:619:U:H2'	5:AD:129:ILE:HG23	1.75	0.67
1:AA:662:G:H2'	1:AA:663:A:C8	2.30	0.67
1:AA:1074:G:O3'	3:AB:102:THR:HB	1.93	0.67
1:AA:1219:U:O3'	17:AS:59:LYS:CB	2.42	0.67
1:AA:1223:C:OP2	17:AS:122:THR:OG1	2.11	0.67
6:AE:121:ALA:O	6:AE:124:ILE:HG22	1.94	0.67
6:AE:164:VAL:HG22	6:AE:202:LYS:O	1.94	0.67
6:AE:219:ASN:O	8:AH:99:GLY:HA3	1.94	0.67
7:AG:107:LEU:O	7:AG:110:VAL:HG22	1.93	0.67
8:AH:82:ILE:HD13	8:AH:82:ILE:H	1.58	0.67
9:AI:98:GLU:HA	9:AI:106:LYS:N	2.09	0.67
13:AM:50:ALA:HA	13:AM:68:ARG:HD3	1.74	0.67
13:AM:92:ILE:C	13:AM:109:LEU:HD11	2.14	0.67
15:AO:104:ASN:CG	15:AO:107:ASP:HB2	2.13	0.67
16:AQ:70:LEU:HB2	16:AQ:124:VAL:CG1	2.24	0.67
18:B3:162:C:H2'	18:B3:163:U:H5'	1.76	0.67
18:B3:284:C:H1'	18:B3:285:A:OP2	1.94	0.67
18:B3:448:G:N3	23:BD:47:GLN:HB3	2.08	0.67
18:B3:646:G:H4'	23:BD:106:ARG:HH21	1.56	0.67
18:B3:921:G:OP2	41:BV:40:HIS:ND1	2.16	0.67
18:B3:1118:A:C6	18:B3:1226:G:C3'	2.68	0.67
18:B3:1164:U:H5'	30:BK:47:ALA:CB	2.24	0.67
18:B3:1507:C:C5'	39:BT:74:LYS:CD	2.72	0.67
18:B3:1641:A:H2'	18:B3:1642:A:H5'	1.75	0.67
18:B3:1684:A:O2'	18:B3:1685:A:H5"	1.94	0.67
18:B3:1730:G:H5'	18:B3:1731:C:C5	2.30	0.67
18:B3:1741:U:C5'	18:B3:2724:U:OP1	2.42	0.67
18:B3:1806:G:C2	18:B3:2884:G:C1'	2.77	0.67
18:B3:2334:C:H5"	29:BJ:110:ASP:C	2.14	0.67
18:B3:2672:C:O3'	22:BC:31:PHE:CE1	2.41	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2780:C:C5'	27:BH:162:GLN:NE2	2.57	0.67
20:BA:118:LYS:O	20:BA:122:ARG:HG2	1.94	0.67
21:BB:49:HIS:CE1	21:BB:51:SER:H	2.11	0.67
21:BB:108:GLU:O	21:BB:135:ILE:HG23	1.94	0.67
21:BB:162:ARG:HH11	21:BB:163:GLY:HA2	1.60	0.67
23:BD:151:VAL:HG22	23:BD:248:ILE:HD11	1.75	0.67
27:BH:13:PRO:CD	27:BH:79:ILE:HG23	2.24	0.67
27:BH:128:VAL:HG13	27:BH:157:ASN:HD21	1.59	0.67
28:BI:59:GLN:HA	28:BI:128:ARG:HG3	1.76	0.67
29:BJ:162:PHE:O	29:BJ:163:LYS:HG2	1.94	0.67
30:BK:93:LYS:HD2	30:BK:96:LYS:HD3	1.76	0.67
31:BL:53:LYS:HE2	31:BL:58:PHE:HE2	1.55	0.67
35:BP:87:ARG:HB2	35:BP:87:ARG:NH1	2.09	0.67
37:BR:32:ARG:CZ	37:BR:62:VAL:HG12	2.24	0.67
37:BR:86:ARG:HD3	37:BR:86:ARG:N	2.10	0.67
41:BV:80:LEU:CD2	41:BV:86:ARG:HD2	2.23	0.67
43:BW:77:LYS:HD3	43:BW:79:ASN:ND2	2.10	0.67
46:BZ:27:TYR:CE1	46:BZ:68:VAL:HG22	2.29	0.67
46:BZ:79:ARG:CZ	46:BZ:80:ALA:H	2.07	0.67
1:AA:99:C:H4'	1:AA:101:A:C8	2.30	0.67
1:AA:705:U:C2'	11:AK:23:ASN:ND2	2.58	0.67
1:AA:920:U:H5'	1:AA:1080:A:C1'	2.23	0.67
1:AA:1071:C:OP2	6:AE:90:ARG:CZ	2.42	0.67
1:AA:1221:G:O3'	17:AS:96:ILE:HG12	1.88	0.67
1:AA:1308:U:P	13:AM:145:ARG:CD	2.79	0.67
1:AA:1309:G:C8	13:AM:92:ILE:C	2.67	0.67
1:AA:1309:G:H22	13:AM:96:LYS:HB2	1.59	0.67
1:AA:1316:G:C6	17:AS:49:MET:HB3	2.28	0.67
5:AD:164:PHE:CE1	5:AD:183:ALA:HB1	2.29	0.67
5:AD:179:ARG:HD2	5:AD:182:GLU:HG3	1.76	0.67
7:AG:129:ILE:HG13	7:AG:130:GLN:N	2.09	0.67
7:AG:139:THR:OG1	7:AG:170:ALA:HB1	1.94	0.67
13:AM:104:ASN:O	13:AM:108:LYS:HB2	1.93	0.67
18:B3:80:A:C4'	40:BU:73:VAL:HG13	1.95	0.67
18:B3:540:A:H5"	42:B0:18:LYS:H	1.51	0.67
18:B3:681:G:H4'	18:B3:682:A:O5'	1.95	0.67
18:B3:919:U:O2	41:BV:41:ARG:CB	2.42	0.67
18:B3:953:G:C2'	36:BQ:13:TYR:CE1	2.77	0.67
18:B3:1019:C:C4'	36:BQ:61:THR:HG21	2.24	0.67
18:B3:1041:U:C5'	41:BV:18:LYS:HG2	2.12	0.67
18:B3:1154:A:C8	18:B3:1155:G:C1'	2.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1166:G:H4'	30:BK:48:LYS:C	2.08	0.67
18:B3:1173:A:P	30:BK:40:LYS:CE	2.83	0.67
18:B3:1352:A:C5	23:BD:50:ALA:N	2.62	0.67
18:B3:1507:C:H5"	39:BT:74:LYS:CD	2.23	0.67
18:B3:1794:G:O4'	35:BP:96:ARG:HG2	1.94	0.67
18:B3:2121:G:O2'	31:BL:83:PRO:CD	2.43	0.67
18:B3:2125:G:O2'	21:BB:227:GLY:HA2	1.94	0.67
18:B3:2334:C:C2	29:BJ:114:LYS:CA	2.72	0.67
18:B3:2820:A:H5"	22:BC:145:ARG:HD2	1.75	0.67
19:B4:36:C:H5'	24:BE:182:GLY:CA	2.23	0.67
19:B4:118:C:H1'	24:BE:68:THR:C	2.13	0.67
21:BB:28:LEU:HD12	21:BB:29:ARG:NH2	2.08	0.67
21:BB:188:TYR:N	21:BB:190:LEU:HD22	2.09	0.67
22:BC:55:ILE:HD11	22:BC:355:LEU:CB	2.24	0.67
22:BC:92:VAL:HG23	22:BC:101:LEU:HD21	1.74	0.67
22:BC:226:GLU:HG3	22:BC:230:HIS:CE1	2.29	0.67
22:BC:228:VAL:HG23	22:BC:234:THR:CG2	2.23	0.67
23:BD:125:ILE:HG23	23:BD:237:LEU:CD1	2.21	0.67
26:BG:141:LEU:HD12	26:BG:142:ILE:HG23	1.76	0.67
29:BJ:95:PHE:HA	29:BJ:101:PHE:HD2	1.55	0.67
29:BJ:132:ARG:CZ	29:BJ:133:PRO:HD3	2.24	0.67
31:BL:109:ALA:HB3	31:BL:112:LEU:CD2	2.24	0.67
31:BL:113:ARG:HH21	31:BL:154:VAL:CG1	2.04	0.67
32:BM:22:VAL:HA	32:BM:25:GLN:OE1	1.95	0.67
33:BN:17:ARG:HA	33:BN:17:ARG:NE	2.09	0.67
33:BN:60:ARG:HD2	33:BN:61:ARG:CG	2.18	0.67
34:BO:68:ALA:HB2	34:BO:92:ARG:NH1	2.08	0.67
34:BO:79:LYS:HG3	34:BO:138:LEU:HD11	1.77	0.67
34:BO:123:THR:HG23	34:BO:125:ASP:N	2.09	0.67
40:BU:100:HIS:ND1	40:BU:103:LYS:HD2	2.10	0.67
41:BV:11:ARG:NH1	41:BV:11:ARG:HB3	2.09	0.67
41:BV:82:PRO:CD	41:BV:120:VAL:HG22	2.24	0.67
43:BW:10:GLU:OE2	43:BW:69:ARG:HG2	1.93	0.67
44:BX:49:LYS:HD3	44:BX:50:SER:N	2.09	0.67
46:BZ:65:LYS:HE3	46:BZ:65:LYS:N	2.09	0.67
1:AA:25:C:H5'	1:AA:524:G:H4'	1.76	0.67
1:AA:66:G:N2	1:AA:69:G:C8	2.62	0.67
1:AA:382:A:H2'	1:AA:383:A:C8	2.30	0.67
1:AA:989:C:C6	1:AA:1016:A:C2	2.83	0.67
1:AA:1223:C:P	17:AS:122:THR:HG1	2.17	0.67
1:AA:1296:C:C4'	13:AM:52:VAL:O	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:482:LYS:HB2	2:AT:793:PHE:CZ	2.29	0.67
4:AC:27:GLU:HB3	4:AC:64:ARG:NH2	2.09	0.67
5:AD:76:LEU:H	5:AD:76:LEU:HD22	1.58	0.67
9:AI:28:ILE:HB	9:AI:35:ILE:HB	1.76	0.67
16:AQ:69:ILE:HD12	16:AQ:69:ILE:O	1.94	0.67
18:B3:80:A:H5"	40:BU:74:TYR:CZ	2.30	0.67
18:B3:402:U:C4'	31:BL:69:ASN:OD1	2.35	0.67
18:B3:517:U:C6	18:B3:1339:G:H4'	2.23	0.67
18:B3:1362:U:C4'	23:BD:94:ARG:NH1	2.53	0.67
18:B3:1590:A:H61	18:B3:1605:G:H1'	1.58	0.67
18:B3:1690:C:N1	33:BN:129:TYR:HD1	1.81	0.67
18:B3:1800:G:H1'	35:BP:88:LEU:HB3	1.72	0.67
18:B3:1811:A:C2	18:B3:2752:C:O2	2.45	0.67
18:B3:1882:C:OP2	21:BB:199:ARG:HG2	1.94	0.67
18:B3:2250:G:H2'	18:B3:2251:G:C8	2.29	0.67
18:B3:2368:A:H2	24:BE:150:LEU:HD22	1.54	0.67
18:B3:2578:G:N2	18:B3:2800:A:O2'	2.28	0.67
18:B3:2719:A:C2	37:BR:91:VAL:CG1	2.74	0.67
18:B3:2823:G:OP2	22:BC:135:LYS:CB	2.43	0.67
19:B4:46:C:H2'	24:BE:154:THR:OG1	1.95	0.67
19:B4:47:A:OP1	24:BE:151:GLN:CG	2.42	0.67
20:BA:54:LYS:CG	20:BA:156:LYS:CD	2.73	0.67
21:BB:4:ILE:HG23	21:BB:207:ASP:O	1.93	0.67
22:BC:39:PRO:HD3	22:BC:190:LYS:CB	2.25	0.67
23:BD:137:ARG:HG2	23:BD:245:ARG:HH22	1.59	0.67
27:BH:124:ARG:NE	27:BH:124:ARG:HA	2.10	0.67
31:BL:25:ARG:HD2	31:BL:26:VAL:H	1.57	0.67
33:BN:93:LEU:HD12	33:BN:147:LEU:HD22	1.74	0.67
35:BP:99:ARG:NH2	35:BP:100:VAL:HG13	2.10	0.67
40:BU:89:LYS:CD	40:BU:92:GLY:H	2.07	0.67
41:BV:69:LYS:CB	41:BV:70:PRO:HA	2.25	0.67
44:BX:28:LEU:HD13	44:BX:47:VAL:CG2	2.24	0.67
47:B9:75:ALA:HA	47:B9:79:ARG:NH1	2.08	0.67
1:AA:190(D):U:O2'	16:AQ:109:HIS:CD2	2.47	0.67
1:AA:190(E):U:C5	16:AQ:134:VAL:CG2	2.78	0.67
1:AA:319:G:N3	1:AA:1434:A:C6	2.63	0.67
1:AA:597:G:C5'	16:AQ:99:TYR:CG	2.78	0.67
1:AA:622:A:H5"	5:AD:78:ARG:HG2	1.74	0.67
1:AA:1068:G:OP1	1:AA:1388:C:H5'	1.94	0.67
1:AA:1124:G:O2'	10:AJ:56:VAL:CG2	2.41	0.67
1:AA:1329:A:OP1	13:AM:98:TYR:CE2	2.40	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1495:U:H2'	1:AA:1496:C:C6	2.29	0.67
1:AA:1496:C:C2	1:AA:1518:A:C4	2.82	0.67
2:AT:386:VAL:HG12	2:AT:395:TYR:O	1.94	0.67
3:AB:75:ILE:HD12	3:AB:97:ILE:HB	1.76	0.67
3:AB:162:ASN:ND2	3:AB:164:ARG:H	1.93	0.67
6:AE:169:ILE:HG22	6:AE:196:TYR:O	1.93	0.67
7:AG:173:LEU:HD13	7:AG:209:ALA:HB1	1.76	0.67
9:AI:36:THR:HA	9:AI:39:GLU:HG2	1.76	0.67
10:AJ:70:THR:CA	14:AN:42:PHE:N	2.56	0.67
18:B3:67:A:O3'	44:BX:55:LEU:HD22	1.62	0.67
18:B3:107:U:O4'	44:BX:56:THR:HA	1.92	0.67
18:B3:537:G:C4'	42:B0:21:HIS:CE1	2.77	0.67
18:B3:542:A:OP2	42:B0:14:THR:C	2.33	0.67
18:B3:545:G:H8	18:B3:545:G:H5'	1.60	0.67
18:B3:693:A:C3'	41:BV:59:TYR:CZ	2.77	0.67
18:B3:1158:G:O2'	18:B3:1159:G:H5'	1.95	0.67
18:B3:1794:G:C1'	35:BP:96:ARG:HG2	2.24	0.67
18:B3:2093:G:H22	22:BC:257:ALA:HA	0.53	0.67
18:B3:2336:G:P	29:BJ:103:PHE:CE2	2.86	0.67
18:B3:2346:C:C6	29:BJ:64:ILE:HG12	2.30	0.67
19:B4:7:G:P	24:BE:30:TYR:CZ	2.87	0.67
20:BA:41:TYR:CE1	20:BA:163:LEU:HD22	2.29	0.67
20:BA:58:CYS:HA	20:BA:153:SER:CB	2.25	0.67
22:BC:49:LYS:HG3	22:BC:333:ARG:N	2.08	0.67
22:BC:70:GLU:HA	37:BR:88:ARG:CB	1.80	0.67
23:BD:136:ALA:HB3	23:BD:137:ARG:NH2	2.07	0.67
23:BD:196:ARG:NE	23:BD:196:ARG:H	1.92	0.67
25:BF:180:ILE:O	25:BF:184:ILE:HD13	1.95	0.67
28:BI:102:MET:HB3	28:BI:113:GLN:CD	2.14	0.67
29:BJ:71:ARG:HH11	29:BJ:71:ARG:H	1.43	0.67
31:BL:102:GLU:HG2	31:BL:168:LYS:HE3	1.77	0.67
35:BP:102:ARG:HB3	35:BP:102:ARG:CZ	2.24	0.67
41:BV:74:LEU:HD21	41:BV:117:ILE:CG2	2.25	0.67
41:BV:86:ARG:H	41:BV:86:ARG:HE	1.42	0.67
1:AA:675:A:C4	11:AK:120:VAL:HG11	1.95	0.67
1:AA:705:U:O2'	11:AK:23:ASN:CG	2.31	0.67
1:AA:728:A:H61	15:AO:108:LYS:NZ	1.91	0.67
1:AA:1178:G:O6	9:AI:109:THR:O	2.12	0.67
1:AA:1316:G:N2	17:AS:49:MET:HE1	2.10	0.67
1:AA:1330:U:O2	13:AM:93:THR:C	2.33	0.67
1:AA:1504:G:H4'	1:AA:1506:U:C3'	2.23	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:417:ASN:HB2	2:AT:425:ASP:OD2	1.93	0.67
3:AB:66:ILE:CG2	3:AB:70:GLU:HB2	2.20	0.67
4:AC:131:LYS:HB2	4:AC:188:MET:SD	2.34	0.67
4:AC:159:SER:HB2	4:AC:167:ILE:HD11	1.75	0.67
7:AG:79:LYS:HE3	7:AG:164:LEU:HD13	1.75	0.67
7:AG:186:ILE:HG21	7:AG:190:ALA:HB3	1.77	0.67
9:AI:18:VAL:O	9:AI:66:VAL:HG23	1.94	0.67
16:AQ:78:LYS:HA	16:AQ:78:LYS:CE	2.20	0.67
18:B3:619:U:H5"	42:B0:41:VAL:CB	2.24	0.67
18:B3:1117:A:OP1	18:B3:1226:G:O6	2.04	0.67
18:B3:1304:U:H5'	23:BD:193:TYR:CZ	2.29	0.67
18:B3:1809:G:O2'	18:B3:2731:G:C1'	2.43	0.67
18:B3:2093:G:OP1	22:BC:250:CYS:N	2.27	0.67
18:B3:2109:U:O4	41:BV:39:HIS:HD2	1.78	0.67
18:B3:2136:G:N2	18:B3:2238:A:N3	2.40	0.67
18:B3:2336:G:O2'	29:BJ:101:PHE:HA	1.94	0.67
18:B3:2368:A:C3'	24:BE:31:TYR:HE2	2.08	0.67
19:B4:36:C:H6	24:BE:181:PRO:HA	1.58	0.67
21:BB:56:PRO:HD3	47:B9:51:ALA:HB1	1.71	0.67
22:BC:188:SER:O	22:BC:191:VAL:HG22	1.94	0.67
24:BE:83:LEU:HG	24:BE:104:LEU:HD13	1.76	0.67
24:BE:199:ILE:HG21	24:BE:219:PHE:C	2.15	0.67
25:BF:131:PRO:HA	25:BF:228:PHE:CZ	2.29	0.67
27:BH:171:ASP:HB2	27:BH:173:ARG:NH2	2.09	0.67
28:BI:135:ILE:HG21	28:BI:159:PHE:HZ	1.58	0.67
30:BK:30:PRO:O	30:BK:34:PRO:HD2	1.95	0.67
34:BO:29:LEU:HD22	34:BO:125:ASP:OD1	1.95	0.67
34:BO:32:LEU:CD1	34:BO:128:ALA:HB1	2.25	0.67
34:BO:80:THR:CB	34:BO:101:VAL:HG13	2.02	0.67
35:BP:41:ARG:HD3	35:BP:44:VAL:CB	2.23	0.67
39:BT:105:ASP:O	39:BT:126:THR:HG23	1.93	0.67
40:BU:82:VAL:HG12	40:BU:83:ASP:N	2.09	0.67
43:BW:17:LYS:HG3	43:BW:17:LYS:O	1.94	0.67
43:BW:76:ARG:HA	43:BW:82:GLU:CG	2.24	0.67
1:AA:130:A:C8	16:AQ:134:VAL:O	2.48	0.67
1:AA:1070:U:C3'	6:AE:90:ARG:HB2	2.23	0.67
1:AA:1405:G:C8	1:AA:1519:A:O4'	2.43	0.67
2:AT:378:LEU:N	2:AT:471:THR:HG22	2.10	0.67
2:AT:465:LYS:CE	2:AT:511:LEU:CG	2.66	0.67
4:AC:174:VAL:HG12	4:AC:176:MET:HG3	1.75	0.67
18:B3:251:C:H1'	31:BL:139:LYS:NZ	2.07	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:362:G:H2'	18:B3:363:A:H8	1.57	0.67
18:B3:450:C:OP2	23:BD:195:ASN:OD1	2.13	0.67
18:B3:499:G:O3'	33:BN:19:SER:OG	2.11	0.67
18:B3:656:G:H4'	23:BD:30:ARG:CD	2.24	0.67
18:B3:894:A:OP2	23:BD:57:HIS:CG	2.48	0.67
18:B3:948:G:N2	36:BQ:100:LYS:HD2	2.07	0.67
18:B3:1508:C:H5'	39:BT:77:ASP:CB	2.23	0.67
18:B3:1701:A:H5"	18:B3:1702:U:H3'	1.77	0.67
18:B3:2081:A:O2'	32:BM:69:PRO:CA	2.42	0.67
18:B3:2321:A:O2'	18:B3:2322:U:H3'	1.93	0.67
20:BA:36:VAL:HG22	20:BA:204:LEU:HD12	1.76	0.67
22:BC:41:ALA:O	22:BC:180:ILE:HD13	1.95	0.67
23:BD:207:VAL:HG11	23:BD:247:VAL:CG1	2.20	0.67
24:BE:24:ARG:NH1	24:BE:25:GLU:HB2	2.10	0.67
28:BI:48:LEU:HB3	28:BI:140:THR:O	1.94	0.67
29:BJ:16:LEU:HD11	29:BJ:75:ALA:CB	2.24	0.67
32:BM:12:GLY:O	32:BM:123:LEU:HD12	1.94	0.67
32:BM:22:VAL:HG23	32:BM:25:GLN:OE1	1.95	0.67
32:BM:38:GLU:CD	32:BM:39:GLU:H	1.97	0.67
35:BP:117:HIS:O	35:BP:121:VAL:HG23	1.95	0.67
36:BQ:40:VAL:HG22	36:BQ:97:LYS:HB2	1.77	0.67
37:BR:60:ALA:H	37:BR:74:MET:CG	2.07	0.67
37:BR:92:PHE:HD1	38:BS:20:LEU:CG	2.06	0.67
37:BR:104:ASN:HA	37:BR:110:LYS:HE2	1.76	0.67
40:BU:74:TYR:O	40:BU:75:ARG:HG3	1.94	0.67
1:AA:19:C:O2'	1:AA:573:A:N6	2.27	0.67
1:AA:99:C:O4'	1:AA:101:A:N6	2.28	0.67
1:AA:111:G:H2'	1:AA:389:A:H4'	1.75	0.67
1:AA:120:A:C2	1:AA:122:G:C6	2.83	0.67
1:AA:190(D):U:C2	16:AQ:111:SER:CB	2.77	0.67
1:AA:518:C:O2'	12:AL:66:SER:CB	2.43	0.67
1:AA:554:C:C4'	12:AL:45:GLY:N	2.57	0.67
1:AA:1084:G:H1	6:AE:90:ARG:HH12	1.43	0.67
1:AA:1249:C:O2'	9:AI:72:GLY:CA	2.43	0.67
1:AA:1303:C:H41	13:AM:40:ARG:HE	1.42	0.67
1:AA:1320:C:O2'	13:AM:122:HIS:CG	2.48	0.67
1:AA:1505:G:H8	1:AA:1506:U:H6	0.80	0.67
3:AB:104:GLY:HA3	3:AB:108:ASN:OD1	1.93	0.67
3:AB:183:LEU:HG	3:AB:183:LEU:O	1.95	0.67
6:AE:105:ASP:HB3	6:AE:142:TYR:HE1	1.59	0.67
18:B3:79:G:C1'	40:BU:27:ARG:HH12	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:645:U:H1'	23:BD:101:PRO:HD3	1.75	0.67
18:B3:670:G:N2	23:BD:231:SER:HA	2.05	0.67
18:B3:677:C:O2'	23:BD:259:GLN:CB	2.27	0.67
18:B3:773:A:O2'	45:BY:48:TRP:CZ3	2.47	0.67
18:B3:894:A:C4'	23:BD:57:HIS:CD2	2.74	0.67
18:B3:1053:G:OP1	28:BI:15:LYS:HD2	1.95	0.67
18:B3:1167:G:C2'	30:BK:110:ILE:CG2	2.72	0.67
18:B3:1733:A:C8	22:BC:225:PHE:CZ	2.80	0.67
18:B3:2050:G:O2'	33:BN:85:LYS:CD	2.37	0.67
18:B3:2351:C:OP1	29:BJ:138:THR:CG2	2.43	0.67
18:B3:2413:A:C1'	24:BE:174:PRO:HB3	2.23	0.67
18:B3:2709:G:OP1	37:BR:10:LYS:HA	1.94	0.67
18:B3:2796:U:H1'	27:BH:160:ASP:HB2	1.75	0.67
18:B3:2821:C:C6	22:BC:103:THR:HG23	2.29	0.67
21:BB:4:ILE:HG23	21:BB:208:HIS:HD2	1.59	0.67
21:BB:134:ILE:HD12	21:BB:134:ILE:O	1.94	0.67
21:BB:240:ARG:HG2	21:BB:240:ARG:O	1.94	0.67
22:BC:208:PHE:HB2	22:BC:338:ARG:HH22	1.59	0.67
24:BE:116:ASP:CB	24:BE:142:PHE:HA	2.25	0.67
26:BG:151:LEU:H	26:BG:198:ALA:HB1	1.60	0.67
27:BH:132:VAL:HG11	27:BH:157:ASN:HD22	1.58	0.67
28:BI:51:HIS:C	28:BI:52:LEU:HD13	2.14	0.67
28:BI:59:GLN:HB2	28:BI:128:ARG:HG3	1.77	0.67
29:BJ:18:LEU:CD1	29:BJ:68:VAL:HG21	2.25	0.67
29:BJ:36:LEU:HD11	29:BJ:43:THR:HG23	1.77	0.67
31:BL:102:GLU:HG2	31:BL:168:LYS:HZ1	1.57	0.67
39:BT:120:LYS:HA	39:BT:120:LYS:CE	2.22	0.67
40:BU:55:GLU:CB	40:BU:108:LYS:HB3	2.25	0.67
41:BV:74:LEU:HD11	41:BV:137:ILE:HD11	1.75	0.67
1:AA:6:G:H4'	1:AA:299:G:P	2.28	0.67
1:AA:123:C:O3'	1:AA:289:G:N2	2.28	0.67
1:AA:124:G:OP1	1:AA:312:C:H1'	1.95	0.67
1:AA:404:U:C4	5:AD:70:LEU:CD1	2.77	0.67
1:AA:1081:G:OP1	6:AE:88:GLN:NE2	2.27	0.67
2:AT:111:PHE:HB3	2:AT:484:SER:O	1.95	0.67
3:AB:116:GLU:CD	6:AE:133:LEU:HG	2.15	0.67
8:AH:26:ILE:HB	8:AH:62:VAL:HG21	1.74	0.67
11:AK:32:LEU:HD23	11:AK:33:SER:H	1.59	0.67
12:AL:141:GLU:HG3	12:AL:143:PRO:HG2	1.76	0.67
18:B3:107:U:C1'	44:BX:56:THR:HG22	2.25	0.67
18:B3:457:U:OP1	18:B3:1352:A:C4	2.48	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:628:A:O2'	42:B0:38:ILE:HD12	1.94	0.67
18:B3:844:A:H2'	45:BY:2:LYS:HE2	1.77	0.67
18:B3:1056:U:P	28:BI:110:ARG:H	2.01	0.67
18:B3:1182:U:C5'	30:BK:104:ILE:N	2.58	0.67
18:B3:1350:U:C5	23:BD:43:LYS:HD3	2.28	0.67
18:B3:1370:G:C6	33:BN:24:SER:CB	2.69	0.67
18:B3:1666:C:H2'	18:B3:1667:A:H8	1.59	0.67
18:B3:1707:G:H5'	18:B3:2734:G:O3'	1.94	0.67
18:B3:1714:C:H1'	18:B3:2744:G:N2	2.09	0.67
18:B3:1811:A:C6	18:B3:2730:G:N2	2.63	0.67
18:B3:2274:A:H2'	31:BL:80:TYR:HD2	1.60	0.67
18:B3:2304:G:H4'	36:BQ:56:PHE:HD1	1.60	0.67
18:B3:2379:G:OP2	46:BZ:8:LYS:CG	2.43	0.67
18:B3:2560:C:C5'	27:BH:168:ARG:CG	2.67	0.67
18:B3:2565:C:C4	27:BH:171:ASP:CG	2.68	0.67
18:B3:2578:G:H5"	18:B3:2802:C:OP1	1.94	0.67
18:B3:2678:A:H4'	22:BC:13:LEU:HD12	1.77	0.67
18:B3:2712:G:C5'	37:BR:42:SER:CB	2.34	0.67
18:B3:2890:A:N1	38:BS:52:THR:N	2.42	0.67
19:B4:34:A:H2'	24:BE:185:PHE:CE1	2.30	0.67
20:BA:5:THR:HG23	20:BA:8:GLN:H	1.59	0.67
20:BA:7:SER:HA	20:BA:10:ARG:HE	1.60	0.67
20:BA:36:VAL:HB	20:BA:165:LEU:HD21	1.77	0.67
31:BL:76:LYS:N	31:BL:76:LYS:HE2	2.10	0.67
31:BL:163:LEU:HD13	31:BL:164:THR:N	2.09	0.67
33:BN:68:ARG:H	33:BN:79:LYS:CB	2.08	0.67
35:BP:8:ARG:HH12	35:BP:18:LYS:HD3	1.58	0.67
35:BP:103:ARG:HB3	35:BP:104:LEU:HD12	1.76	0.67
36:BQ:43:LYS:HB2	36:BQ:95:HIS:NE2	2.10	0.67
39:BT:74:LYS:HE2	39:BT:78:GLY:HA3	1.76	0.67
39:BT:81:LEU:CB	39:BT:122:TYR:HB2	2.21	0.67
1:AA:131:C:H5"	16:AQ:128:ARG:NH1	1.87	0.67
1:AA:292:G:N2	1:AA:608:A:C2	2.40	0.67
1:AA:292:G:N2	1:AA:609:A:H1'	2.09	0.67
1:AA:521:G:H5'	12:AL:89:ASN:H	1.59	0.67
1:AA:675:A:C4	11:AK:120:VAL:CG1	2.67	0.67
1:AA:979:C:C4'	17:AS:80:MET:HA	2.24	0.67
1:AA:1219:U:O3'	17:AS:58:LYS:CG	1.99	0.67
1:AA:1302:U:H5'	13:AM:44:ASN:N	1.79	0.67
1:AA:1375:A:N1	7:AG:76:TYR:OH	2.28	0.67
4:AC:141:LEU:O	4:AC:142:ARG:HG2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:14:ASN:O	8:AH:17:GLU:HG2	1.94	0.67
9:AI:29:LYS:HD3	9:AI:32:GLY:H	1.58	0.67
10:AJ:70:THR:CB	14:AN:40:GLN:N	2.40	0.67
11:AK:42:THR:CG2	11:AK:52:ASP:HB2	2.23	0.67
11:AK:42:THR:HG21	11:AK:52:ASP:O	1.95	0.67
18:B3:52:A:H5"	45:BY:20:ARG:NH1	2.10	0.67
18:B3:449:A:OP2	23:BD:45:LYS:HG2	1.95	0.67
18:B3:449:A:H3'	23:BD:46:ARG:HD3	1.76	0.67
18:B3:677:C:O2'	23:BD:256:LYS:HG2	1.78	0.67
18:B3:762:C:N4	41:BV:23:LYS:HZ1	1.93	0.67
18:B3:906:C:N4	18:B3:1329:A:N3	2.43	0.67
18:B3:921:G:C1'	41:BV:41:ARG:HB3	2.25	0.67
18:B3:1163:G:H21	30:BK:52:GLU:CG	2.07	0.67
18:B3:1401:G:C5'	43:BW:62:GLY:C	2.59	0.67
18:B3:1673:U:H1'	39:BT:90:ASN:CA	2.25	0.67
18:B3:1708:C:H5	35:BP:81:LYS:CB	2.08	0.67
18:B3:2413:A:C2	24:BE:145:PHE:CE2	2.82	0.67
18:B3:2663:U:N1	18:B3:2816:A:C5	2.53	0.67
19:B4:34:A:H3'	24:BE:185:PHE:CE1	2.29	0.67
19:B4:49:G:P	24:BE:158:ARG:CB	2.83	0.67
22:BC:42:LEU:HD12	22:BC:42:LEU:H	1.60	0.67
22:BC:210:GLN:HE22	22:BC:283:ARG:HH21	1.43	0.67
23:BD:184:LYS:HB3	23:BD:199:THR:HG22	1.77	0.67
25:BF:179:SER:HA	25:BF:183:LEU:HD11	1.77	0.67
26:BG:162:VAL:CA	26:BG:165:LEU:HD23	2.25	0.67
27:BH:23:ARG:HH12	27:BH:39:LYS:HG2	1.60	0.67
28:BI:102:MET:SD	28:BI:113:GLN:HG3	2.35	0.67
31:BL:30:ARG:NE	31:BL:30:ARG:HA	2.10	0.67
34:BO:102:ALA:CB	34:BO:124:LEU:HA	2.25	0.67
37:BR:95:PHE:O	37:BR:96:GLU:HB2	1.94	0.67
40:BU:30:LEU:HD22	40:BU:78:PHE:HB2	1.74	0.67
43:BW:55:ASN:CA	43:BW:58:ILE:HG22	2.25	0.67
46:BZ:37:GLN:CB	46:BZ:40:ARG:HE	2.07	0.67
46:BZ:59:LYS:HE3	46:BZ:59:LYS:H	1.60	0.67
1:AA:1057:G:O2'	1:AA:1058:G:H5'	1.94	0.66
1:AA:1177:G:C8	9:AI:106:LYS:HD2	2.30	0.66
1:AA:1341:U:H6	9:AI:141:TYR:OH	1.78	0.66
1:AA:1345:U:C4	7:AG:76:TYR:HA	2.30	0.66
3:AB:123:THR:HG23	3:AB:124:ASP:N	2.10	0.66
5:AD:157:ASP:OD2	5:AD:160:PRO:HD2	1.95	0.66
7:AG:119:ILE:O	7:AG:123:LEU:HD13	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:105:THR:HG22	8:AH:121:SER:O	1.96	0.66
9:AI:99:GLN:HB3	9:AI:115:LEU:N	2.09	0.66
13:AM:66:LEU:O	13:AM:70:VAL:HG23	1.94	0.66
18:B3:13:G:OP1	33:BN:60:ARG:CD	2.39	0.66
18:B3:164:G:H4'	41:BV:31:ARG:CD	2.25	0.66
18:B3:457:U:OP1	23:BD:50:ALA:O	2.06	0.66
18:B3:1042:U:P	41:BV:18:LYS:HD3	2.36	0.66
18:B3:1335:C:N4	42:B0:98:HIS:NE2	2.16	0.66
18:B3:1672:G:OP1	39:BT:91:LYS:O	2.14	0.66
18:B3:1675:C:H5'	39:BT:87:MET:CE	2.22	0.66
18:B3:1705:C:H5"	35:BP:62:THR:CB	2.09	0.66
18:B3:1814:G:C3'	18:B3:2733:U:C2	2.74	0.66
18:B3:1882:C:P	21:BB:200:GLY:HA3	2.34	0.66
18:B3:2037:C:C5	37:BR:49:LEU:HG	2.30	0.66
18:B3:2334:C:H4'	29:BJ:113:ILE:H	1.60	0.66
18:B3:2435:U:O2'	46:BZ:27:TYR:CZ	2.45	0.66
18:B3:2671:U:O5'	22:BC:178:ALA:HB1	1.94	0.66
19:B4:86:G:OP1	25:BF:218:LYS:CE	2.43	0.66
19:B4:119:C:O4'	24:BE:71:GLY:C	2.34	0.66
20:BA:32:VAL:HG13	20:BA:169:VAL:CG2	2.24	0.66
20:BA:55:LEU:C	20:BA:155:ILE:HG22	2.15	0.66
21:BB:116:GLU:H	21:BB:162:ARG:NE	1.93	0.66
21:BB:179:LEU:CD1	47:B9:22:ARG:NH1	2.56	0.66
25:BF:99:ARG:HA	25:BF:102:LEU:HD22	1.76	0.66
25:BF:164:ASP:CB	25:BF:180:ILE:HG23	2.22	0.66
26:BG:105:LYS:HG3	26:BG:107:ARG:CZ	2.25	0.66
27:BH:16:VAL:HG11	27:BH:82:VAL:HG13	1.78	0.66
29:BJ:141:LYS:C	29:BJ:142:ARG:HD2	2.16	0.66
31:BL:47:ALA:HB3	31:BL:48:ARG:NH1	2.10	0.66
32:BM:84:ARG:NH2	32:BM:87:VAL:HG21	2.10	0.66
32:BM:141:SER:CA	32:BM:144:VAL:HG12	2.25	0.66
33:BN:126:ARG:HB2	33:BN:137:LYS:HB2	1.75	0.66
35:BP:52:LYS:H	35:BP:52:LYS:HE3	1.60	0.66
37:BR:37:ILE:HG23	37:BR:59:MET:HB2	1.77	0.66
37:BR:85:TRP:HB3	37:BR:86:ARG:HD2	1.75	0.66
41:BV:74:LEU:HD21	41:BV:137:ILE:CD1	2.25	0.66
42:B0:103:LYS:O	42:B0:107:VAL:HG13	1.95	0.66
46:BZ:24:VAL:HA	46:BZ:71:LEU:HD13	1.76	0.66
1:AA:65:U:O2'	1:AA:383:A:C6	2.45	0.66
1:AA:364:A:P	12:AL:50:LYS:CE	2.83	0.66
1:AA:597:G:H5"	16:AQ:99:TYR:CD1	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1297:C:C3'	13:AM:56:LYS:HA	2.03	0.66
1:AA:1316:G:C2	17:AS:49:MET:HE1	2.28	0.66
1:AA:1373:G:C4'	7:AG:104:GLY:O	2.43	0.66
2:AT:29:ASP:OD2	18:B3:2693:U:OP2	2.12	0.66
2:AT:138:GLN:HE21	18:B3:2698:G:H5'	1.51	0.66
11:AK:65:ASP:O	11:AK:69:LYS:HG2	1.96	0.66
18:B3:35:U:H4'	23:BD:49:TYR:N	2.01	0.66
18:B3:517:U:H5'	18:B3:1340:G:OP2	1.96	0.66
18:B3:1139:U:H5'	27:BH:62:ARG:CG	2.19	0.66
18:B3:1139:U:C1'	27:BH:62:ARG:HH21	2.06	0.66
18:B3:1287:A:H2	25:BF:106:ARG:HD3	1.59	0.66
18:B3:1471:A:H5"	31:BL:104:ARG:NH1	2.10	0.66
18:B3:1788:U:C2'	18:B3:2881:C:H2'	2.24	0.66
18:B3:2093:G:C1'	22:BC:253:ALA:HB2	2.23	0.66
18:B3:2407:G:N2	46:BZ:19:HIS:CE1	2.63	0.66
18:B3:2414:A:N3	24:BE:145:PHE:HE2	1.92	0.66
18:B3:2581:U:C1'	18:B3:2600:A:C2	2.77	0.66
19:B4:85:A:H4'	25:BF:228:PHE:CZ	2.23	0.66
20:BA:122:ARG:HB2	20:BA:123:LEU:HD22	1.77	0.66
21:BB:113:SER:H	21:BB:164:VAL:HG22	1.60	0.66
22:BC:49:LYS:CG	22:BC:332:LYS:HA	2.24	0.66
22:BC:161:VAL:CG2	22:BC:177:LEU:HD12	2.25	0.66
22:BC:221:LYS:HB3	22:BC:332:LYS:NZ	2.11	0.66
25:BF:146:LEU:HG	25:BF:149:LYS:HE3	1.76	0.66
26:BG:201:GLU:HG3	26:BG:202:VAL:HG23	1.77	0.66
27:BH:114:VAL:CG2	27:BH:125:ASN:HB2	2.24	0.66
27:BH:160:ASP:HA	27:BH:163:GLN:HG3	1.77	0.66
29:BJ:19:ASN:CG	29:BJ:66:VAL:HG13	2.15	0.66
32:BM:95:LYS:HA	32:BM:98:LEU:CD2	2.25	0.66
33:BN:124:GLN:HB2	33:BN:139:GLU:HG2	1.76	0.66
34:BO:130:ARG:HG2	34:BO:131:ALA:N	2.10	0.66
36:BQ:48:ILE:HD13	36:BQ:48:ILE:H	1.60	0.66
36:BQ:72:VAL:HG13	36:BQ:74:VAL:CG2	2.24	0.66
37:BR:93:LEU:HA	38:BS:19:THR:CG2	2.25	0.66
40:BU:85:VAL:HG22	40:BU:86:THR:HG23	1.78	0.66
41:BV:40:HIS:CE1	41:BV:42:ILE:HD11	2.30	0.66
41:BV:106:ALA:HA	41:BV:108:TYR:CE1	2.29	0.66
41:BV:118:PRO:HG3	41:BV:140:ALA:HB3	1.76	0.66
41:BV:121:PRO:CG	41:BV:140:ALA:HB1	2.24	0.66
42:B0:41:VAL:N	42:B0:44:ARG:HH21	1.94	0.66
42:B0:67:SER:OG	42:B0:68:PRO:HD2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:79:VAL:CG2	42:B0:109:LEU:HA	2.25	0.66
43:BW:8:THR:HG22	43:BW:73:ARG:NH2	2.11	0.66
47:B9:35:ARG:CB	47:B9:44:LYS:HD3	2.24	0.66
1:AA:130:A:C2	16:AQ:129:PRO:CG	2.57	0.66
1:AA:358:U:C4'	2:AT:390:ASP:OD1	2.43	0.66
1:AA:1301:U:H5'	13:AM:30:TYR:CB	2.22	0.66
2:AT:189:VAL:CG1	2:AT:200:VAL:HG13	2.25	0.66
2:AT:464:LEU:HD12	2:AT:509:LYS:CB	2.25	0.66
3:AB:104:GLY:HA2	3:AB:107:THR:CG2	2.10	0.66
4:AC:105:LYS:CG	4:AC:172:ARG:HB3	2.25	0.66
7:AG:109:ALA:O	7:AG:112:ILE:HG22	1.95	0.66
9:AI:28:ILE:HG21	9:AI:48:TYR:OH	1.95	0.66
12:AL:128:SER:CB	12:AL:130:VAL:HG23	2.25	0.66
13:AM:23:ASP:HB2	13:AM:31:ALA:CB	2.20	0.66
17:AS:50:THR:HG22	17:AS:51:SER:N	2.10	0.66
18:B3:183:A:C1'	31:BL:158:ARG:NH1	2.58	0.66
18:B3:517:U:C1'	18:B3:1339:G:C1'	2.61	0.66
18:B3:1117:A:OP1	18:B3:1138:G:C6	2.42	0.66
18:B3:1350:U:C6	23:BD:43:LYS:HD3	2.26	0.66
18:B3:1816:C:H5"	18:B3:2747:C:OP1	1.95	0.66
18:B3:1847:A:C4	21:BB:180:LYS:CB	2.70	0.66
18:B3:2458:U:OP1	46:BZ:84:LEU:N	2.29	0.66
18:B3:2626:C:OP1	21:BB:215:HIS:NE2	2.22	0.66
18:B3:2853:U:H5'	22:BC:170:LEU:CD2	2.21	0.66
22:BC:166:ARG:CD	22:BC:167:LYS:H	2.09	0.66
22:BC:184:GLY:HA3	22:BC:190:LYS:HG3	1.76	0.66
22:BC:214:ILE:HG23	22:BC:339:LYS:C	2.16	0.66
22:BC:217:ILE:HD13	22:BC:217:ILE:H	1.60	0.66
24:BE:107:ARG:HG3	24:BE:226:TYR:CZ	2.29	0.66
24:BE:209:GLU:HG3	24:BE:210:GLU:OE1	1.95	0.66
26:BG:123:ASP:H	26:BG:188:LEU:HD13	1.60	0.66
26:BG:163:VAL:CG1	31:BL:5:TYR:CE2	2.75	0.66
27:BH:104:VAL:CG1	27:BH:111:PHE:HA	2.26	0.66
28:BI:103:LEU:HD23	28:BI:118:ALA:HB2	1.77	0.66
29:BJ:83:LEU:HD21	29:BJ:90:LEU:HG	1.77	0.66
30:BK:71:ALA:HB1	30:BK:115:GLN:HA	1.77	0.66
32:BM:79:PHE:HZ	32:BM:103:VAL:HB	1.58	0.66
32:BM:91:THR:HG23	32:BM:95:LYS:NZ	2.08	0.66
32:BM:117:VAL:HG22	32:BM:118:VAL:H	1.60	0.66
34:BO:62:VAL:CG2	34:BO:87:VAL:HG23	2.22	0.66
36:BQ:11:THR:H	36:BQ:12:ARG:HD2	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:32:ARG:CB	37:BR:64:LYS:HB3	2.04	0.66
37:BR:94:TYR:CD1	38:BS:21:PHE:HE2	2.00	0.66
39:BT:66:ILE:HD13	39:BT:67:THR:N	2.10	0.66
40:BU:27:ARG:HB2	40:BU:78:PHE:CE2	2.30	0.66
40:BU:77:LYS:O	40:BU:77:LYS:HG3	1.94	0.66
40:BU:88:GLU:HA	40:BU:89:LYS:HE3	1.77	0.66
40:BU:100:HIS:HB2	40:BU:101:PRO:HA	1.77	0.66
45:BY:27:HIS:H	45:BY:30:LYS:HD3	1.59	0.66
1:AA:12:U:C1'	1:AA:526:C:H5'	2.25	0.66
1:AA:64:G:C4	1:AA:97:G:O6	2.38	0.66
1:AA:124:G:H5"	1:AA:289:G:C2	2.25	0.66
1:AA:1299:A:H4'	13:AM:27:LYS:H	1.59	0.66
1:AA:1345:U:H3	7:AG:76:TYR:CB	2.00	0.66
1:AA:1495:U:O2	1:AA:1517:G:N2	2.22	0.66
3:AB:82:GLN:O	3:AB:85:VAL:HG12	1.94	0.66
3:AB:87:LYS:HG3	3:AB:196:ILE:HD11	1.76	0.66
6:AE:157:THR:CA	8:AH:127:PHE:CZ	2.76	0.66
11:AK:29:VAL:HG23	11:AK:66:VAL:HG11	1.75	0.66
18:B3:891:G:O4'	45:BY:49:GLY:CA	2.44	0.66
18:B3:1118:A:H3'	18:B3:1118:A:H8	1.60	0.66
18:B3:1163:G:H4'	30:BK:54:LYS:CB	2.21	0.66
18:B3:1226:G:OP1	18:B3:1246:A:N1	2.29	0.66
18:B3:1349:G:H4'	23:BD:40:SER:C	2.14	0.66
18:B3:1469:C:H3'	31:BL:71:LYS:HZ1	1.59	0.66
18:B3:1674:C:OP2	39:BT:110:ASN:O	2.13	0.66
18:B3:1674:C:P	39:BT:111:THR:HG23	2.34	0.66
18:B3:2672:C:P	22:BC:179:GLU:O	2.52	0.66
18:B3:2853:U:C4'	22:BC:170:LEU:HD21	2.24	0.66
19:B4:51:A:C2	24:BE:58:LYS:CD	2.76	0.66
20:BA:26:ARG:HD2	20:BA:210:MET:CE	2.12	0.66
21:BB:103:LEU:HD12	21:BB:138:HIS:CE1	2.29	0.66
21:BB:171:GLY:CA	47:B9:67:ALA:HB2	2.17	0.66
22:BC:56:VAL:HG13	22:BC:69:ARG:HG2	1.77	0.66
22:BC:70:GLU:HB2	37:BR:88:ARG:HG3	1.77	0.66
22:BC:115:ARG:HA	22:BC:115:ARG:CZ	2.24	0.66
22:BC:219:VAL:HG12	22:BC:220:THR:O	1.94	0.66
22:BC:359:ASP:CA	38:BS:16:GLY:N	2.52	0.66
24:BE:23:ARG:O	24:BE:24:ARG:HB3	1.95	0.66
25:BF:206:LEU:HD11	25:BF:242:MET:CB	2.26	0.66
27:BH:10:ILE:HG22	27:BH:53:ILE:O	1.94	0.66
27:BH:27:VAL:HG12	27:BH:28:VAL:N	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:105:CYS:H	28:BI:112:GLN:N	1.91	0.66
30:BK:78:SER:O	30:BK:81:VAL:HG12	1.96	0.66
34:BO:23:ASN:O	34:BO:27:LYS:HG2	1.95	0.66
35:BP:21:VAL:N	35:BP:51:LYS:HG2	2.09	0.66
35:BP:92:VAL:HA	35:BP:95:ILE:HD11	1.75	0.66
36:BQ:43:LYS:HA	36:BQ:58:GLN:HG2	1.77	0.66
42:B0:85:LEU:H	42:B0:85:LEU:HD23	1.60	0.66
45:BY:16:THR:HG22	45:BY:17:LEU:N	2.10	0.66
1:AA:405:U:H3'	1:AA:406:G:H5'	1.78	0.66
1:AA:537:G:C4'	12:AL:143:PRO:HG2	2.25	0.66
1:AA:619:U:C1'	5:AD:132:ARG:H	2.09	0.66
1:AA:1068:G:OP1	1:AA:1388:C:C5'	2.44	0.66
1:AA:1176:A:O3'	9:AI:107:ALA:HA	1.74	0.66
1:AA:1302:U:H5	13:AM:47:CYS:HB3	1.59	0.66
1:AA:1309:G:H4'	13:AM:91:ASP:HB3	1.75	0.66
3:AB:70:GLU:CD	3:AB:118:ARG:HG3	2.15	0.66
12:AL:34:LEU:HD22	12:AL:35:GLY:O	1.95	0.66
12:AL:102:VAL:HG23	12:AL:133:LEU:CD1	2.25	0.66
18:B3:520:A:H4'	18:B3:1322:G:OP1	1.94	0.66
18:B3:672:G:C2'	23:BD:214:ILE:HG21	2.24	0.66
18:B3:841:A:H2'	33:BN:131:ALA:HB1	1.76	0.66
18:B3:903:U:C5	41:BV:15:SER:N	2.64	0.66
18:B3:1133:A:H5"	28:BI:162:GLN:CG	2.25	0.66
18:B3:1164:U:C5	30:BK:49:ALA:C	2.61	0.66
18:B3:1347:U:O2'	23:BD:241:ALA:N	2.27	0.66
18:B3:2245:C:C5	18:B3:2246:U:C5	2.83	0.66
18:B3:2334:C:C4'	29:BJ:113:ILE:N	2.57	0.66
18:B3:2345:A:H5'	29:BJ:48:LYS:CE	2.24	0.66
18:B3:2438:G:H8	46:BZ:14:LYS:NZ	1.93	0.66
18:B3:2459:G:OP2	46:BZ:86:ARG:NH2	2.29	0.66
18:B3:2561:C:H4'	18:B3:2777:G:O3'	1.95	0.66
19:B4:50:G:H5'	24:BE:94:ASN:HB2	0.74	0.66
20:BA:56:PRO:N	20:BA:155:ILE:HG23	2.04	0.66
21:BB:53:ARG:HD2	21:BB:54:GLY:N	2.11	0.66
21:BB:78:ASN:OD1	21:BB:165:ILE:HG22	1.95	0.66
21:BB:240:ARG:NE	21:BB:240:ARG:H	1.94	0.66
22:BC:46:LEU:HB3	22:BC:337:LEU:HA	1.77	0.66
22:BC:114:LYS:HB3	22:BC:119:LYS:HB3	1.78	0.66
22:BC:127:LYS:HE2	22:BC:128:ALA:H	1.59	0.66
22:BC:174:LYS:HD3	22:BC:176:HIS:HD2	1.60	0.66
23:BD:92:MET:CE	23:BD:92:MET:HA	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:225:GLU:HG3	23:BD:236:GLN:CG	2.19	0.66
24:BE:15:ARG:O	36:BQ:19:PHE:CE2	2.49	0.66
24:BE:17:GLN:N	36:BQ:19:PHE:HE2	1.93	0.66
24:BE:184:ASP:H	24:BE:187:THR:HG22	1.61	0.66
24:BE:195:LEU:O	24:BE:196:ARG:HG2	1.95	0.66
27:BH:24:ILE:HG12	27:BH:25:VAL:O	1.96	0.66
27:BH:170:LYS:HG2	27:BH:171:ASP:N	2.11	0.66
28:BI:116:ARG:HD2	28:BI:117:GLY:N	2.11	0.66
31:BL:119:TRP:HA	31:BL:129:PHE:HA	1.75	0.66
32:BM:43:SER:HA	32:BM:134:TYR:HB3	1.77	0.66
34:BO:81:VAL:HG11	34:BO:138:LEU:HD22	1.76	0.66
35:BP:60:SER:C	35:BP:63:ARG:HD2	2.13	0.66
36:BQ:42:ILE:HG22	36:BQ:60:LYS:O	1.94	0.66
37:BR:11:PHE:C	37:BR:86:ARG:HG3	2.16	0.66
40:BU:31:LEU:CD2	40:BU:78:PHE:HB3	2.25	0.66
40:BU:89:LYS:HD2	40:BU:89:LYS:C	2.15	0.66
1:AA:66:G:H4'	1:AA:173:U:H1'	1.72	0.66
1:AA:69:G:H2'	1:AA:171:A:N1	2.11	0.66
1:AA:400:C:C3'	5:AD:77:ILE:CD1	2.51	0.66
1:AA:860:A:C2'	8:AH:18:LYS:NZ	2.58	0.66
1:AA:1177:G:C8	9:AI:106:LYS:CD	2.78	0.66
6:AE:168:LEU:HD23	6:AE:197:THR:HG22	1.77	0.66
7:AG:187:LYS:HD2	7:AG:187:LYS:C	2.16	0.66
12:AL:65:ASN:HD22	12:AL:65:ASN:H	1.42	0.66
17:AS:108:ARG:HB2	17:AS:110:GLU:OE2	1.95	0.66
18:B3:518:G:H5'	18:B3:1338:U:O2'	1.91	0.66
18:B3:629:A:C5'	42:B0:38:ILE:HG23	2.25	0.66
18:B3:1106:A:H5'	18:B3:1106:A:C8	2.29	0.66
18:B3:1561:U:H2'	18:B3:1562:C:H6	1.60	0.66
18:B3:1671:U:C4'	39:BT:92:TYR:CE1	2.76	0.66
18:B3:1862:C:P	21:BB:7:GLN:HB2	2.34	0.66
18:B3:2215:A:O3'	20:BA:64:SER:OG	2.13	0.66
18:B3:2350:G:H22	29:BJ:116:ASP:CG	1.98	0.66
18:B3:2581:U:H4'	18:B3:2600:A:N1	2.09	0.66
19:B4:85:A:O4'	25:BF:131:PRO:CB	2.37	0.66
20:BA:121:PRO:HG3	20:BA:134:PHE:CE1	2.31	0.66
21:BB:9:LYS:HA	21:BB:15:PHE:CE1	2.30	0.66
21:BB:210:HIS:CD2	21:BB:218:ILE:HG22	2.30	0.66
22:BC:87:GLY:HA2	22:BC:104:VAL:HG23	1.75	0.66
23:BD:139:HIS:CD2	23:BD:141:VAL:HG13	2.31	0.66
23:BD:174:HIS:HA	23:BD:177:LEU:CD1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:179:SER:HA	25:BF:183:LEU:CD2	2.25	0.66
26:BG:105:LYS:HA	26:BG:105:LYS:HZ3	1.58	0.66
26:BG:112:ALA:H	26:BG:117:GLU:CB	2.07	0.66
26:BG:112:ALA:CB	26:BG:115:VAL:HG12	2.22	0.66
29:BJ:163:LYS:HD2	29:BJ:169:ASP:CA	2.25	0.66
30:BK:42:VAL:O	30:BK:46:ILE:HG12	1.96	0.66
31:BL:50:LEU:HD21	31:BL:118:TYR:HE2	1.58	0.66
31:BL:109:ALA:HB1	31:BL:112:LEU:HD11	1.77	0.66
32:BM:5:VAL:HG11	32:BM:31:LYS:N	2.10	0.66
33:BN:13:SER:CB	33:BN:149:VAL:HG21	2.25	0.66
34:BO:54:LEU:HG	34:BO:55:SER:N	2.11	0.66
34:BO:59:ARG:HD3	34:BO:85:GLY:CA	2.24	0.66
34:BO:60:PRO:HG3	34:BO:86:THR:H	1.58	0.66
34:BO:101:VAL:HG12	34:BO:102:ALA:N	2.11	0.66
37:BR:57:MET:HE3	37:BR:126:TRP:CZ2	2.31	0.66
40:BU:35:LEU:CG	40:BU:39:LEU:HD23	2.25	0.66
40:BU:111:LEU:HB3	40:BU:116:LYS:CG	2.26	0.66
40:BU:112:ASP:HB3	40:BU:113:LYS:HE3	1.77	0.66
43:BW:11:TYR:CZ	43:BW:72:LEU:HD13	2.31	0.66
47:B9:32:GLN:HE21	47:B9:68:TYR:HB2	1.60	0.66
47:B9:56:CYS:HB3	47:B9:61:LYS:H	1.61	0.66
1:AA:17:U:H2'	1:AA:18:C:C6	2.30	0.66
1:AA:293:G:C2'	1:AA:609:A:H2	1.95	0.66
1:AA:538:G:OP1	12:AL:143:PRO:HD2	1.94	0.66
1:AA:1071:C:OP1	6:AE:90:ARG:C	2.32	0.66
1:AA:1150:U:O2	10:AJ:59:PRO:N	2.29	0.66
11:AK:42:THR:HB	11:AK:52:ASP:OD1	1.96	0.66
18:B3:28:G:H4'	18:B3:1317:A:N3	2.10	0.66
18:B3:51:G:O2'	45:BY:19:ASN:O	2.14	0.66
18:B3:106:A:O2'	44:BX:57:VAL:O	2.13	0.66
18:B3:628:A:HO2'	42:B0:38:ILE:HD12	1.61	0.66
18:B3:778:C:C5'	45:BY:9:LYS:HZ3	2.02	0.66
18:B3:844:A:OP1	33:BN:130:ARG:CB	2.24	0.66
18:B3:945:U:O4'	25:BF:125:LEU:HD23	1.96	0.66
18:B3:953:G:H5'	36:BQ:13:TYR:CD2	2.27	0.66
18:B3:1277:C:O2'	34:BO:31:LYS:HD3	1.94	0.66
18:B3:1304:U:C3'	23:BD:194:ARG:HD2	2.25	0.66
18:B3:1743:G:H21	37:BR:18:PRO:HD2	1.60	0.66
18:B3:1800:G:C1'	35:BP:88:LEU:CB	2.63	0.66
18:B3:2036:C:H5"	37:BR:48:ARG:HH21	1.58	0.66
18:B3:2090:G:C5	22:BC:265:ARG:NH2	2.39	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2415:A:C1'	24:BE:39:GLN:CD	2.26	0.66
18:B3:2437:A:C4'	46:BZ:14:LYS:HB2	2.23	0.66
18:B3:2828:G:O5'	22:BC:129:PHE:CD1	2.49	0.66
18:B3:2830:U:C1'	22:BC:126:LYS:HZ2	2.07	0.66
19:B4:5:G:H3'	24:BE:27:LYS:HZ1	1.47	0.66
22:BC:44:SER:HB2	22:BC:180:ILE:CG2	2.24	0.66
23:BD:63:SER:HB2	23:BD:73:ILE:H	1.60	0.66
24:BE:188:GLU:HA	24:BE:198:TYR:HB2	1.77	0.66
26:BG:113:ALA:N	26:BG:119:LYS:HA	2.11	0.66
27:BH:64:HIS:CB	32:BM:127:ARG:HB3	2.26	0.66
27:BH:67:ALA:C	27:BH:68:LEU:HD13	2.16	0.66
27:BH:108:GLY:O	27:BH:111:PHE:HB2	1.96	0.66
29:BJ:25:SER:CB	29:BJ:65:ALA:HB2	2.21	0.66
31:BL:96:SER:HB3	31:BL:98:ARG:HD3	1.77	0.66
32:BM:90:LYS:CE	32:BM:90:LYS:H	2.08	0.66
34:BO:63:SER:HB3	34:BO:90:ASP:OD2	1.95	0.66
35:BP:7:LYS:HZ1	35:BP:8:ARG:HD2	1.60	0.66
37:BR:96:GLU:CD	38:BS:24:GLY:HA2	2.16	0.66
40:BU:55:GLU:HB3	40:BU:108:LYS:HB3	1.76	0.66
40:BU:99:LEU:HD13	40:BU:100:HIS:ND1	2.10	0.66
1:AA:143:A:OP2	1:AA:200:G:H2'	1.95	0.66
1:AA:562:C:C5	12:AL:33:LEU:HD22	2.29	0.66
1:AA:562:C:H1'	12:AL:32:ARG:HD2	1.77	0.66
2:AT:536:LEU:CD1	18:B3:2698:G:HO2'	1.99	0.66
5:AD:99:LEU:CA	5:AD:103:ASP:H	2.06	0.66
6:AE:168:LEU:CD2	6:AE:197:THR:HG22	2.25	0.66
8:AH:81:LYS:HE2	8:AH:86:GLU:CG	2.17	0.66
17:AS:80:MET:HE1	17:AS:83:MET:HB2	1.76	0.66
18:B3:52:A:N3	18:B3:121:U:O2'	2.29	0.66
18:B3:120:A:C4	45:BY:16:THR:HG21	2.30	0.66
18:B3:188:C:O2'	31:BL:187:ARG:HG3	1.96	0.66
18:B3:382:U:O4	31:BL:11:ARG:NH2	2.29	0.66
18:B3:544:G:C2'	18:B3:545:G:H5"	2.26	0.66
18:B3:843:A:C2	33:BN:132:HIS:ND1	2.63	0.66
18:B3:875:A:H1'	21:BB:203:MET:HE1	1.76	0.66
18:B3:1163:G:N2	30:BK:52:GLU:CD	2.50	0.66
18:B3:1184:A:C5'	30:BK:85:LEU:O	2.43	0.66
18:B3:1673:U:P	39:BT:91:LYS:HG3	2.35	0.66
18:B3:2093:G:C3'	22:BC:253:ALA:HB2	2.22	0.66
18:B3:2424:U:C4'	36:BQ:7:TYR:HD2	2.08	0.66
18:B3:2566:A:C5'	27:BH:174:LYS:HZ1	2.08	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2672:C:H5'	22:BC:31:PHE:HZ	1.58	0.66
19:B4:26:C:OP2	24:BE:81:HIS:HE1	1.79	0.66
21:BB:3:VAL:CG1	21:BB:7:GLN:HE21	2.08	0.66
23:BD:229:VAL:O	23:BD:256:LYS:HE3	1.95	0.66
24:BE:90:HIS:CD2	24:BE:91:GLY:H	2.14	0.66
25:BF:105:LEU:HB2	25:BF:107:LEU:CD1	2.26	0.66
28:BI:99:ILE:HD12	28:BI:121:LYS:HD2	1.78	0.66
29:BJ:6:ASN:HB3	29:BJ:7:PRO:HD3	1.78	0.66
29:BJ:141:LYS:HA	29:BJ:144:LYS:CE	2.24	0.66
31:BL:42:THR:CG2	31:BL:43:ARG:HH11	2.08	0.66
31:BL:66:ARG:HB3	31:BL:67:ARG:CZ	2.25	0.66
31:BL:103:GLU:HG2	31:BL:104:ARG:HG2	1.77	0.66
31:BL:146:ARG:HD2	31:BL:146:ARG:H	1.60	0.66
32:BM:43:SER:HB2	32:BM:134:TYR:CE1	2.31	0.66
33:BN:63:ASN:HB2	33:BN:65:SER:O	1.96	0.66
33:BN:130:ARG:NH1	33:BN:130:ARG:HB3	2.11	0.66
34:BO:66:ARG:NH1	34:BO:67:ILE:HG12	2.11	0.66
34:BO:125:ASP:O	34:BO:128:ALA:HB3	1.96	0.66
35:BP:21:VAL:HG23	35:BP:22:TRP:CD2	2.31	0.66
37:BR:39:VAL:HG12	37:BR:58:VAL:HG12	1.76	0.66
37:BR:40:LYS:HD3	37:BR:57:MET:SD	2.35	0.66
40:BU:86:THR:HG23	40:BU:97:ILE:HG12	1.76	0.66
40:BU:111:LEU:HD13	40:BU:111:LEU:N	2.11	0.66
40:BU:122:LYS:HD3	40:BU:122:LYS:H	1.61	0.66
41:BV:71:VAL:HA	41:BV:110:LYS:CD	2.26	0.66
41:BV:74:LEU:CG	41:BV:117:ILE:HG21	2.26	0.66
41:BV:136:LYS:O	41:BV:137:ILE:HG12	1.96	0.66
45:BY:27:HIS:HB2	45:BY:30:LYS:HB3	1.77	0.66
46:BZ:70:ARG:HH21	46:BZ:79:ARG:H	1.44	0.66
1:AA:190(D):U:H2'	16:AQ:109:HIS:O	1.95	0.66
1:AA:203:U:H5"	1:AA:204:U:OP1	1.95	0.66
1:AA:309:G:H21	1:AA:607:A:N6	1.93	0.66
1:AA:538:G:OP1	12:AL:143:PRO:CD	2.39	0.66
1:AA:633:G:C4'	16:AQ:94:PRO:O	2.35	0.66
1:AA:948:C:H3'	13:AM:141:THR:HG23	1.75	0.66
1:AA:1307:U:N3	13:AM:94:ASP:OD1	2.29	0.66
1:AA:1442:G:H2'	1:AA:1442:G:N3	2.11	0.66
1:AA:1504:G:H4'	1:AA:1506:U:H3'	1.77	0.66
2:AT:91:GLN:HE21	2:AT:347:THR:CB	2.09	0.66
10:AJ:88:LYS:HA	10:AJ:88:LYS:HE3	1.77	0.66
16:AQ:74:VAL:HG13	16:AQ:83:ILE:HG13	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:83:MET:CE	17:AS:85:ILE:HG22	2.26	0.66
18:B3:68:U:H4'	44:BX:51:ILE:HD12	1.76	0.66
18:B3:239:C:O2'	31:BL:146:ARG:NH1	2.29	0.66
18:B3:762:C:H41	41:BV:23:LYS:HZ1	1.41	0.66
18:B3:924:G:C6	41:BV:41:ARG:CD	2.78	0.66
18:B3:1351:G:C8	23:BD:108:TRP:CH2	2.80	0.66
18:B3:1369:A:C4'	33:BN:64:SER:H	1.99	0.66
18:B3:1882:C:OP1	21:BB:201:VAL:N	2.28	0.66
18:B3:2169:C:O2'	20:BA:26:ARG:NH1	2.28	0.66
18:B3:2336:G:C4'	29:BJ:101:PHE:CE2	2.64	0.66
18:B3:2435:U:O2'	46:BZ:27:TYR:OH	1.99	0.66
18:B3:2442:G:P	41:BV:61:HIS:NE2	2.67	0.66
18:B3:2596:A:O3'	37:BR:73:VAL:HG12	1.96	0.66
19:B4:35:C:C2	24:BE:203:HIS:HE1	2.14	0.66
21:BB:47:ILE:CD1	47:B9:53:ILE:HG13	2.23	0.66
21:BB:210:HIS:HD2	21:BB:218:ILE:HG22	1.61	0.66
22:BC:365:GLY:HA2	38:BS:35:LYS:HG2	1.72	0.66
24:BE:43:LYS:HD2	24:BE:43:LYS:H	1.60	0.66
25:BF:105:LEU:H	25:BF:105:LEU:HD22	1.61	0.66
26:BG:115:VAL:HG21	26:BG:213:LEU:CB	2.25	0.66
26:BG:150:VAL:CG2	26:BG:176:TYR:HB2	2.24	0.66
26:BG:203:ARG:HE	26:BG:207:GLU:HG2	1.61	0.66
27:BH:17:THR:HG22	27:BH:18:VAL:N	2.11	0.66
28:BI:60:LEU:O	28:BI:126:ALA:HB1	1.96	0.66
28:BI:95:HIS:HB3	28:BI:126:ALA:O	1.96	0.66
29:BJ:132:ARG:HG3	29:BJ:132:ARG:HH11	1.61	0.66
33:BN:111:LEU:HD23	33:BN:150:THR:CG2	2.25	0.66
33:BN:125:ARG:O	33:BN:139:GLU:HB2	1.96	0.66
35:BP:16:VAL:HB	35:BP:20:LYS:HE2	1.78	0.66
36:BQ:43:LYS:HB2	36:BQ:95:HIS:CD2	2.30	0.66
39:BT:104:VAL:HG22	39:BT:129:TYR:CG	2.31	0.66
39:BT:111:THR:HG22	39:BT:112:LEU:N	2.11	0.66
40:BU:35:LEU:CD1	40:BU:47:ALA:HA	2.25	0.66
40:BU:46:LYS:HD2	40:BU:47:ALA:CB	2.25	0.66
41:BV:110:LYS:HE2	41:BV:110:LYS:N	2.05	0.66
42:B0:16:LYS:N	42:B0:16:LYS:HD2	2.09	0.66
44:BX:8:GLU:O	44:BX:12:LYS:HD3	1.96	0.66
47:B9:38:CYS:SG	47:B9:61:LYS:HE2	2.35	0.66
1:AA:55:A:C2	2:AT:68:ILE:N	2.48	0.66
1:AA:105:G:H2'	1:AA:106:C:C6	2.30	0.66
1:AA:318:G:H4'	1:AA:1468:A:H4'	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:356:A:OP1	1:AA:366:C:N3	2.29	0.66
1:AA:371:G:O2'	1:AA:372:C:H5'	1.96	0.66
1:AA:475:G:H2'	1:AA:476:G:H8	1.61	0.66
1:AA:619:U:O3'	5:AD:129:ILE:HD11	1.95	0.66
1:AA:728:A:H61	15:AO:108:LYS:HD2	1.61	0.66
1:AA:1290:G:H5'	7:AG:108:LYS:HZ1	1.61	0.66
1:AA:1495:U:H3	1:AA:1517:G:H21	1.39	0.66
2:AT:749:LYS:HE3	18:B3:2508:C:C4	2.25	0.66
2:AT:785:ARG:HG3	2:AT:785:ARG:HH11	1.61	0.66
6:AE:163:SER:HB2	6:AE:202:LYS:HB2	1.77	0.66
6:AE:192:VAL:CG1	6:AE:195:VAL:HG13	2.26	0.66
9:AI:96:VAL:O	9:AI:101:LYS:HB2	1.95	0.66
11:AK:42:THR:HG22	11:AK:42:THR:O	1.96	0.66
18:B3:179:C:OP1	45:BY:47:ASN:OD1	2.14	0.66
18:B3:285:A:H62	18:B3:367:G:H1'	1.61	0.66
18:B3:960:G:N3	18:B3:960:G:H2'	2.11	0.66
18:B3:1184:A:H1'	30:BK:86:LYS:CG	2.23	0.66
18:B3:1507:C:H5"	39:BT:74:LYS:HD3	1.78	0.66
18:B3:1733:A:C5'	22:BC:226:GLU:HA	2.23	0.66
18:B3:1805:G:N3	18:B3:2883:A:C6	2.63	0.66
18:B3:1814:G:C3'	18:B3:2733:U:N1	2.59	0.66
18:B3:2166:G:C6	20:BA:61:PRO:HG3	2.30	0.66
18:B3:2347:C:C6	29:BJ:66:VAL:HG12	1.52	0.66
18:B3:2379:G:OP2	46:BZ:8:LYS:HG3	1.96	0.66
18:B3:2654:C:H1'	22:BC:259:VAL:HG13	0.75	0.66
18:B3:2734:G:OP2	35:BP:79:LYS:NZ	2.27	0.66
18:B3:2819:C:H2'	22:BC:101:LEU:N	2.08	0.66
18:B3:2819:C:C4	22:BC:100:SER:CB	2.79	0.66
18:B3:2830:U:H1'	22:BC:126:LYS:HZ1	1.60	0.66
21:BB:104:GLY:HA2	21:BB:138:HIS:CE1	2.30	0.66
22:BC:213:MET:CB	22:BC:341:LEU:HD13	2.08	0.66
22:BC:332:LYS:HE2	22:BC:332:LYS:N	2.10	0.66
23:BD:38:PHE:CZ	23:BD:241:ALA:HA	2.30	0.66
23:BD:140:ARG:NE	23:BD:179:LYS:HB2	2.11	0.66
23:BD:177:LEU:N	23:BD:205:LEU:HD11	2.11	0.66
24:BE:169:GLY:HA2	24:BE:226:TYR:OH	1.96	0.66
25:BF:150:ARG:HA	25:BF:150:ARG:NH1	2.11	0.66
26:BG:132:LYS:HD2	26:BG:137:HIS:CB	2.26	0.66
26:BG:189:VAL:HG13	26:BG:191:GLN:CG	2.23	0.66
27:BH:135:GLU:HB2	27:BH:145:VAL:HB	1.78	0.66
28:BI:61:SER:HB3	28:BI:63:GLU:HG2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:102:MET:HA	28:BI:112:GLN:HB3	1.77	0.66
28:BI:103:LEU:HB2	28:BI:118:ALA:N	2.11	0.66
30:BK:20:GLY:CA	30:BK:54:LYS:HE2	2.25	0.66
33:BN:55:ARG:HD2	33:BN:72:GLY:O	1.95	0.66
33:BN:114:SER:HB3	33:BN:148:VAL:HG11	1.77	0.66
37:BR:15:LEU:HA	37:BR:53:SER:HB2	1.77	0.66
37:BR:19:VAL:HB	37:BR:50:PRO:HG3	1.78	0.66
42:B0:101:SER:HB2	42:B0:105:ARG:CG	2.26	0.66
42:B0:105:ARG:HA	42:B0:105:ARG:NH1	2.11	0.66
1:AA:239:U:H5	1:AA:240:C:C5	2.14	0.65
1:AA:947:G:C3'	13:AM:143:ARG:NE	2.57	0.65
1:AA:1086:U:H5'	1:AA:1389:C:H5"	1.76	0.65
1:AA:1179:A:OP2	9:AI:116:LEU:CD2	2.43	0.65
1:AA:1298:C:OP1	13:AM:56:LYS:C	2.33	0.65
1:AA:1308:U:H2'	13:AM:92:ILE:HG23	1.78	0.65
1:AA:1328:C:C2'	13:AM:96:LYS:CB	2.74	0.65
1:AA:1505:G:C8	1:AA:1506:U:C2'	2.77	0.65
1:AA:1505:G:N7	1:AA:1506:U:OP1	2.15	0.65
2:AT:29:ASP:OD1	18:B3:2693:U:P	2.52	0.65
3:AB:169:ILE:HG13	3:AB:170:GLY:N	2.11	0.65
7:AG:112:ILE:HG13	7:AG:190:ALA:CA	2.25	0.65
9:AI:45:PHE:CZ	9:AI:47:VAL:HG21	2.30	0.65
11:AK:40:ARG:CB	11:AK:66:VAL:HG23	2.26	0.65
11:AK:83:ARG:HE	11:AK:117:VAL:HG13	1.61	0.65
18:B3:27:U:O2	18:B3:1318:A:C5	2.44	0.65
18:B3:121:U:H5	45:BY:17:LEU:HD13	1.61	0.65
18:B3:285:A:N6	18:B3:367:G:H1'	2.11	0.65
18:B3:778:C:C5'	45:BY:9:LYS:HZ1	1.94	0.65
18:B3:882:A:C5'	45:BY:2:LYS:N	2.60	0.65
18:B3:894:A:H2	23:BD:98:MET:HE2	1.61	0.65
18:B3:1054:G:C6	28:BI:111:LEU:HD11	2.31	0.65
18:B3:1067:A:P	25:BF:96:PRO:CG	2.78	0.65
18:B3:1613:C:H2'	18:B3:1614:G:O4'	1.96	0.65
18:B3:1706:G:H8	18:B3:2736:U:OP1	1.78	0.65
18:B3:1875:A:O2'	21:BB:151:SER:CA	2.44	0.65
18:B3:2066:C:OP2	22:BC:255:HIS:CB	2.44	0.65
18:B3:2101:A:H8	23:BD:70:VAL:O	1.79	0.65
18:B3:2552:C:O2'	18:B3:2553:A:C2'	2.43	0.65
18:B3:2565:C:C2	27:BH:170:LYS:O	2.49	0.65
18:B3:2738:G:H3'	35:BP:60:SER:HA	1.77	0.65
18:B3:2762:C:O2'	37:BR:83:LYS:HD2	1.93	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2821:C:OP1	22:BC:141:ALA:CB	2.44	0.65
20:BA:4:ILE:HG23	20:BA:5:THR:N	2.11	0.65
20:BA:98:LYS:HE2	20:BA:102:LYS:NZ	2.11	0.65
20:BA:114:GLU:HG3	20:BA:138:VAL:O	1.96	0.65
21:BB:29:ARG:HB3	21:BB:29:ARG:NH1	2.11	0.65
21:BB:113:SER:CB	21:BB:168:ILE:HD11	2.25	0.65
22:BC:40:VAL:HG21	22:BC:207:VAL:HG11	1.78	0.65
22:BC:112:GLU:HG2	22:BC:173:LYS:CA	2.26	0.65
24:BE:184:ASP:CA	24:BE:187:THR:HG23	2.22	0.65
24:BE:208:MET:HE2	24:BE:210:GLU:HA	1.78	0.65
26:BG:112:ALA:CB	26:BG:121:LYS:HG3	2.26	0.65
26:BG:151:LEU:HD21	26:BG:185:LEU:CD2	2.25	0.65
26:BG:203:ARG:CD	26:BG:210:LEU:HD12	2.13	0.65
31:BL:138:HIS:HB3	31:BL:141:ILE:HG21	1.78	0.65
32:BM:43:SER:HB2	32:BM:134:TYR:CD1	2.30	0.65
33:BN:17:ARG:NE	33:BN:93:LEU:HB2	2.10	0.65
35:BP:3:LEU:O	35:BP:6:GLN:HG3	1.96	0.65
36:BQ:75:ILE:HG21	36:BQ:88:ARG:O	1.95	0.65
40:BU:57:LEU:CD1	40:BU:105:VAL:HB	2.26	0.65
40:BU:100:HIS:CG	40:BU:103:LYS:HD2	2.31	0.65
41:BV:97:THR:O	41:BV:125:LYS:HE2	1.96	0.65
42:B0:36:LYS:NZ	42:B0:37:GLY:H	1.94	0.65
42:B0:100:ILE:HG13	42:B0:106:VAL:HG21	1.77	0.65
44:BX:8:GLU:HB3	44:BX:12:LYS:HE3	1.77	0.65
46:BZ:66:LYS:HZ3	46:BZ:86:ARG:HD2	1.61	0.65
1:AA:55:A:C2	2:AT:67:GLY:O	2.41	0.65
1:AA:130:A:P	16:AQ:136:PHE:C	2.67	0.65
1:AA:551:U:O2	12:AL:48:HIS:CE1	2.50	0.65
1:AA:748:C:H1'	1:AA:749:C:C5	2.30	0.65
1:AA:919:A:C1'	1:AA:1079:G:H21	2.09	0.65
1:AA:1222:G:P	17:AS:81:ARG:HH12	2.19	0.65
1:AA:1249:C:O2'	9:AI:72:GLY:HA2	1.96	0.65
1:AA:1443:G:H5"	1:AA:1446:A:C5'	2.17	0.65
5:AD:109:LEU:O	5:AD:109:LEU:HD23	1.95	0.65
6:AE:140:ARG:HD2	6:AE:151:HIS:HA	1.77	0.65
8:AH:33:ILE:HG23	8:AH:60:ILE:HD11	1.77	0.65
10:AJ:32:LYS:HA	10:AJ:32:LYS:CE	2.23	0.65
10:AJ:70:THR:HB	14:AN:42:PHE:N	2.09	0.65
12:AL:101:GLU:H	12:AL:132:LEU:CD2	2.09	0.65
14:AN:22:VAL:HG13	14:AN:23:CYS:N	2.11	0.65
18:B3:95:A:C5'	18:B3:96:A:H3'	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:166:A:H62	41:BV:28:PRO:C	2.00	0.65
18:B3:375:G:N2	18:B3:411:A:P	2.69	0.65
18:B3:905:C:C4	18:B3:1330:A:C4	2.84	0.65
18:B3:905:C:C6	41:BV:11:ARG:NH1	2.63	0.65
18:B3:944:G:C1'	25:BF:100:LYS:CE	2.73	0.65
18:B3:1018:A:O2'	36:BQ:60:LYS:HE2	1.63	0.65
18:B3:1182:U:O4'	30:BK:105:GLN:CA	2.41	0.65
18:B3:1287:A:H2	25:BF:106:ARG:NH1	1.50	0.65
18:B3:1381:A:N7	43:BW:24:PHE:O	2.30	0.65
18:B3:2283:G:C2	28:BI:105:CYS:HA	2.30	0.65
18:B3:2351:C:OP1	29:BJ:138:THR:HG21	1.96	0.65
18:B3:2414:A:N3	24:BE:145:PHE:CE2	2.64	0.65
18:B3:2615:U:H5'	22:BC:240:LYS:HA	1.77	0.65
21:BB:114:ASN:OD1	21:BB:123:GLY:HA3	1.96	0.65
22:BC:9:ARG:NE	22:BC:9:ARG:H	1.94	0.65
22:BC:28:VAL:CG1	22:BC:339:LYS:HD3	2.15	0.65
25:BF:157:LYS:HD3	25:BF:159:ARG:HH12	1.61	0.65
29:BJ:34:LYS:O	29:BJ:37:GLU:HB2	1.95	0.65
31:BL:41:PRO:CD	31:BL:48:ARG:HH22	2.08	0.65
31:BL:52:TYR:CE2	31:BL:60:ILE:HG23	2.31	0.65
31:BL:67:ARG:NH1	31:BL:67:ARG:H	1.95	0.65
32:BM:33:VAL:HA	32:BM:102:LYS:O	1.97	0.65
32:BM:123:LEU:H	32:BM:123:LEU:CD1	2.07	0.65
32:BM:123:LEU:HD22	32:BM:124:ARG:H	1.59	0.65
33:BN:41:THR:OG1	33:BN:109:THR:HA	1.96	0.65
33:BN:47:LEU:O	33:BN:50:VAL:HB	1.96	0.65
33:BN:117:GLN:CG	33:BN:145:ILE:HB	2.18	0.65
35:BP:61:ARG:NE	35:BP:61:ARG:HA	2.10	0.65
37:BR:72:LYS:O	37:BR:73:VAL:HG13	1.96	0.65
37:BR:86:ARG:O	37:BR:92:PHE:HB2	1.97	0.65
40:BU:31:LEU:HD11	40:BU:78:PHE:C	2.16	0.65
1:AA:401:C:C2'	1:AA:621:A:N3	2.58	0.65
1:AA:989:C:C5	1:AA:1016:A:C2	2.84	0.65
1:AA:1227:A:OP1	17:AS:125:PRO:CG	2.44	0.65
1:AA:1309:G:N7	13:AM:92:ILE:HG22	0.99	0.65
1:AA:1320:C:C2	17:AS:118:GLU:N	2.64	0.65
1:AA:1497:G:C8	1:AA:1517:G:C6	2.85	0.65
1:AA:1522:U:O2'	1:AA:1523:G:H5'	1.95	0.65
3:AB:67:PRO:HB2	3:AB:183:LEU:CD2	2.26	0.65
4:AC:102:GLU:HG2	4:AC:172:ARG:CD	2.26	0.65
4:AC:141:LEU:HD23	4:AC:142:ARG:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:219:ASN:C	8:AH:99:GLY:CA	2.63	0.65
9:AI:50:PRO:CB	9:AI:115:LEU:HD13	2.27	0.65
10:AJ:84:MET:HA	10:AJ:84:MET:HE2	1.78	0.65
18:B3:124:C:H5	39:BT:88:LYS:HG3	1.59	0.65
18:B3:1235:G:N7	32:BM:68:GLY:O	2.29	0.65
18:B3:1352:A:H5'	23:BD:102:THR:HG22	1.66	0.65
18:B3:1529:G:H5"	21:BB:69:ARG:HD2	1.77	0.65
18:B3:1794:G:H5'	35:BP:97:ARG:CG	2.19	0.65
18:B3:2335:C:C5	29:BJ:117:PRO:O	2.49	0.65
18:B3:2368:A:C3'	24:BE:31:TYR:CE2	2.79	0.65
18:B3:2457:U:H4'	46:BZ:82:LEU:C	2.17	0.65
18:B3:2655:U:HO2'	22:BC:265:ARG:HB3	1.59	0.65
18:B3:2768:A:C8	22:BC:345:THR:HG23	2.31	0.65
19:B4:30:C:C2	24:BE:57:ASN:CB	2.69	0.65
22:BC:21:ALA:HB2	22:BC:272:HIS:O	1.96	0.65
23:BD:140:ARG:NH2	23:BD:178:LEU:HD22	2.12	0.65
27:BH:112:ILE:HG22	27:BH:125:ASN:OD1	1.96	0.65
31:BL:42:THR:HG21	31:BL:120:VAL:HG11	1.77	0.65
36:BQ:64:VAL:HB	36:BQ:74:VAL:HG22	1.78	0.65
40:BU:72:SER:HB2	40:BU:81:GLN:HB3	1.79	0.65
40:BU:86:THR:CG2	40:BU:97:ILE:HG23	2.25	0.65
43:BW:8:THR:HG22	43:BW:73:ARG:CZ	2.26	0.65
1:AA:190(F):G:OP2	16:AQ:109:HIS:NE2	2.29	0.65
1:AA:320:C:O2	1:AA:1435:G:C4'	2.40	0.65
1:AA:524:G:H2'	1:AA:525:C:C6	2.31	0.65
1:AA:537:G:C4'	12:AL:143:PRO:CG	2.74	0.65
1:AA:954:G:H21	1:AA:1227:A:H62	1.43	0.65
1:AA:1309:G:H4'	13:AM:112:ASP:CB	2.24	0.65
1:AA:1328:C:H1'	13:AM:96:LYS:HD2	1.77	0.65
6:AE:100:VAL:HG13	6:AE:112:LEU:HD21	1.77	0.65
9:AI:50:PRO:HB3	9:AI:115:LEU:HD13	1.77	0.65
9:AI:89:VAL:HG23	9:AI:96:VAL:CB	2.21	0.65
9:AI:99:GLN:H	9:AI:106:LYS:N	1.95	0.65
10:AJ:28:SER:HB3	10:AJ:34:LEU:CD2	2.26	0.65
10:AJ:69:LYS:CG	14:AN:39:ARG:NH1	2.60	0.65
13:AM:91:ASP:OD1	13:AM:110:ARG:C	2.35	0.65
17:AS:56:PHE:CB	17:AS:80:MET:HG3	2.25	0.65
18:B3:27:U:O2	18:B3:1319:G:N3	2.28	0.65
18:B3:71:G:O2'	44:BX:49:LYS:HA	1.95	0.65
18:B3:265:U:H5'	31:BL:54:ALA:O	1.97	0.65
18:B3:538:C:OP2	42:B0:20:HIS:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:697:G:C5'	41:BV:132:LEU:CD2	2.60	0.65
18:B3:764:C:O4'	23:BD:86:GLN:HG2	1.95	0.65
18:B3:1184:A:OP1	30:BK:102:GLY:HA2	1.96	0.65
18:B3:1851:G:H5"	21:BB:244:LEU:C	2.17	0.65
18:B3:2614:C:H1'	22:BC:240:LYS:HD3	0.72	0.65
18:B3:2704:C:O2'	27:BH:122:LYS:HE2	1.95	0.65
18:B3:2709:G:C6	37:BR:7:GLN:NE2	2.63	0.65
18:B3:2720:C:H5"	38:BS:33:ASN:HD21	0.57	0.65
19:B4:98:C:O2'	25:BF:221:HIS:HB2	1.96	0.65
20:BA:23:THR:HG23	20:BA:25:LYS:H	1.60	0.65
21:BB:116:GLU:OE2	21:BB:161:ALA:HA	1.96	0.65
22:BC:302:LYS:HE3	22:BC:305:THR:HB	1.78	0.65
24:BE:75:LEU:HD11	24:BE:109:THR:HG23	1.78	0.65
27:BH:107:ASP:HB3	27:BH:128:VAL:N	2.12	0.65
31:BL:65:VAL:HG23	31:BL:66:ARG:O	1.96	0.65
34:BO:63:SER:HA	34:BO:88:THR:HG23	1.77	0.65
35:BP:83:THR:HG23	35:BP:85:GLU:H	1.61	0.65
36:BQ:34:TYR:CE1	36:BQ:97:LYS:HD3	2.30	0.65
37:BR:35:TYR:CZ	37:BR:61:THR:HB	2.31	0.65
43:BW:6:VAL:HA	43:BW:74:ILE:O	1.96	0.65
45:BY:41:ALA:O	45:BY:42:LYS:HG3	1.97	0.65
46:BZ:20:THR:HG22	46:BZ:21:GLN:N	2.12	0.65
1:AA:190(C):C:H42	16:AQ:111:SER:HB2	1.60	0.65
1:AA:287:U:O2'	1:AA:288:A:H5'	1.96	0.65
1:AA:335:C:O5'	1:AA:1434:A:C4'	2.42	0.65
1:AA:393:A:O2'	1:AA:394:G:H5'	1.95	0.65
1:AA:1177:G:C5'	9:AI:106:LYS:CA	2.50	0.65
1:AA:1373:G:O4'	7:AG:104:GLY:O	2.14	0.65
1:AA:1395:C:O2'	1:AA:1397:C:P	2.54	0.65
2:AT:464:LEU:CD1	2:AT:510:ARG:HG3	2.27	0.65
3:AB:73:VAL:HG23	3:AB:117:PRO:CB	2.24	0.65
6:AE:219:ASN:C	8:AH:99:GLY:HA3	2.17	0.65
18:B3:449:A:C2'	23:BD:46:ARG:CZ	2.70	0.65
18:B3:1130:U:H2'	18:B3:1131:G:O4'	1.96	0.65
18:B3:1164:U:C5'	30:BK:47:ALA:HB1	2.26	0.65
18:B3:1173:A:P	30:BK:40:LYS:HE2	2.36	0.65
18:B3:2407:G:N2	46:BZ:10:TYR:OH	2.28	0.65
18:B3:2705:U:H4'	27:BH:122:LYS:HZ3	0.75	0.65
18:B3:2705:U:H5"	27:BH:122:LYS:HZ1	1.60	0.65
20:BA:6:SER:O	20:BA:9:VAL:HG22	1.96	0.65
21:BB:172:GLY:H	47:B9:67:ALA:CB	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:15:PHE:HD2	22:BC:18:ARG:CD	2.09	0.65
23:BD:30:ARG:O	23:BD:34:VAL:HG13	1.97	0.65
24:BE:61:ILE:HA	24:BE:79:TYR:HB3	1.78	0.65
24:BE:103:LEU:HB2	24:BE:165:GLY:HA3	1.78	0.65
27:BH:8:GLN:HG3	27:BH:9:GLN:N	2.12	0.65
27:BH:20:ILE:HB	27:BH:25:VAL:HA	1.78	0.65
28:BI:38:LYS:HD2	28:BI:39:LYS:O	1.97	0.65
29:BJ:20:ILE:HG13	29:BJ:21:SER:N	2.12	0.65
30:BK:113:ALA:CB	30:BK:128:VAL:HG23	2.25	0.65
31:BL:42:THR:HG21	31:BL:120:VAL:HG13	1.79	0.65
32:BM:139:LYS:HD3	32:BM:139:LYS:O	1.97	0.65
35:BP:41:ARG:HH12	35:BP:49:ILE:HG21	1.60	0.65
41:BV:97:THR:OG1	41:BV:124:VAL:HA	1.96	0.65
42:B0:105:ARG:H	42:B0:107:VAL:HG22	1.62	0.65
1:AA:668:G:H1'	15:AO:104:ASN:HD21	0.96	0.65
1:AA:989:C:O2	1:AA:1015:A:H2'	1.97	0.65
1:AA:1278:U:H5"	1:AA:1279:A:H5'	1.77	0.65
1:AA:1298:C:H3'	13:AM:57:ARG:HH22	1.49	0.65
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.30	0.65
1:AA:1487:G:O2'	1:AA:1488:G:H5'	1.96	0.65
2:AT:108:HIS:CE1	2:AT:540:ILE:HG21	2.32	0.65
2:AT:500:ASP:HB3	2:AT:552:VAL:HG11	1.79	0.65
9:AI:99:GLN:N	9:AI:105:LYS:N	2.44	0.65
10:AJ:61:LYS:HD3	10:AJ:61:LYS:N	2.09	0.65
10:AJ:71:PRO:HD2	14:AN:42:PHE:CB	2.22	0.65
18:B3:53:C:C5'	18:B3:121:U:H2'	2.26	0.65
18:B3:81:G:H5'	40:BU:74:TYR:O	1.97	0.65
18:B3:269:G:OP1	18:B3:274:G:H4'	1.97	0.65
18:B3:449:A:H61	18:B3:1349:G:C4'	2.08	0.65
18:B3:517:U:H4'	18:B3:1339:G:C8	2.31	0.65
18:B3:601:G:O2'	18:B3:602:A:H5'	1.96	0.65
18:B3:1154:A:OP2	18:B3:1156:C:H5	1.78	0.65
18:B3:1245:C:N4	32:BM:124:ARG:CD	2.59	0.65
18:B3:1943:C:H5'	21:BB:218:ILE:HD11	1.66	0.65
18:B3:2283:G:C8	28:BI:106:ALA:CB	2.80	0.65
18:B3:2468:A:C2	46:BZ:54:LYS:C	2.70	0.65
18:B3:2713:G:C5'	37:BR:44:SER:C	2.65	0.65
18:B3:2763:G:P	37:BR:14:SER:CB	2.83	0.65
19:B4:118:C:O3'	24:BE:68:THR:CG2	2.32	0.65
20:BA:67:ILE:HD12	20:BA:144:LEU:CD2	2.26	0.65
22:BC:15:PHE:CD2	22:BC:18:ARG:HD2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:231:ARG:HB3	22:BC:232:TRP:CZ3	2.31	0.65
22:BC:295:THR:HG22	22:BC:296:SER:N	2.10	0.65
23:BD:178:LEU:O	23:BD:178:LEU:HD23	1.97	0.65
25:BF:91:ILE:HG13	25:BF:99:ARG:CG	2.25	0.65
25:BF:177:ILE:HG22	25:BF:183:LEU:CD2	2.25	0.65
29:BJ:48:LYS:HG2	29:BJ:49:ALA:H	1.61	0.65
31:BL:48:ARG:H	31:BL:52:TYR:HB3	1.62	0.65
31:BL:99:ALA:O	31:BL:102:GLU:HG3	1.97	0.65
31:BL:146:ARG:N	31:BL:146:ARG:HH11	1.94	0.65
33:BN:43:ALA:CA	33:BN:46:TYR:HB2	2.15	0.65
34:BO:40:THR:OG1	34:BO:132:PRO:HB2	1.97	0.65
34:BO:101:VAL:HG12	34:BO:102:ALA:H	1.61	0.65
40:BU:13:ARG:C	40:BU:17:LYS:HG2	2.17	0.65
40:BU:35:LEU:HD22	40:BU:40:ARG:HA	1.78	0.65
40:BU:45:ILE:HD13	40:BU:46:LYS:N	2.10	0.65
40:BU:53:ASP:CB	40:BU:110:HIS:HB2	2.26	0.65
41:BV:10:HIS:HA	41:BV:13:HIS:CE1	2.32	0.65
42:B0:41:VAL:HA	42:B0:44:ARG:NH2	2.12	0.65
1:AA:6:G:OP2	5:AD:88:GLU:HA	1.97	0.65
1:AA:597:G:H5'	16:AQ:99:TYR:CG	2.32	0.65
1:AA:616:G:H3'	5:AD:146:PHE:CZ	2.31	0.65
1:AA:621:A:OP2	5:AD:143:ILE:CG2	2.45	0.65
1:AA:1014:A:O2'	1:AA:1218:C:O2	2.14	0.65
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.32	0.65
4:AC:181:LEU:HD12	4:AC:181:LEU:N	2.12	0.65
5:AD:113:VAL:HG23	5:AD:125:ALA:CB	2.18	0.65
6:AE:113:GLY:CA	6:AE:130:ILE:HG23	2.26	0.65
9:AI:89:VAL:HG21	9:AI:101:LYS:HG2	1.79	0.65
13:AM:117:LYS:HB3	13:AM:128:PHE:CE1	2.25	0.65
18:B3:289:G:O2'	18:B3:290:C:H5'	1.97	0.65
18:B3:452:G:H8	23:BD:193:TYR:CD2	2.15	0.65
18:B3:1118:A:H3'	18:B3:1118:A:C8	2.32	0.65
18:B3:1133:A:C6	18:B3:2501:G:C1'	2.79	0.65
18:B3:1385:G:P	43:BW:36:LYS:HE2	2.37	0.65
18:B3:1667:A:H2'	18:B3:1668:U:C6	2.31	0.65
18:B3:1794:G:P	35:BP:97:ARG:CD	2.84	0.65
18:B3:1814:G:H3'	18:B3:2733:U:N1	2.12	0.65
18:B3:1814:G:C8	18:B3:2731:G:C2	2.80	0.65
18:B3:2334:C:C4'	29:BJ:113:ILE:H	2.09	0.65
18:B3:2345:A:H5'	29:BJ:48:LYS:HE3	1.78	0.65
18:B3:2401:A:C1'	36:BQ:7:TYR:HH	2.09	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2408:A:C4	46:BZ:19:HIS:NE2	2.64	0.65
18:B3:2806:C:C5'	22:BC:343:THR:CB	2.75	0.65
18:B3:2808:U:C5'	22:BC:274:ARG:HB2	2.17	0.65
18:B3:2839:C:O3'	22:BC:224:GLY:HA3	1.96	0.65
19:B4:34:A:O4'	24:BE:203:HIS:O	2.06	0.65
21:BB:142:GLU:CG	21:BB:144:LYS:HE3	2.27	0.65
22:BC:20:ARG:NH1	22:BC:20:ARG:H	1.95	0.65
22:BC:217:ILE:HG22	22:BC:275:THR:HB	1.78	0.65
22:BC:310:PHE:CE2	22:BC:311:VAL:HG23	2.31	0.65
24:BE:33:ARG:NH2	24:BE:34:LYS:HA	2.12	0.65
24:BE:68:THR:HG22	24:BE:69:ILE:N	2.12	0.65
24:BE:135:VAL:HG21	24:BE:142:PHE:HE1	1.62	0.65
26:BG:157:ASP:HB2	26:BG:159:ILE:CD1	2.26	0.65
27:BH:65:VAL:O	27:BH:69:ARG:HG3	1.96	0.65
31:BL:83:PRO:HB2	31:BL:86:GLN:HB2	1.77	0.65
33:BN:123:LYS:HG2	33:BN:124:GLN:O	1.97	0.65
40:BU:63:LYS:HD2	40:BU:63:LYS:N	2.12	0.65
41:BV:69:LYS:CG	41:BV:70:PRO:HA	2.26	0.65
41:BV:74:LEU:CD2	41:BV:137:ILE:HD11	2.27	0.65
42:B0:17:PHE:HD2	42:B0:32:TRP:CB	2.10	0.65
42:B0:79:VAL:HG21	42:B0:108:ILE:O	1.97	0.65
1:AA:987:G:C6	1:AA:1014:A:C2	2.85	0.65
1:AA:989:C:C2	1:AA:1016:A:C1'	2.80	0.65
1:AA:1177:G:C5	9:AI:106:LYS:HD2	2.31	0.65
1:AA:1219:U:H4'	17:AS:59:LYS:N	1.65	0.65
5:AD:150:LEU:CD2	5:AD:189:ASP:HA	2.26	0.65
6:AE:157:THR:CB	8:AH:127:PHE:CZ	2.79	0.65
9:AI:42:ILE:O	9:AI:42:ILE:HG13	1.97	0.65
9:AI:51:LEU:CD2	9:AI:84:ILE:HG12	2.21	0.65
9:AI:98:GLU:N	9:AI:105:LYS:N	2.45	0.65
18:B3:449:A:OP1	23:BD:45:LYS:CB	2.44	0.65
18:B3:492:C:O2'	33:BN:100:ASN:HA	1.95	0.65
18:B3:540:A:H5'	42:B0:18:LYS:H	1.61	0.65
18:B3:698:A:P	41:BV:132:LEU:O	2.55	0.65
18:B3:1308:A:HO2'	23:BD:204:PRO:CB	1.99	0.65
18:B3:1381:A:C6	43:BW:25:LYS:O	2.50	0.65
18:B3:1675:C:C5	39:BT:112:LEU:C	2.69	0.65
18:B3:1676:G:C5'	39:BT:115:PRO:CA	2.71	0.65
18:B3:1788:U:C2	18:B3:2875:A:N6	2.64	0.65
18:B3:2052:U:OP2	33:BN:23:VAL:HG22	1.97	0.65
18:B3:2350:G:N2	29:BJ:116:ASP:CG	2.50	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2468:A:C2	46:BZ:55:PRO:HD3	2.31	0.65
21:BB:237:ILE:HD12	21:BB:237:ILE:H	1.62	0.65
22:BC:81:PRO:HG3	22:BC:204:VAL:H	1.61	0.65
25:BF:83:VAL:CG1	25:BF:116:VAL:HB	2.26	0.65
26:BG:119:LYS:CG	26:BG:188:LEU:HG	2.26	0.65
26:BG:173:GLY:O	26:BG:175:PRO:HD3	1.97	0.65
26:BG:182:LYS:HD3	26:BG:183:ALA:H	1.62	0.65
27:BH:18:VAL:CG1	27:BH:48:VAL:HG22	2.27	0.65
27:BH:46:THR:HG22	27:BH:55:VAL:N	2.11	0.65
27:BH:67:ALA:HB3	32:BM:127:ARG:CA	2.15	0.65
27:BH:167:VAL:HG23	27:BH:170:LYS:NZ	2.11	0.65
28:BI:34:TYR:HB2	28:BI:89:VAL:CG2	2.26	0.65
28:BI:58:GLU:CG	28:BI:128:ARG:HG2	2.22	0.65
29:BJ:8:MET:HE2	29:BJ:9:ARG:HG2	1.79	0.65
29:BJ:18:LEU:H	29:BJ:68:VAL:CB	2.09	0.65
30:BK:32:ILE:HD12	30:BK:37:LEU:CD2	2.08	0.65
32:BM:45:GLU:HG2	32:BM:133:LYS:HG2	1.79	0.65
32:BM:90:LYS:H	32:BM:90:LYS:HE3	1.61	0.65
33:BN:40:LEU:HD11	33:BN:108:ALA:O	1.96	0.65
35:BP:13:VAL:O	35:BP:14:VAL:HG23	1.95	0.65
35:BP:41:ARG:HH11	35:BP:44:VAL:HB	1.58	0.65
35:BP:51:LYS:HG3	35:BP:52:LYS:H	1.62	0.65
38:BS:54:LEU:O	38:BS:54:LEU:HD23	1.97	0.65
42:B0:34:LYS:HA	42:B0:34:LYS:HZ3	1.62	0.65
42:B0:43:ARG:HG3	42:B0:44:ARG:N	2.11	0.65
43:BW:16:HIS:HE1	43:BW:31:ALA:HA	1.60	0.65
46:BZ:66:LYS:CA	46:BZ:86:ARG:HD3	2.25	0.65
47:B9:47:LYS:HZ2	47:B9:48:ARG:HD2	1.62	0.65
1:AA:190(F):G:O6	1:AA:266:G:OP2	2.14	0.65
1:AA:918:A:H2'	1:AA:919:A:C8	2.31	0.65
1:AA:1316:G:N1	17:AS:49:MET:SD	2.70	0.65
2:AT:369:ILE:HD13	2:AT:402:ALA:HB2	1.79	0.65
2:AT:500:ASP:CB	2:AT:552:VAL:HG11	2.27	0.65
5:AD:134:ILE:O	5:AD:140:ILE:HG13	1.96	0.65
12:AL:92:CYS:SG	12:AL:93:LEU:HD22	2.37	0.65
18:B3:170:U:C6	46:BZ:49:PHE:HZ	1.98	0.65
18:B3:399:C:OP1	31:BL:180:ASN:CG	2.34	0.65
18:B3:1167:G:C1'	30:BK:110:ILE:HB	2.27	0.65
18:B3:1206:C:H2'	18:B3:1207:A:O4'	1.96	0.65
18:B3:1231:A:C2'	18:B3:2553:A:C6	2.79	0.65
18:B3:1689:A:C6	33:BN:128:THR:CG2	2.66	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1814:G:H3'	18:B3:2733:U:N3	2.12	0.65
18:B3:2633:A:OP1	21:BB:213:GLY:HA2	1.97	0.65
18:B3:2670:G:O2'	18:B3:2671:U:H5'	1.97	0.65
18:B3:2737:C:N1	35:BP:60:SER:HB3	2.12	0.65
18:B3:2820:A:O2'	22:BC:89:VAL:HG12	1.97	0.65
22:BC:231:ARG:HD3	22:BC:232:TRP:HE3	1.61	0.65
23:BD:166:ALA:O	23:BD:169:LYS:HG2	1.97	0.65
24:BE:17:GLN:N	36:BQ:19:PHE:CE2	2.65	0.65
24:BE:151:GLN:HG2	24:BE:152:ARG:N	2.11	0.65
25:BF:169:GLU:OE1	25:BF:172:LEU:HA	1.97	0.65
27:BH:12:VAL:HG22	27:BH:13:PRO:HA	1.77	0.65
27:BH:129:ARG:CG	27:BH:156:GLN:HE22	2.09	0.65
28:BI:70:ILE:HG22	28:BI:73:ASN:OD1	1.96	0.65
28:BI:100:ASN:CG	28:BI:112:GLN:HE21	2.00	0.65
29:BJ:16:LEU:HD11	29:BJ:75:ALA:HB1	1.77	0.65
32:BM:58:ARG:HD3	32:BM:58:ARG:O	1.96	0.65
33:BN:40:LEU:HD21	33:BN:108:ALA:O	1.96	0.65
34:BO:115:VAL:HG12	34:BO:116:LYS:N	2.12	0.65
35:BP:42:LYS:HD2	35:BP:42:LYS:C	2.17	0.65
37:BR:87:ARG:HA	37:BR:92:PHE:HD2	1.62	0.65
40:BU:63:LYS:HE2	40:BU:85:VAL:HG23	1.79	0.65
1:AA:551:U:N3	12:AL:47:SER:OG	2.30	0.65
1:AA:560:U:C2	1:AA:565:U:C5	2.84	0.65
1:AA:712:A:H61	11:AK:124:SER:CA	2.09	0.65
1:AA:1499:A:C6	1:AA:1519:A:H2'	2.32	0.65
2:AT:140:GLU:H	2:AT:481:MET:CG	2.08	0.65
3:AB:58:LEU:CD1	3:AB:61:ARG:HH22	2.09	0.65
4:AC:121:VAL:CG2	4:AC:135:VAL:HG21	2.26	0.65
6:AE:155:THR:HG21	8:AH:112:HIS:HE1	1.56	0.65
6:AE:204:ARG:HB3	6:AE:207:GLU:CB	2.27	0.65
9:AI:8:THR:HG21	9:AI:83:ALA:O	1.97	0.65
16:AQ:109:HIS:CB	16:AQ:130:ILE:HD13	2.27	0.65
18:B3:67:A:H1'	39:BT:60:LYS:NZ	2.11	0.65
18:B3:111:C:H5'	18:B3:122:C:N4	2.12	0.65
18:B3:170:U:H5"	31:BL:82:LYS:CB	2.26	0.65
18:B3:891:G:H5"	23:BD:54:LYS:NZ	2.12	0.65
18:B3:907:A:H8	18:B3:1328:A:C2'	2.09	0.65
18:B3:924:G:N7	41:BV:41:ARG:CZ	2.60	0.65
18:B3:1115:U:C5'	18:B3:1140:C:O2	2.44	0.65
18:B3:1309:U:C6	23:BD:202:ARG:O	2.45	0.65
18:B3:1652:C:HO2'	21:BB:187:LYS:HG3	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1676:G:H8	39:BT:113:VAL:CG2	2.10	0.65
18:B3:2052:U:P	33:BN:24:SER:H	2.20	0.65
18:B3:2765:C:O2'	22:BC:325:GLY:HA3	1.96	0.65
19:B4:29:C:C2'	19:B4:30:C:H5'	2.26	0.65
21:BB:201:VAL:HG11	21:BB:216:GLN:CA	2.26	0.65
22:BC:52:MET:SD	22:BC:77:VAL:HG13	2.36	0.65
22:BC:229:THR:HG23	22:BC:246:ARG:HB3	1.79	0.65
28:BI:53:VAL:O	28:BI:163:GLN:HG3	1.96	0.65
29:BJ:140:ARG:HA	29:BJ:140:ARG:NE	2.12	0.65
31:BL:60:ILE:HG22	31:BL:132:ILE:HG12	1.77	0.65
31:BL:161:ARG:HG3	31:BL:168:LYS:NZ	2.12	0.65
32:BM:83:LEU:HB3	32:BM:84:ARG:HH11	1.61	0.65
33:BN:35:ILE:HG13	33:BN:43:ALA:HB1	1.78	0.65
34:BO:60:PRO:CB	34:BO:85:GLY:HA3	2.27	0.65
35:BP:14:VAL:HG12	35:BP:16:VAL:HG13	1.79	0.65
35:BP:96:ARG:NE	35:BP:96:ARG:HA	2.11	0.65
37:BR:60:ALA:H	37:BR:74:MET:HG3	1.62	0.65
40:BU:14:LYS:HE2	40:BU:15:ALA:N	2.12	0.65
40:BU:14:LYS:CD	40:BU:17:LYS:HE3	2.20	0.65
46:BZ:22:HIS:CE1	46:BZ:73:CYS:HA	2.30	0.65
47:B9:47:LYS:HZ2	47:B9:47:LYS:HA	1.62	0.65
1:AA:560:U:O2'	1:AA:563:A:N9	2.28	0.64
1:AA:970:C:C5	9:AI:142:ARG:NH2	2.40	0.64
1:AA:990:C:C6	1:AA:1017:G:O4'	2.50	0.64
1:AA:1286:A:H8	1:AA:1287:A:H5"	1.62	0.64
1:AA:1309:G:N7	13:AM:92:ILE:HG21	0.80	0.64
1:AA:1318:A:N6	17:AS:56:PHE:CZ	2.65	0.64
2:AT:378:LEU:H	2:AT:471:THR:CG2	2.11	0.64
2:AT:465:LYS:NZ	2:AT:518:VAL:HG11	2.12	0.64
7:AG:195:GLU:O	7:AG:198:ILE:HG22	1.97	0.64
8:AH:101:VAL:HB	8:AH:127:PHE:CD2	2.32	0.64
10:AJ:49:ASN:CB	10:AJ:99:ILE:HG12	2.27	0.64
13:AM:69:ILE:HG13	13:AM:70:VAL:N	2.12	0.64
15:AO:120:ARG:O	15:AO:124:LEU:HG	1.97	0.64
18:B3:26:U:C2'	18:B3:1320:U:H6	2.10	0.64
18:B3:26:U:O2	18:B3:1320:U:O4'	1.96	0.64
18:B3:52:A:H8	18:B3:121:U:O2	1.76	0.64
18:B3:537:G:H2'	42:B0:41:VAL:CG1	2.25	0.64
18:B3:764:C:C2'	23:BD:86:GLN:HB2	2.18	0.64
18:B3:782:G:H4'	21:BB:189:ARG:NH1	2.04	0.64
18:B3:844:A:OP2	33:BN:130:ARG:CB	2.25	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1164:U:H5	30:BK:49:ALA:O	1.80	0.64
18:B3:1206:C:HO2'	18:B3:1207:A:C5'	2.01	0.64
18:B3:1676:G:H4'	39:BT:115:PRO:CG	2.23	0.64
18:B3:2333:G:H2'	29:BJ:114:LYS:HG2	1.79	0.64
18:B3:2347:C:C5	29:BJ:66:VAL:HG13	2.04	0.64
18:B3:2568:A:H5"	18:B3:2702:A:O2'	1.96	0.64
18:B3:2737:C:C5	35:BP:60:SER:C	2.71	0.64
18:B3:2846:C:C2'	22:BC:172:GLN:OE1	2.46	0.64
22:BC:75:VAL:CG2	22:BC:326:CYS:HB3	2.26	0.64
22:BC:81:PRO:CD	22:BC:204:VAL:HG13	2.27	0.64
22:BC:112:GLU:HB2	22:BC:173:LYS:CB	2.26	0.64
22:BC:162:HIS:HD2	22:BC:175:ALA:CB	2.10	0.64
22:BC:251:ILE:HG22	22:BC:259:VAL:HG11	1.79	0.64
24:BE:131:LEU:HG	24:BE:132:THR:N	2.12	0.64
25:BF:102:LEU:HD12	25:BF:129:ILE:HG21	1.79	0.64
27:BH:27:VAL:C	27:BH:33:THR:HG23	2.18	0.64
28:BI:39:LYS:C	28:BI:40:LYS:HD3	2.17	0.64
32:BM:15:VAL:HG22	32:BM:42:ILE:HG22	1.79	0.64
32:BM:89:HIS:O	32:BM:95:LYS:HB3	1.97	0.64
33:BN:93:LEU:HG	33:BN:94:LEU:N	2.11	0.64
35:BP:94:TRP:CH2	35:BP:95:ILE:HG23	2.31	0.64
39:BT:73:LYS:O	39:BT:76:GLU:HB3	1.97	0.64
39:BT:113:VAL:HG23	39:BT:114:ARG:N	2.11	0.64
40:BU:31:LEU:HG	40:BU:78:PHE:HB3	1.79	0.64
42:B0:72:LYS:N	42:B0:90:LYS:HB2	2.12	0.64
42:B0:85:LEU:CD2	42:B0:117:ILE:HG21	2.27	0.64
1:AA:24:U:H5"	12:AL:39:LYS:HD2	1.78	0.64
1:AA:119:A:C2	1:AA:238:G:C4	2.85	0.64
1:AA:712:A:H61	11:AK:124:SER:CB	2.10	0.64
1:AA:1220:G:C2'	17:AS:95:GLY:O	2.45	0.64
1:AA:1248:A:N3	9:AI:73:HIS:CE1	2.65	0.64
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.96	0.64
8:AH:48:GLU:HG2	8:AH:49:PHE:N	2.11	0.64
15:AO:87:LEU:HD22	15:AO:121:ILE:HG23	1.79	0.64
15:AO:96:SER:O	15:AO:99:LYS:HB3	1.96	0.64
15:AO:112:PHE:HA	15:AO:115:ILE:HD12	1.78	0.64
18:B3:78:G:C2'	40:BU:27:ARG:NH2	2.61	0.64
18:B3:265:U:H4'	31:BL:55:LYS:HD3	1.80	0.64
18:B3:678:G:OP1	23:BD:259:GLN:O	0.65	0.64
18:B3:1019:C:H4'	36:BQ:61:THR:HG21	1.76	0.64
18:B3:1689:A:H2	33:BN:128:THR:OG1	1.75	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1855:G:O6	21:BB:150:PRO:N	2.30	0.64
18:B3:2019:A:H1'	47:B9:17:TYR:HE2	1.62	0.64
18:B3:2349:G:C5'	29:BJ:15:LYS:HD2	2.28	0.64
18:B3:2408:A:N3	46:BZ:19:HIS:CD2	2.65	0.64
18:B3:2489:G:O2'	18:B3:2490:A:C8	2.50	0.64
18:B3:2527:U:OP1	18:B3:2605:G:OP1	2.16	0.64
18:B3:2547:C:H4'	22:BC:248:VAL:HG13	1.77	0.64
18:B3:2846:C:OP1	22:BC:176:HIS:HB3	1.96	0.64
19:B4:8:G:C6	24:BE:21:ARG:HD3	2.31	0.64
21:BB:122:ARG:HE	21:BB:123:GLY:H	1.46	0.64
21:BB:204:ASN:HB2	21:BB:212:GLY:N	2.13	0.64
22:BC:32:PRO:HA	22:BC:342:TYR:CD1	2.31	0.64
22:BC:46:LEU:HD12	22:BC:47:GLY:H	1.62	0.64
22:BC:161:VAL:HG23	22:BC:177:LEU:CB	2.24	0.64
22:BC:324:LYS:N	22:BC:324:LYS:HE3	2.13	0.64
23:BD:130:VAL:HG22	23:BD:131:ALA:H	1.62	0.64
23:BD:180:VAL:HG12	23:BD:181:LEU:N	2.11	0.64
24:BE:108:ARG:NE	24:BE:108:ARG:HA	2.11	0.64
25:BF:157:LYS:HE2	25:BF:159:ARG:HH22	1.62	0.64
25:BF:161:PRO:O	25:BF:162:LEU:HD13	1.97	0.64
26:BG:130:ALA:HB2	26:BG:202:VAL:CG2	2.27	0.64
27:BH:112:ILE:HG23	27:BH:113:GLU:OE2	1.98	0.64
28:BI:44:ASP:HA	28:BI:46:PHE:CE2	2.32	0.64
28:BI:51:HIS:CA	28:BI:52:LEU:HD13	2.27	0.64
29:BJ:69:THR:O	29:BJ:70:VAL:HG13	1.96	0.64
32:BM:26:LEU:CD1	32:BM:97:ALA:HB1	2.27	0.64
33:BN:35:ILE:HB	33:BN:43:ALA:CB	2.26	0.64
33:BN:85:LYS:HE3	33:BN:88:LYS:HZ3	1.61	0.64
33:BN:115:HIS:HB3	33:BN:148:VAL:CG2	2.16	0.64
34:BO:81:VAL:H	34:BO:101:VAL:HG21	1.61	0.64
40:BU:39:LEU:HA	40:BU:42:GLN:HG2	1.78	0.64
42:B0:27:ARG:CZ	42:B0:28:VAL:HA	2.27	0.64
42:B0:76:VAL:HG13	42:B0:81:ASP:OD2	1.98	0.64
45:BY:9:LYS:HE2	45:BY:10:ARG:N	2.13	0.64
46:BZ:21:GLN:HG2	46:BZ:74:VAL:HG12	1.80	0.64
1:AA:293:G:C5'	1:AA:610:G:C2	2.78	0.64
1:AA:294:U:OP2	1:AA:610:G:N3	2.29	0.64
1:AA:520:A:OP1	12:AL:70:LYS:CE	2.37	0.64
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.27	0.64
1:AA:1344:C:OP2	9:AI:136:ARG:NE	2.30	0.64
3:AB:176:LEU:HD12	3:AB:177:ALA:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:167:ILE:CD1	4:AC:188:MET:HA	2.27	0.64
6:AE:138:ILE:CG1	6:AE:217:ILE:HD11	2.27	0.64
10:AJ:69:LYS:HE3	14:AN:39:ARG:NH1	2.11	0.64
13:AM:66:LEU:O	13:AM:66:LEU:HD23	1.97	0.64
14:AN:29:LEU:HD12	14:AN:38:CYS:HA	1.78	0.64
18:B3:28:G:O3'	18:B3:1343:C:H5'	1.97	0.64
18:B3:337:A:C2	18:B3:1314:U:O2'	2.50	0.64
18:B3:618:G:C8	42:B0:46:PHE:CG	2.80	0.64
18:B3:1054:G:P	28:BI:14:ASN:OD1	2.54	0.64
18:B3:1134:G:C4'	18:B3:1229:C:H5'	2.27	0.64
18:B3:1225:C:H4'	18:B3:1248:A:N1	2.11	0.64
18:B3:1355:A:H4'	18:B3:1355:A:OP1	1.98	0.64
18:B3:1445:G:OP1	39:BT:69:GLU:N	2.31	0.64
18:B3:1761:U:O4'	35:BP:80:ARG:NH2	2.29	0.64
18:B3:1860:U:O2	21:BB:9:LYS:HD2	1.96	0.64
18:B3:1993:C:H5"	37:BR:70:ARG:NH2	2.12	0.64
18:B3:2037:C:C5	18:B3:2762:C:OP1	2.51	0.64
18:B3:2837:U:O2	22:BC:334:ILE:CG1	2.46	0.64
19:B4:8:G:N7	24:BE:21:ARG:CG	2.59	0.64
21:BB:176:LYS:H	21:BB:176:LYS:HZ3	1.45	0.64
22:BC:162:HIS:CA	22:BC:177:LEU:HG	2.27	0.64
23:BD:38:PHE:HA	23:BD:41:VAL:CG2	2.27	0.64
23:BD:225:GLU:CG	23:BD:236:GLN:HG3	2.22	0.64
23:BD:245:ARG:HA	23:BD:245:ARG:NH1	2.12	0.64
31:BL:177:HIS:CD2	31:BL:178:LYS:HG2	2.29	0.64
31:BL:186:ARG:HD3	31:BL:187:ARG:N	2.12	0.64
34:BO:63:SER:HB3	34:BO:90:ASP:CG	2.18	0.64
35:BP:70:ARG:O	35:BP:70:ARG:HG2	1.97	0.64
40:BU:17:LYS:HZ2	40:BU:18:ALA:N	1.95	0.64
40:BU:61:GLY:O	40:BU:63:LYS:HD2	1.97	0.64
1:AA:102:G:C1'	1:AA:151:A:HO2'	2.07	0.64
1:AA:392:G:H2'	1:AA:393:A:C8	2.32	0.64
1:AA:560:U:C6	1:AA:563:A:H5'	2.32	0.64
5:AD:118:LEU:O	5:AD:163:PRO:HG2	1.97	0.64
5:AD:175:ARG:CG	5:AD:191:ALA:HB2	2.27	0.64
6:AE:114:ILE:O	6:AE:114:ILE:HG13	1.96	0.64
7:AG:145:THR:HG21	7:AG:219:VAL:HG12	1.78	0.64
8:AH:39:VAL:HG22	8:AH:43:HIS:ND1	2.11	0.64
9:AI:50:PRO:CG	9:AI:115:LEU:HD13	2.27	0.64
9:AI:99:GLN:NE2	9:AI:113:ARG:HB2	2.11	0.64
13:AM:84:TRP:HE3	13:AM:101:LEU:HD21	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:28:G:C4'	18:B3:1317:A:C2	2.80	0.64
18:B3:51:G:H4'	45:BY:20:ARG:CB	2.27	0.64
18:B3:164:G:C5'	41:BV:31:ARG:CG	2.75	0.64
18:B3:420:U:H2'	18:B3:421:C:C6	2.33	0.64
18:B3:1055:G:H21	28:BI:108:ALA:HB2	1.61	0.64
18:B3:1191:G:H22	18:B3:1207:A:H1'	1.62	0.64
18:B3:1310:U:C5	23:BD:202:ARG:CA	2.80	0.64
18:B3:1579:C:H2'	18:B3:1580:A:C8	2.33	0.64
18:B3:2720:C:OP1	38:BS:33:ASN:OD1	2.15	0.64
18:B3:2734:G:P	35:BP:79:LYS:HZ3	2.12	0.64
20:BA:94:ASN:HB3	20:BA:123:LEU:HD12	1.79	0.64
20:BA:215:ARG:H	20:BA:215:ARG:HH11	1.45	0.64
21:BB:79:GLU:O	47:B9:65:GLY:CA	2.46	0.64
22:BC:260:MET:HB2	32:BM:66:THR:CG2	2.19	0.64
23:BD:9:SER:OG	23:BD:11:THR:HG22	1.98	0.64
23:BD:181:LEU:HB2	23:BD:203:GLY:H	1.63	0.64
23:BD:186:LEU:HA	23:BD:198:TRP:O	1.97	0.64
23:BD:255:THR:HG22	23:BD:256:LYS:N	2.12	0.64
24:BE:20:PHE:CB	24:BE:24:ARG:HB2	2.26	0.64
26:BG:212:LYS:CE	26:BG:213:LEU:HD23	2.28	0.64
28:BI:30:LYS:CG	28:BI:66:GLU:HG3	2.22	0.64
33:BN:69:THR:HG22	33:BN:70:ALA:N	2.13	0.64
34:BO:122:ILE:CD1	34:BO:126:GLN:HB3	2.05	0.64
37:BR:61:THR:HG23	37:BR:71:LYS:O	1.97	0.64
40:BU:14:LYS:HD2	40:BU:17:LYS:HD3	1.78	0.64
40:BU:38:GLU:HA	40:BU:40:ARG:NH2	2.13	0.64
41:BV:112:LEU:HG	41:BV:113:GLY:N	2.12	0.64
42:B0:41:VAL:HG13	42:B0:42:VAL:N	2.12	0.64
42:B0:101:SER:HB2	42:B0:105:ARG:HB2	1.78	0.64
43:BW:8:THR:HG22	43:BW:73:ARG:HH22	1.63	0.64
43:BW:53:GLU:H	43:BW:55:ASN:ND2	1.94	0.64
44:BX:31:LEU:O	44:BX:35:LYS:HB2	1.97	0.64
46:BZ:15:THR:HB	46:BZ:78:THR:HG21	1.79	0.64
1:AA:309:G:N3	1:AA:608:A:C2	2.66	0.64
1:AA:397:A:H5'	1:AA:398:C:OP1	1.98	0.64
1:AA:562:C:C6	12:AL:33:LEU:CD2	2.80	0.64
1:AA:922:G:H2'	1:AA:923:A:C8	2.32	0.64
1:AA:1224:G:N3	13:AM:137:HIS:CD2	2.65	0.64
2:AT:454:ILE:HG13	2:AT:455:GLY:H	1.62	0.64
4:AC:164:ASN:HD22	4:AC:192:ALA:HB3	1.63	0.64
7:AG:110:VAL:CG2	9:AI:43:LEU:CG	2.75	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:111:ARG:HH21	9:AI:41:GLU:HB2	0.82	0.64
8:AH:37:LEU:HD12	8:AH:60:ILE:HG21	1.79	0.64
9:AI:89:VAL:CG2	9:AI:101:LYS:HG2	2.27	0.64
13:AM:28:ILE:HD13	13:AM:61:LEU:HD11	1.79	0.64
18:B3:49:A:N1	18:B3:113:A:O4'	2.30	0.64
18:B3:1118:A:C4'	18:B3:1227:C:C4	2.81	0.64
18:B3:1349:G:OP1	23:BD:36:THR:HA	1.97	0.64
18:B3:1778:A:H2'	18:B3:1779:A:H5'	1.79	0.64
18:B3:2135:A:H2	18:B3:2240:U:C4	2.14	0.64
18:B3:2346:C:O4'	29:BJ:64:ILE:C	2.35	0.64
18:B3:2890:A:C2	38:BS:51:TRP:CA	2.49	0.64
19:B4:118:C:H4'	24:BE:68:THR:CG2	2.23	0.64
20:BA:9:VAL:HG21	20:BA:180:VAL:CG1	2.24	0.64
21:BB:60:VAL:HG12	21:BB:61:VAL:N	2.11	0.64
21:BB:79:GLU:O	47:B9:64:ALA:O	2.15	0.64
21:BB:237:ILE:HD12	21:BB:237:ILE:N	2.13	0.64
22:BC:32:PRO:HA	22:BC:342:TYR:HD1	1.63	0.64
22:BC:173:LYS:HE3	22:BC:173:LYS:H	1.60	0.64
23:BD:160:LYS:HE3	23:BD:160:LYS:C	2.18	0.64
24:BE:107:ARG:N	24:BE:110:LEU:HB2	2.11	0.64
24:BE:183:TRP:HB2	24:BE:187:THR:HG22	1.79	0.64
25:BF:167:ILE:HD13	25:BF:183:LEU:HD11	1.80	0.64
31:BL:163:LEU:O	31:BL:164:THR:HB	1.98	0.64
33:BN:51:LEU:O	33:BN:51:LEU:HD23	1.97	0.64
33:BN:56:ALA:HB2	33:BN:73:LYS:HB2	1.78	0.64
34:BO:62:VAL:HB	34:BO:87:VAL:HA	1.77	0.64
41:BV:74:LEU:CD1	41:BV:137:ILE:HD11	2.27	0.64
41:BV:127:ARG:N	41:BV:146:LEU:HD12	2.12	0.64
42:B0:111:ARG:HH21	42:B0:113:LYS:CD	2.10	0.64
1:AA:35:G:H5'	12:AL:130:VAL:CG2	2.26	0.64
1:AA:678:U:H2'	11:AK:125:THR:HG21	1.79	0.64
1:AA:1332:A:P	13:AM:40:ARG:CD	2.83	0.64
6:AE:138:ILE:HD12	6:AE:217:ILE:HD11	1.78	0.64
11:AK:40:ARG:HD3	11:AK:65:ASP:OD2	1.97	0.64
13:AM:100:THR:HG23	13:AM:105:VAL:CG1	2.27	0.64
18:B3:57:C:C1'	44:BX:35:LYS:CE	2.72	0.64
18:B3:874:A:O4'	21:BB:196:PRO:HG2	1.98	0.64
18:B3:968:G:C5'	28:BI:35:ASP:OD2	2.45	0.64
18:B3:1002:G:C3'	28:BI:90:ARG:CZ	2.75	0.64
18:B3:1139:U:C4'	27:BH:62:ARG:CG	2.66	0.64
18:B3:1232:A:HO2'	18:B3:2525:G:P	2.19	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1501:A:OP2	35:BP:37:ARG:HD2	1.97	0.64
18:B3:1805:G:H21	18:B3:2875:A:H61	1.21	0.64
18:B3:1942:A:O2'	21:BB:222:SER:OG	2.16	0.64
18:B3:2051:G:O3'	33:BN:23:VAL:HG23	1.96	0.64
18:B3:2345:A:O2'	29:BJ:62:GLU:HG3	1.97	0.64
18:B3:2381:C:H4'	46:BZ:8:LYS:NZ	2.13	0.64
20:BA:120:VAL:CG1	20:BA:121:PRO:HD2	2.19	0.64
21:BB:61:VAL:HG13	21:BB:62:PHE:H	1.63	0.64
22:BC:55:ILE:HG13	22:BC:357:TRP:O	1.97	0.64
23:BD:7:VAL:HA	23:BD:150:VAL:HG21	1.80	0.64
24:BE:48:LYS:HB2	24:BE:67:SER:HB2	1.79	0.64
24:BE:154:THR:HG22	24:BE:155:THR:N	2.12	0.64
25:BF:167:ILE:HG22	25:BF:168:ILE:N	2.13	0.64
26:BG:149:LEU:HD21	26:BG:210:LEU:HG	1.80	0.64
28:BI:65:LEU:O	28:BI:66:GLU:HB3	1.98	0.64
30:BK:98:VAL:HG11	30:BK:142:ARG:HH11	1.63	0.64
31:BL:26:VAL:HG21	31:BL:122:GLN:NE2	2.13	0.64
31:BL:75:PRO:HG2	31:BL:86:GLN:HA	1.78	0.64
33:BN:14:ALA:HB1	33:BN:100:ASN:ND2	2.12	0.64
35:BP:21:VAL:HG23	35:BP:22:TRP:CE3	2.31	0.64
38:BS:19:THR:HG22	38:BS:20:LEU:N	2.12	0.64
43:BW:5:ASP:HA	43:BW:76:ARG:HH21	1.61	0.64
1:AA:400:C:C2'	1:AA:622:A:C4'	2.74	0.64
1:AA:434:U:H2'	1:AA:435:C:H6	1.62	0.64
1:AA:538:G:C5'	12:AL:141:GLU:CA	2.13	0.64
1:AA:987:G:O6	17:AS:77:ARG:NH1	2.31	0.64
1:AA:1176:A:N6	9:AI:108:PHE:O	2.30	0.64
1:AA:1291:G:C4'	7:AG:111:ARG:HH22	2.10	0.64
2:AT:103:ILE:HD11	2:AT:453:ILE:HD11	1.79	0.64
2:AT:109:VAL:CG2	2:AT:138:GLN:HG3	2.27	0.64
2:AT:497:ASN:HB3	2:AT:500:ASP:OD2	1.98	0.64
5:AD:127:VAL:O	5:AD:130:THR:HG22	1.98	0.64
6:AE:205:THR:HA	6:AE:209:THR:OG1	1.98	0.64
10:AJ:58:LEU:CD2	10:AJ:90:TYR:HD2	2.11	0.64
10:AJ:70:THR:HG21	10:AJ:74:GLU:O	1.96	0.64
11:AK:27:VAL:CG1	11:AK:66:VAL:HG21	2.19	0.64
11:AK:75:ILE:HG23	11:AK:109:LEU:CD2	2.25	0.64
18:B3:107:U:C4'	44:BX:56:THR:HA	2.27	0.64
18:B3:264:G:N1	26:BG:137:HIS:CD2	2.66	0.64
18:B3:449:A:H3'	23:BD:46:ARG:CD	2.27	0.64
18:B3:677:C:H1'	23:BD:230:ALA:C	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1019:C:O4'	36:BQ:61:THR:HG22	1.98	0.64
18:B3:1131:G:C5	18:B3:2523:U:C5'	2.75	0.64
18:B3:1353:C:OP2	23:BD:49:TYR:OH	2.15	0.64
18:B3:2109:U:C5	41:BV:42:ILE:CD1	2.79	0.64
18:B3:2552:C:C1'	18:B3:2553:A:C2'	2.75	0.64
18:B3:2579:G:C5'	18:B3:2680:A:C5'	2.75	0.64
18:B3:2652:U:C1'	22:BC:257:ALA:HB3	2.11	0.64
18:B3:2820:A:H5'	22:BC:101:LEU:HB2	1.73	0.64
18:B3:2827:A:OP2	22:BC:122:TYR:O	2.06	0.64
21:BB:131:ASN:O	21:BB:168:ILE:HG12	1.98	0.64
22:BC:42:LEU:HD12	22:BC:42:LEU:N	2.12	0.64
22:BC:52:MET:HG3	22:BC:53:THR:N	2.13	0.64
22:BC:185:GLY:N	22:BC:190:LYS:HE3	2.11	0.64
22:BC:283:ARG:HG3	22:BC:322:MET:CE	2.27	0.64
24:BE:156:GLY:HA2	24:BE:181:PRO:HD3	1.74	0.64
25:BF:101:VAL:C	25:BF:102:LEU:HD12	2.17	0.64
27:BH:47:LYS:HA	27:BH:47:LYS:NZ	2.13	0.64
29:BJ:19:ASN:OD1	29:BJ:66:VAL:HG22	1.98	0.64
32:BM:91:THR:HA	32:BM:95:LYS:HD2	1.78	0.64
40:BU:100:HIS:CE1	40:BU:103:LYS:HZ2	2.16	0.64
47:B9:23:ARG:CD	47:B9:27:LYS:HE3	2.25	0.64
1:AA:69:G:O2'	1:AA:171:A:C5	2.49	0.64
1:AA:105:G:H21	1:AA:379:C:H1'	1.61	0.64
1:AA:122:G:N1	1:AA:288:A:N1	2.46	0.64
1:AA:132:C:OP2	16:AQ:128:ARG:NH2	2.31	0.64
1:AA:190(E):U:C4'	16:AQ:130:ILE:HD13	2.26	0.64
1:AA:1419:G:O2'	18:B3:1991:A:H5'	1.98	0.64
3:AB:186:ALA:HB1	3:AB:188:VAL:HG13	1.80	0.64
7:AG:84:ALA:HB3	7:AG:89:ILE:CG1	2.28	0.64
18:B3:263:U:H3	26:BG:157:ASP:CG	2.01	0.64
18:B3:719:C:C1'	34:BO:73:GLN:CD	2.44	0.64
18:B3:1566:C:H5"	35:BP:57:HIS:NE2	2.13	0.64
18:B3:1717:A:H5"	35:BP:54:VAL:HG23	1.78	0.64
18:B3:1807:U:C5'	18:B3:2884:G:C4	2.80	0.64
18:B3:1993:C:O4'	37:BR:72:LYS:N	2.31	0.64
18:B3:2049:C:OP1	33:BN:81:ARG:CA	2.42	0.64
18:B3:2334:C:N1	29:BJ:114:LYS:N	2.41	0.64
18:B3:2347:C:C4'	29:BJ:66:VAL:HG12	2.27	0.64
18:B3:2546:U:C3'	22:BC:235:LYS:CG	2.00	0.64
18:B3:2552:C:H5'	18:B3:2553:A:C2	2.28	0.64
18:B3:2826:G:C8	22:BC:124:SER:N	2.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2890:A:H5"	18:B3:2890:A:C8	2.26	0.64
18:B3:2894:C:O2'	18:B3:2895:C:H5'	1.97	0.64
20:BA:179:LEU:CD1	20:BA:183:ILE:HD11	2.28	0.64
21:BB:81:VAL:HG22	47:B9:64:ALA:CB	2.28	0.64
21:BB:177:PRO:HG3	47:B9:22:ARG:CZ	2.27	0.64
22:BC:57:ARG:NH1	22:BC:72:VAL:HG21	2.12	0.64
25:BF:168:ILE:HD11	25:BF:183:LEU:HD21	1.79	0.64
26:BG:115:VAL:HG11	26:BG:213:LEU:HD13	1.80	0.64
26:BG:152:ILE:HB	26:BG:176:TYR:CE2	2.31	0.64
27:BH:47:LYS:HA	27:BH:47:LYS:HE3	1.78	0.64
27:BH:48:VAL:HA	27:BH:53:ILE:CG2	2.23	0.64
28:BI:70:ILE:CD1	28:BI:74:LYS:HD3	2.26	0.64
29:BJ:162:PHE:HA	29:BJ:165:LYS:CD	2.27	0.64
30:BK:90:ARG:CB	30:BK:139:VAL:HG23	2.28	0.64
33:BN:39:GLU:O	33:BN:40:LEU:HG	1.98	0.64
33:BN:82:TRP:CB	33:BN:83:PRO:HA	2.27	0.64
35:BP:51:LYS:CE	35:BP:52:LYS:HE2	2.21	0.64
44:BX:31:LEU:O	44:BX:31:LEU:HD23	1.98	0.64
1:AA:32:A:N1	12:AL:47:SER:CB	2.61	0.64
1:AA:357:G:OP1	1:AA:366:C:P	2.54	0.64
1:AA:634:C:C5'	16:AQ:92:TYR:O	2.39	0.64
1:AA:818:G:H3'	1:AA:819:A:C5'	2.28	0.64
1:AA:1497:G:H2'	1:AA:1498:U:H5'	1.78	0.64
7:AG:132:VAL:HG12	7:AG:197:LEU:CD1	2.16	0.64
9:AI:33:SER:HB3	9:AI:37:LEU:HB3	1.80	0.64
9:AI:97:ASP:O	9:AI:105:LYS:HB2	1.98	0.64
10:AJ:79:TRP:O	14:AN:39:ARG:CZ	2.45	0.64
13:AM:42:TYR:OH	13:AM:97:ASP:HB3	1.97	0.64
17:AS:56:PHE:HB3	17:AS:58:LYS:CE	2.27	0.64
18:B3:26:U:O2'	18:B3:1319:G:H3'	1.93	0.64
18:B3:29:C:C3'	18:B3:1342:C:OP1	2.45	0.64
18:B3:77:G:H21	40:BU:25:SER:HB2	1.63	0.64
18:B3:697:G:H2'	41:BV:112:LEU:HD13	1.79	0.64
18:B3:698:A:P	41:BV:132:LEU:CD1	2.72	0.64
18:B3:721:A:C5'	34:BO:71:LEU:CB	2.64	0.64
18:B3:764:C:H1'	23:BD:86:GLN:CG	2.20	0.64
18:B3:775:G:OP1	45:BY:27:HIS:HE1	1.76	0.64
18:B3:924:G:O6	41:BV:41:ARG:CD	2.46	0.64
18:B3:1211:G:O2'	18:B3:1212:C:H5'	1.98	0.64
18:B3:1245:C:H41	32:BM:124:ARG:HD2	1.58	0.64
18:B3:1787:C:OP1	35:BP:73:ARG:NH2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1805:G:N2	18:B3:2882:G:C2'	2.61	0.64
18:B3:2520:G:H5'	28:BI:159:PHE:C	2.18	0.64
18:B3:2908:A:H2'	18:B3:2909:G:O4'	1.98	0.64
19:B4:6:C:H5'	24:BE:50:ARG:NH1	2.13	0.64
19:B4:68:G:C1'	24:BE:12:TYR:C	2.60	0.64
20:BA:11:GLU:O	20:BA:15:GLU:HG3	1.98	0.64
20:BA:62:ASN:OD1	20:BA:152:ARG:HD3	1.98	0.64
22:BC:12:HIS:NE2	22:BC:15:PHE:HE1	1.96	0.64
22:BC:83:VAL:CG2	22:BC:163:THR:HG22	2.27	0.64
22:BC:101:LEU:HD13	22:BC:145:ARG:CZ	2.28	0.64
22:BC:302:LYS:HG3	22:BC:305:THR:OG1	1.98	0.64
22:BC:311:VAL:CG1	22:BC:312:HIS:H	2.07	0.64
23:BD:62:GLU:O	23:BD:76:VAL:HG23	1.97	0.64
27:BH:18:VAL:HG13	27:BH:26:LYS:NZ	2.12	0.64
27:BH:20:ILE:HD12	27:BH:25:VAL:CA	2.27	0.64
29:BJ:76:GLU:O	29:BJ:77:GLU:HG3	1.98	0.64
30:BK:94:LYS:HB3	30:BK:138:SER:O	1.97	0.64
33:BN:25:PHE:HA	33:BN:28:THR:HG21	1.80	0.64
34:BO:62:VAL:HG22	34:BO:63:SER:N	2.12	0.64
35:BP:13:VAL:HG22	35:BP:41:ARG:HG3	1.80	0.64
36:BQ:64:VAL:HA	36:BQ:74:VAL:HA	1.78	0.64
40:BU:53:ASP:O	40:BU:110:HIS:HB2	1.97	0.64
41:BV:68:TRP:CD1	41:BV:107:GLY:HA3	2.33	0.64
41:BV:72:LEU:HD21	41:BV:77:LEU:HD11	1.80	0.64
41:BV:81:ILE:HG13	41:BV:95:LYS:HD3	1.78	0.64
41:BV:81:ILE:HD11	41:BV:86:ARG:NE	2.13	0.64
42:B0:76:VAL:HG22	42:B0:81:ASP:OD2	1.98	0.64
43:BW:7:VAL:H	43:BW:74:ILE:CG2	2.09	0.64
47:B9:72:THR:HG22	47:B9:73:ALA:N	2.12	0.64
1:AA:22:G:N2	1:AA:913:A:C6	2.65	0.64
1:AA:121:C:H6	1:AA:235:C:C5	2.10	0.64
1:AA:335:C:O5'	1:AA:1434:A:H4'	1.98	0.64
1:AA:1225:A:H2'	1:AA:1225:A:N3	2.11	0.64
1:AA:1296:C:O2'	13:AM:54:LEU:HD13	1.97	0.64
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.15	0.64
2:AT:111:PHE:C	2:AT:533:THR:HG21	2.18	0.64
12:AL:56:LYS:HD2	12:AL:94:ASN:OD1	1.98	0.64
18:B3:81:G:O2'	40:BU:75:ARG:HG3	1.97	0.64
18:B3:921:G:N3	41:BV:40:HIS:HB3	2.12	0.64
18:B3:1164:U:H5	30:BK:49:ALA:CA	2.10	0.64
18:B3:1231:A:N6	18:B3:2497:A:C2	2.66	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2087:C:H5'	33:BN:78:THR:CG2	2.22	0.64
18:B3:2101:A:N7	23:BD:71:ALA:CA	2.54	0.64
18:B3:2346:C:C4'	29:BJ:46:GLN:C	2.66	0.64
18:B3:2890:A:C2	38:BS:49:ILE:O	2.51	0.64
20:BA:8:GLN:HE21	20:BA:216:LEU:CD1	2.10	0.64
20:BA:49:PHE:HD2	20:BA:193:LEU:HD22	1.63	0.64
21:BB:3:VAL:CG1	21:BB:7:GLN:HG3	2.25	0.64
21:BB:47:ILE:CD1	47:B9:53:ILE:CD1	2.71	0.64
22:BC:52:MET:SD	22:BC:77:VAL:HG22	2.38	0.64
22:BC:214:ILE:HG21	22:BC:339:LYS:H	1.62	0.64
22:BC:231:ARG:CA	22:BC:269:ARG:HH12	2.09	0.64
23:BD:30:ARG:HA	23:BD:30:ARG:NE	2.12	0.64
23:BD:61:ALA:HB3	23:BD:83:ARG:HH12	1.63	0.64
23:BD:177:LEU:HB2	23:BD:222:PRO:HG2	1.80	0.64
24:BE:208:MET:CE	24:BE:210:GLU:HA	2.28	0.64
27:BH:87:LYS:HB3	27:BH:147:SER:HB3	1.79	0.64
28:BI:38:LYS:HD3	28:BI:40:LYS:HE3	1.80	0.64
29:BJ:19:ASN:OD1	29:BJ:66:VAL:HG13	1.97	0.64
29:BJ:53:VAL:HB	29:BJ:56:PHE:CB	2.22	0.64
30:BK:112:ILE:HG22	30:BK:132:ILE:CD1	2.27	0.64
33:BN:134:ARG:HD3	33:BN:135:ILE:N	2.09	0.64
36:BQ:43:LYS:HA	36:BQ:58:GLN:CG	2.28	0.64
37:BR:28:ASN:CG	37:BR:102:ILE:HG13	2.18	0.64
40:BU:55:GLU:HB3	40:BU:108:LYS:CB	2.28	0.64
47:B9:41:CYS:HB2	47:B9:43:LYS:CD	2.22	0.64
1:AA:353:A:H5'	1:AA:353:A:C8	2.31	0.63
1:AA:523:A:H61	12:AL:113:ALA:HB1	1.49	0.63
1:AA:554:C:H6	12:AL:45:GLY:HA2	1.58	0.63
1:AA:556:C:O2'	1:AA:557:G:H5'	1.97	0.63
1:AA:924:C:C4'	1:AA:1398:A:C5	2.81	0.63
1:AA:988:G:N1	1:AA:1015:A:C4	2.60	0.63
1:AA:1470:G:O2'	1:AA:1471:G:H5'	1.98	0.63
2:AT:463:LEU:N	2:AT:513:LYS:HZ2	1.95	0.63
5:AD:48:GLN:H	5:AD:48:GLN:NE2	1.97	0.63
5:AD:172:VAL:HG12	5:AD:176:ASN:OD1	1.98	0.63
10:AJ:26:LEU:HD22	10:AJ:38:SER:HB3	1.79	0.63
15:AO:82:GLU:HA	15:AO:85:GLU:OE2	1.98	0.63
18:B3:29:C:O3'	18:B3:1342:C:H5'	1.98	0.63
18:B3:264:G:C6	26:BG:137:HIS:HD2	2.16	0.63
18:B3:264:G:N2	26:BG:133:TYR:CE2	2.66	0.63
18:B3:349:U:O2'	18:B3:350:C:H5'	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:362:G:H2'	18:B3:363:A:C8	2.33	0.63
18:B3:472:A:OP1	45:BY:34:SER:O	2.16	0.63
18:B3:898:G:H5"	41:BV:25:ARG:HD2	1.78	0.63
18:B3:1182:U:H3'	30:BK:143:VAL:OXT	1.98	0.63
18:B3:1232:A:C2'	18:B3:2524:G:O3'	2.40	0.63
18:B3:2578:G:C4	18:B3:2801:A:H5'	2.33	0.63
19:B4:30:C:C2	24:BE:57:ASN:HB2	2.33	0.63
19:B4:30:C:O2	24:BE:57:ASN:OD1	2.12	0.63
19:B4:49:G:H5"	24:BE:99:TYR:HE2	1.63	0.63
19:B4:86:G:C5	25:BF:220:LYS:CG	2.79	0.63
22:BC:55:ILE:HB	22:BC:74:ALA:CB	2.12	0.63
22:BC:84:VAL:CG1	22:BC:201:THR:HG23	2.19	0.63
23:BD:7:VAL:HA	23:BD:150:VAL:HG23	1.80	0.63
24:BE:187:THR:HG1	24:BE:200:PHE:HD2	1.45	0.63
25:BF:117:LYS:HE2	25:BF:118:VAL:CG1	2.28	0.63
26:BG:117:GLU:HG3	26:BG:213:LEU:CD2	2.28	0.63
27:BH:134:ILE:HD12	27:BH:146:LEU:HD12	1.80	0.63
28:BI:76:MET:CE	28:BI:151:GLY:HA3	2.28	0.63
28:BI:99:ILE:CD1	28:BI:121:LYS:HD2	2.28	0.63
30:BK:104:ILE:HG13	30:BK:108:GLU:HB2	1.79	0.63
31:BL:146:ARG:H	31:BL:146:ARG:HH11	1.45	0.63
33:BN:21:LEU:O	33:BN:142:PRO:HA	1.99	0.63
33:BN:118:VAL:HG22	33:BN:119:ASN:H	1.63	0.63
40:BU:63:LYS:HD2	40:BU:63:LYS:H	1.62	0.63
41:BV:76:LYS:HA	41:BV:76:LYS:HZ3	1.63	0.63
44:BX:33:VAL:O	44:BX:34:GLN:HG2	1.98	0.63
45:BY:10:ARG:NE	45:BY:12:ASN:HD21	1.95	0.63
1:AA:57:G:C1'	1:AA:368:U:C2	2.72	0.63
1:AA:168:G:O2'	1:AA:169:C:H5'	1.97	0.63
1:AA:190(D):U:O2'	16:AQ:109:HIS:C	2.36	0.63
1:AA:239:U:C3'	1:AA:240:C:C2	2.78	0.63
1:AA:336:C:H6	1:AA:1433:A:H2'	1.64	0.63
1:AA:358:U:H4'	2:AT:390:ASP:OD1	1.97	0.63
1:AA:677:U:C5'	11:AK:127:LYS:NZ	2.37	0.63
1:AA:970:C:H5	9:AI:142:ARG:HH21	0.73	0.63
1:AA:970:C:H41	9:AI:142:ARG:NE	1.87	0.63
1:AA:1065:U:C4	1:AA:1189:C:N4	2.67	0.63
1:AA:1125:U:OP1	10:AJ:53:LYS:HE2	1.99	0.63
1:AA:1406:U:C2	1:AA:1518:A:H4'	2.22	0.63
2:AT:91:GLN:HE22	2:AT:343:PRO:HA	1.62	0.63
2:AT:137:VAL:C	2:AT:481:MET:CG	2.66	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:737:GLU:CG	18:B3:1199:A:N1	2.60	0.63
4:AC:178:GLN:H	4:AC:178:GLN:NE2	1.96	0.63
11:AK:47:VAL:HB	11:AK:52:ASP:CB	2.28	0.63
13:AM:15:LEU:CB	13:AM:66:LEU:HD11	2.27	0.63
17:AS:96:ILE:HG21	17:AS:120:SER:HB2	1.77	0.63
18:B3:107:U:O2	44:BX:56:THR:CG2	2.45	0.63
18:B3:148:A:O3'	45:BY:42:LYS:HA	1.98	0.63
18:B3:1002:G:C2'	28:BI:90:ARG:CZ	2.56	0.63
18:B3:1019:C:OP1	36:BQ:79:MET:HG2	1.97	0.63
18:B3:1163:G:H5"	30:BK:54:LYS:CD	2.23	0.63
18:B3:1182:U:C3'	30:BK:143:VAL:OXT	2.47	0.63
18:B3:1285:U:C3'	25:BF:155:ILE:HG12	2.28	0.63
18:B3:1351:G:H8	23:BD:108:TRP:HZ3	1.44	0.63
18:B3:1565:C:H5'	18:B3:2738:G:C8	2.31	0.63
18:B3:1687:C:H1'	45:BY:8:GLY:C	2.17	0.63
18:B3:1852:A:C4'	21:BB:236:LEU:HD23	2.25	0.63
18:B3:2295:G:C5'	36:BQ:5:HIS:C	2.58	0.63
18:B3:2335:C:C2	29:BJ:116:ASP:HB2	2.20	0.63
18:B3:2337:G:H1'	29:BJ:127:TYR:HA	0.68	0.63
18:B3:2347:C:O2	29:BJ:19:ASN:HB2	1.97	0.63
18:B3:2559:C:H5'	18:B3:2799:A:H4'	1.80	0.63
18:B3:2755:G:H5"	38:BS:38:SER:HB2	1.79	0.63
19:B4:48:C:H2'	24:BE:158:ARG:HG2	1.75	0.63
19:B4:92:G:H2'	19:B4:93:A:C8	2.33	0.63
20:BA:151:VAL:O	20:BA:160:LYS:CG	2.46	0.63
23:BD:125:ILE:HA	23:BD:128:THR:OG1	1.98	0.63
24:BE:43:LYS:HE2	24:BE:65:ILE:CD1	2.29	0.63
27:BH:18:VAL:HG21	27:BH:52:LEU:HD12	1.80	0.63
28:BI:7:ARG:H	28:BI:9:TYR:HD1	1.45	0.63
28:BI:53:VAL:HG22	28:BI:164:LYS:O	1.98	0.63
30:BK:19:GLY:CA	30:BK:50:THR:HG21	2.28	0.63
32:BM:117:VAL:HG22	32:BM:118:VAL:N	2.12	0.63
33:BN:41:THR:OG1	33:BN:109:THR:HG23	1.98	0.63
34:BO:127:LEU:O	34:BO:130:ARG:HG3	1.98	0.63
39:BT:109:VAL:HG22	39:BT:110:ASN:O	1.98	0.63
41:BV:5:THR:HG23	41:BV:7:THR:H	1.62	0.63
44:BX:17:LEU:O	44:BX:17:LEU:HD13	1.98	0.63
44:BX:24:LEU:N	44:BX:24:LEU:HD22	2.12	0.63
47:B9:32:GLN:NE2	47:B9:68:TYR:HB2	2.14	0.63
1:AA:33:A:H2	12:AL:47:SER:OG	1.77	0.63
1:AA:118:U:O4'	1:AA:122:G:H1'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:545:C:C5'	5:AD:66:ASP:HB2	2.11	0.63
1:AA:723:U:O2	1:AA:723:U:H2'	1.98	0.63
1:AA:921:U:P	1:AA:1081:G:H4'	2.37	0.63
1:AA:1175:G:H2'	9:AI:108:PHE:CD1	2.33	0.63
1:AA:1305:G:N1	13:AM:40:ARG:NH1	2.47	0.63
1:AA:1483:A:O4'	18:B3:1989:G:H1'	1.99	0.63
1:AA:1504:G:C8	1:AA:1508:G:H5'	2.33	0.63
3:AB:88:PHE:CD1	3:AB:174:TYR:HA	2.33	0.63
3:AB:99:GLY:C	3:AB:100:ARG:HD2	2.18	0.63
5:AD:72:GLU:OE2	5:AD:105:LEU:HD22	1.97	0.63
10:AJ:72:ASN:O	14:AN:20:CYS:CB	2.43	0.63
18:B3:26:U:C2	18:B3:1319:G:H2'	2.33	0.63
18:B3:166:A:N6	41:BV:28:PRO:CB	2.62	0.63
18:B3:657:G:O2'	23:BD:119:TYR:CD2	2.46	0.63
18:B3:784:A:OP1	21:BB:21:LEU:HD21	1.98	0.63
18:B3:905:C:C6	41:BV:11:ARG:CZ	2.81	0.63
18:B3:1098:A:P	25:BF:216:PRO:HA	2.37	0.63
18:B3:1428:C:C5'	33:BN:124:GLN:NE2	2.61	0.63
18:B3:1566:C:H4'	35:BP:56:VAL:HG11	0.64	0.63
18:B3:1855:G:N1	21:BB:150:PRO:CG	2.61	0.63
18:B3:2274:A:H2'	31:BL:80:TYR:CD2	2.32	0.63
18:B3:2350:G:O6	29:BJ:117:PRO:HD3	1.98	0.63
18:B3:2366:C:OP1	36:BQ:23:GLY:N	2.32	0.63
18:B3:2547:C:H5'	22:BC:246:ARG:HH12	1.60	0.63
18:B3:2566:A:H4'	27:BH:174:LYS:NZ	2.14	0.63
18:B3:2578:G:O2'	18:B3:2680:A:H4'	1.98	0.63
18:B3:2596:A:H5"	37:BR:73:VAL:HG13	1.73	0.63
18:B3:2712:G:O2'	37:BR:44:SER:N	2.30	0.63
18:B3:2837:U:C4'	22:BC:332:LYS:HE3	2.27	0.63
19:B4:30:C:C4	24:BE:57:ASN:CB	2.66	0.63
21:BB:29:ARG:HG2	21:BB:29:ARG:O	1.96	0.63
22:BC:143:ILE:O	22:BC:147:LEU:HD13	1.98	0.63
22:BC:232:TRP:HE1	22:BC:234:THR:HB	1.63	0.63
23:BD:103:LYS:HD3	23:BD:105:TRP:O	1.98	0.63
23:BD:125:ILE:HG13	23:BD:125:ILE:O	1.97	0.63
23:BD:134:VAL:HG21	23:BD:147:ILE:CG1	2.28	0.63
24:BE:33:ARG:CA	24:BE:36:LEU:HG	2.27	0.63
24:BE:61:ILE:HG13	24:BE:79:TYR:CD2	2.33	0.63
24:BE:64:ILE:HD11	24:BE:144:VAL:HG11	1.80	0.63
26:BG:148:LYS:C	26:BG:149:LEU:HD13	2.17	0.63
27:BH:27:VAL:CG1	27:BH:82:VAL:HB	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:47:LYS:H	27:BH:55:VAL:CG2	2.11	0.63
28:BI:26:VAL:HG11	28:BI:125:LEU:HD21	1.79	0.63
28:BI:38:LYS:HG2	28:BI:40:LYS:CE	2.22	0.63
28:BI:51:HIS:CG	28:BI:152:LEU:HD22	2.32	0.63
28:BI:72:ALA:HA	28:BI:154:ARG:NH1	2.13	0.63
28:BI:137:SER:O	28:BI:138:VAL:HG23	1.98	0.63
31:BL:21:LEU:O	31:BL:25:ARG:HB3	1.99	0.63
32:BM:84:ARG:CZ	32:BM:87:VAL:HG11	2.28	0.63
35:BP:106:ALA:O	35:BP:110:ASP:HB2	1.99	0.63
37:BR:28:ASN:HD22	37:BR:102:ILE:HG21	1.61	0.63
39:BT:62:ILE:HD12	39:BT:63:GLU:H	1.62	0.63
40:BU:56:VAL:HG12	40:BU:57:LEU:N	2.13	0.63
42:B0:105:ARG:HH12	42:B0:108:ILE:CG2	2.11	0.63
47:B9:36:TYR:N	47:B9:46:VAL:HG12	2.13	0.63
1:AA:31:G:C2	1:AA:47:C:OP1	2.52	0.63
1:AA:292:G:C2'	1:AA:609:A:N6	2.59	0.63
1:AA:677:U:O4	11:AK:121:PRO:HB2	1.97	0.63
1:AA:928:G:H5'	1:AA:1533:C:N4	2.10	0.63
2:AT:284:LEU:HD13	2:AT:324:MET:CE	2.28	0.63
5:AD:99:LEU:CD1	5:AD:101:VAL:HA	2.29	0.63
7:AG:110:VAL:HG21	9:AI:43:LEU:CG	2.28	0.63
8:AH:50:GLU:HG2	8:AH:61:VAL:HB	1.81	0.63
11:AK:63:ALA:HB3	11:AK:103:ALA:HB3	1.80	0.63
13:AM:132:ARG:HB3	13:AM:136:GLN:HE21	1.62	0.63
18:B3:74:A:OP1	44:BX:5:LYS:HD3	1.98	0.63
18:B3:108:U:C5	44:BX:60:GLU:C	2.71	0.63
18:B3:722:G:C1'	34:BO:141:ARG:HH21	2.11	0.63
18:B3:750:A:O4'	23:BD:116:GLU:CG	2.47	0.63
18:B3:813:C:O2'	35:BP:129:ASN:OD1	2.09	0.63
18:B3:921:G:N2	41:BV:40:HIS:HB3	2.14	0.63
18:B3:1370:G:N7	33:BN:27:ASN:CB	2.59	0.63
18:B3:1736:A:OP1	22:BC:243:ARG:CG	2.47	0.63
18:B3:1742:A:H4'	18:B3:2723:G:OP1	1.99	0.63
18:B3:1805:G:N2	18:B3:2883:A:C5	2.66	0.63
18:B3:1814:G:C2'	18:B3:2733:U:C4	2.76	0.63
18:B3:1830:C:N4	21:BB:180:LYS:CE	2.06	0.63
18:B3:1846:U:O3'	21:BB:180:LYS:HB2	1.77	0.63
18:B3:1885:A:HO2'	47:B9:19:SER:CB	2.09	0.63
18:B3:2018:A:C4	47:B9:17:TYR:OH	2.30	0.63
18:B3:2408:A:C1'	46:BZ:19:HIS:CE1	2.49	0.63
19:B4:5:G:H3'	24:BE:27:LYS:HZ2	1.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:117:G:N2	24:BE:69:ILE:O	2.30	0.63
21:BB:157:ILE:HD13	21:BB:158:SER:OG	1.98	0.63
22:BC:42:LEU:HD23	22:BC:45:PHE:CD2	2.34	0.63
22:BC:210:GLN:CG	22:BC:284:VAL:HG23	2.28	0.63
22:BC:232:TRP:CZ2	22:BC:264:ALA:HB1	2.33	0.63
23:BD:202:ARG:HD3	23:BD:202:ARG:N	2.13	0.63
24:BE:183:TRP:HA	24:BE:186:GLU:O	1.98	0.63
27:BH:18:VAL:HG21	27:BH:52:LEU:CD1	2.28	0.63
28:BI:31:ILE:HD13	28:BI:65:LEU:C	2.19	0.63
29:BJ:16:LEU:H	29:BJ:70:VAL:CG1	2.09	0.63
35:BP:10:ALA:HA	35:BP:41:ARG:HH21	1.60	0.63
35:BP:59:LYS:HB2	35:BP:59:LYS:HZ2	1.63	0.63
35:BP:84:ARG:HA	35:BP:87:ARG:HH21	1.64	0.63
37:BR:12:ARG:O	37:BR:86:ARG:HB3	1.98	0.63
37:BR:32:ARG:HG3	37:BR:64:LYS:O	1.98	0.63
40:BU:14:LYS:CA	40:BU:17:LYS:HG2	2.27	0.63
43:BW:11:TYR:CD2	43:BW:35:ILE:HG22	2.33	0.63
43:BW:27:ARG:HH11	43:BW:66:VAL:HG23	1.63	0.63
43:BW:43:MET:HA	43:BW:43:MET:CE	2.28	0.63
46:BZ:60:LYS:C	46:BZ:60:LYS:HD3	2.19	0.63
1:AA:130:A:O4'	1:AA:190(E):U:H5	1.77	0.63
1:AA:620:C:O5'	5:AD:129:ILE:HD12	1.98	0.63
1:AA:1003:G:H2'	1:AA:1003(A):G:C8	2.33	0.63
1:AA:1317:C:H5	17:AS:56:PHE:CZ	1.89	0.63
2:AT:365:ASN:O	2:AT:369:ILE:HG12	1.99	0.63
4:AC:100:GLN:HB3	4:AC:185:VAL:HG11	1.79	0.63
5:AD:101:VAL:CA	5:AD:191:ALA:H	2.11	0.63
9:AI:27:LEU:H	9:AI:27:LEU:HD23	1.63	0.63
11:AK:26:PHE:CB	11:AK:41:VAL:HG12	2.28	0.63
13:AM:17:LEU:HD23	13:AM:73:MET:SD	2.39	0.63
13:AM:38:VAL:HB	13:AM:84:TRP:HZ3	1.62	0.63
13:AM:100:THR:HG23	13:AM:105:VAL:HG13	1.80	0.63
18:B3:81:G:H2'	40:BU:75:ARG:HD2	1.81	0.63
18:B3:433:C:C4'	31:BL:149:TRP:CZ3	2.75	0.63
18:B3:524:A:C5'	33:BN:29:ARG:NH2	2.61	0.63
18:B3:795:G:H1'	18:B3:818:A:N6	2.14	0.63
18:B3:1874:U:OP1	21:BB:127:ARG:CG	2.29	0.63
18:B3:2333:G:H2'	29:BJ:114:LYS:CG	2.29	0.63
18:B3:2762:C:C2'	37:BR:83:LYS:HD2	2.29	0.63
18:B3:2796:U:H1'	27:BH:160:ASP:CB	2.28	0.63
18:B3:2837:U:C5	22:BC:333:ARG:HD3	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2841:A:N3	33:BN:68:ARG:CD	2.53	0.63
22:BC:88:VAL:H	22:BC:198:PHE:HE1	1.44	0.63
22:BC:302:LYS:HE3	22:BC:305:THR:H	1.64	0.63
22:BC:332:LYS:O	22:BC:333:ARG:HG3	1.98	0.63
23:BD:112:VAL:HG22	23:BD:113:ASN:O	1.98	0.63
26:BG:126:PRO:HG3	26:BG:131:VAL:CG1	2.23	0.63
29:BJ:11:LEU:HD21	29:BJ:153:THR:HG23	1.81	0.63
29:BJ:36:LEU:HD22	29:BJ:67:HIS:CE1	2.33	0.63
32:BM:5:VAL:HG11	32:BM:31:LYS:H	1.62	0.63
32:BM:72:PHE:CG	32:BM:77:ARG:HB3	2.34	0.63
32:BM:92:ALA:H	32:BM:95:LYS:NZ	1.96	0.63
33:BN:35:ILE:H	33:BN:35:ILE:CD1	2.11	0.63
33:BN:66:ILE:HB	33:BN:79:LYS:CD	2.28	0.63
35:BP:8:ARG:CZ	35:BP:18:LYS:HD3	2.27	0.63
35:BP:16:VAL:HB	35:BP:20:LYS:HD2	1.80	0.63
36:BQ:25:VAL:CG2	36:BQ:30:TYR:HE2	2.11	0.63
36:BQ:42:ILE:HG23	36:BQ:59:GLY:H	1.63	0.63
36:BQ:74:VAL:HB	36:BQ:91:LEU:CD2	2.29	0.63
37:BR:64:LYS:HE3	37:BR:65:GLY:N	2.12	0.63
37:BR:72:LYS:O	37:BR:73:VAL:HG22	1.98	0.63
37:BR:92:PHE:CD1	38:BS:20:LEU:HD11	2.33	0.63
37:BR:92:PHE:HD1	38:BS:20:LEU:HG	1.63	0.63
42:B0:112:ALA:HB1	42:B0:117:ILE:HD11	1.80	0.63
44:BX:36:LEU:HD12	44:BX:36:LEU:N	2.14	0.63
46:BZ:66:LYS:HA	46:BZ:86:ARG:NH1	2.12	0.63
1:AA:24:U:H3'	12:AL:39:LYS:CE	2.24	0.63
1:AA:66:G:H5"	1:AA:173:U:C4	2.33	0.63
1:AA:112:G:N2	1:AA:354:G:H5'	2.14	0.63
1:AA:124:G:H5"	1:AA:290:C:O2	1.97	0.63
1:AA:988:G:C1'	1:AA:1015:A:N7	2.60	0.63
1:AA:1106:G:O2'	4:AC:157:ILE:HD11	1.85	0.63
1:AA:1225:A:N3	17:AS:124:THR:HB	2.14	0.63
1:AA:1372:U:OP2	9:AI:13:LYS:NZ	2.31	0.63
3:AB:141:PRO:CD	8:AH:68:LEU:HD11	2.27	0.63
4:AC:19:GLU:OE2	4:AC:75:ARG:HB3	1.99	0.63
4:AC:40:VAL:HG22	4:AC:41:THR:O	1.99	0.63
5:AD:87:SER:N	5:AD:93:LEU:HD13	2.14	0.63
5:AD:179:ARG:HD2	5:AD:182:GLU:HG2	1.80	0.63
8:AH:45:TYR:OH	8:AH:129:TYR:HA	1.99	0.63
8:AH:124:ILE:HG13	8:AH:124:ILE:O	1.98	0.63
9:AI:29:LYS:HD2	9:AI:29:LYS:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:84:ALA:H	11:AK:118:THR:CG2	2.06	0.63
12:AL:136:TRP:HD1	12:AL:139:LYS:HB2	1.63	0.63
13:AM:117:LYS:CB	13:AM:128:PHE:HE1	2.09	0.63
13:AM:125:ILE:HG12	13:AM:129:TRP:NE1	2.13	0.63
17:AS:96:ILE:O	17:AS:102:PHE:HA	1.98	0.63
18:B3:493:U:C4'	33:BN:99:ALA:CB	2.55	0.63
18:B3:517:U:O2'	18:B3:1319:G:N2	2.30	0.63
18:B3:521:A:OP1	42:B0:26:HIS:CE1	2.51	0.63
18:B3:618:G:C4'	42:B0:46:PHE:N	2.32	0.63
18:B3:646:G:H2'	18:B3:647:U:C6	2.34	0.63
18:B3:783:C:H5"	21:BB:18:HIS:CE1	2.33	0.63
18:B3:1018:A:HO2'	36:BQ:60:LYS:HB3	1.62	0.63
18:B3:1019:C:O4'	36:BQ:61:THR:CG2	2.46	0.63
18:B3:1132:A:H2'	18:B3:2521:A:H4'	1.11	0.63
18:B3:1138:G:H21	27:BH:62:ARG:HH22	1.46	0.63
18:B3:1807:U:H1'	18:B3:2884:G:O5'	1.99	0.63
18:B3:2050:G:C2'	33:BN:84:ALA:CB	2.31	0.63
18:B3:2050:G:C1'	33:BN:84:ALA:HB3	2.26	0.63
18:B3:2596:A:O2'	37:BR:74:MET:HE3	1.96	0.63
18:B3:2796:U:H5'	27:BH:156:GLN:NE2	2.12	0.63
18:B3:2797:C:OP1	27:BH:127:PRO:HG2	1.71	0.63
21:BB:82:HIS:HD2	47:B9:62:THR:O	1.64	0.63
22:BC:176:HIS:C	22:BC:177:LEU:HD22	2.17	0.63
24:BE:116:ASP:HB3	24:BE:142:PHE:HA	1.80	0.63
25:BF:94:ILE:O	25:BF:94:ILE:HD12	1.98	0.63
26:BG:151:LEU:HD21	26:BG:185:LEU:HD13	1.80	0.63
26:BG:152:ILE:CD1	26:BG:162:VAL:HG21	2.28	0.63
27:BH:76:ASP:CA	27:BH:79:ILE:HD12	2.17	0.63
28:BI:108:ALA:O	28:BI:111:LEU:HB2	1.97	0.63
29:BJ:165:LYS:HG2	29:BJ:166:TYR:HD2	1.62	0.63
31:BL:112:LEU:HD13	31:BL:112:LEU:N	2.13	0.63
33:BN:59:PHE:HD1	33:BN:63:ASN:ND2	1.96	0.63
35:BP:18:LYS:O	35:BP:21:VAL:HG12	1.98	0.63
35:BP:21:VAL:HA	35:BP:51:LYS:CB	2.28	0.63
42:B0:17:PHE:HD2	42:B0:32:TRP:HB2	1.63	0.63
43:BW:82:GLU:O	43:BW:82:GLU:HG3	1.98	0.63
44:BX:4:VAL:HG23	44:BX:5:LYS:N	2.14	0.63
46:BZ:72:GLU:HA	46:BZ:79:ARG:CB	2.28	0.63
47:B9:22:ARG:HD2	47:B9:24:GLN:CG	2.29	0.63
1:AA:21:G:C5'	1:AA:884:U:C1'	2.71	0.63
1:AA:765:G:H1	1:AA:812:C:H2'	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:989:C:H5'	1:AA:1013:G:N9	2.13	0.63
1:AA:1150:U:O3'	10:AJ:59:PRO:O	2.09	0.63
1:AA:1308:U:H2'	13:AM:92:ILE:HA	1.81	0.63
3:AB:28:VAL:HG22	3:AB:29:GLN:N	2.14	0.63
3:AB:74:ALA:HA	3:AB:121:ILE:CG2	2.28	0.63
4:AC:39:ARG:NH2	10:AJ:110:PRO:HA	2.14	0.63
5:AD:101:VAL:C	5:AD:190:GLU:HA	2.18	0.63
5:AD:175:ARG:HD2	5:AD:195:ASP:OD2	1.98	0.63
10:AJ:97:VAL:HG22	10:AJ:98:GLN:H	1.63	0.63
12:AL:63:GLN:HB3	12:AL:64:PRO:HD2	1.79	0.63
12:AL:124:VAL:HB	12:AL:133:LEU:CD1	2.28	0.63
18:B3:196:G:OP2	31:BL:179:PHE:HE1	1.82	0.63
18:B3:487:G:O5'	40:BU:90:VAL:N	2.31	0.63
18:B3:499:G:H4'	33:BN:19:SER:HG	1.63	0.63
18:B3:1227:C:P	32:BM:48:ARG:NH2	2.71	0.63
18:B3:1438:G:N2	18:B3:1684:A:O2'	2.31	0.63
18:B3:1882:C:OP1	21:BB:199:ARG:O	2.16	0.63
18:B3:2037:C:H5	37:BR:49:LEU:HG	1.64	0.63
18:B3:2037:C:C5'	37:BR:47:ASN:O	2.47	0.63
18:B3:2222:C:H5'	20:BA:215:ARG:NH2	2.06	0.63
18:B3:2424:U:C2'	36:BQ:6:GLY:HA3	2.28	0.63
18:B3:2579:G:H5"	18:B3:2680:A:C8	2.32	0.63
18:B3:2737:C:C6	35:BP:61:ARG:CA	2.80	0.63
18:B3:2806:C:OP1	22:BC:342:TYR:CE2	2.52	0.63
20:BA:51:GLY:O	20:BA:54:LYS:C	2.37	0.63
22:BC:88:VAL:HG22	22:BC:157:VAL:HG22	1.79	0.63
22:BC:341:LEU:H	22:BC:341:LEU:CD2	2.11	0.63
23:BD:121:THR:O	23:BD:125:ILE:HG12	1.99	0.63
25:BF:83:VAL:HG22	25:BF:84:PHE:N	2.14	0.63
25:BF:105:LEU:HD22	25:BF:105:LEU:N	2.13	0.63
25:BF:167:ILE:HD13	25:BF:183:LEU:HD12	1.80	0.63
28:BI:36:LEU:HD22	28:BI:73:ASN:ND2	2.14	0.63
33:BN:81:ARG:H	33:BN:81:ARG:NH1	1.94	0.63
33:BN:147:LEU:HG	33:BN:148:VAL:N	2.14	0.63
34:BO:62:VAL:HB	34:BO:86:THR:O	1.99	0.63
35:BP:94:TRP:CZ2	35:BP:95:ILE:HG23	2.34	0.63
36:BQ:64:VAL:CB	36:BQ:74:VAL:HG22	2.29	0.63
36:BQ:76:ILE:HG12	36:BQ:78:LYS:O	1.99	0.63
37:BR:28:ASN:HA	37:BR:102:ILE:CD1	2.29	0.63
41:BV:62:LYS:HD2	41:BV:62:LYS:C	2.18	0.63
43:BW:26:LYS:O	43:BW:27:ARG:HG2	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:48:ARG:HD2	44:BX:49:LYS:H	1.63	0.63
46:BZ:62:LYS:HB2	46:BZ:62:LYS:NZ	2.13	0.63
46:BZ:66:LYS:HZ3	46:BZ:86:ARG:CD	2.12	0.63
1:AA:11:G:H2'	1:AA:525:C:O2'	1.99	0.63
1:AA:28:G:O2'	1:AA:296:U:P	2.57	0.63
1:AA:877:C:O2'	8:AH:3:SER:HB3	1.99	0.63
1:AA:924:C:C1'	1:AA:1398:A:C2	2.81	0.63
1:AA:1178:G:N1	9:AI:111:TYR:HE1	1.97	0.63
1:AA:1178:G:O5'	9:AI:106:LYS:HB2	1.77	0.63
4:AC:98:VAL:O	4:AC:102:GLU:HG3	1.97	0.63
6:AE:106:SER:O	6:AE:142:TYR:HA	1.97	0.63
6:AE:156:LYS:CG	8:AH:95:ALA:HB1	2.29	0.63
6:AE:212:ALA:O	6:AE:215:VAL:HG22	1.99	0.63
10:AJ:71:PRO:HG2	14:AN:36:ASN:CG	2.03	0.63
12:AL:59:ILE:CD1	12:AL:117:ILE:HB	2.28	0.63
18:B3:25:A:C4	18:B3:1320:U:H4'	2.33	0.63
18:B3:882:A:H5'	45:BY:2:LYS:N	2.14	0.63
18:B3:897:A:OP1	41:BV:26:LYS:CG	2.46	0.63
18:B3:1133:A:N1	18:B3:2501:G:C4	2.67	0.63
18:B3:1180:C:C2	30:BK:110:ILE:HD12	2.33	0.63
18:B3:1232:A:O2'	18:B3:2525:G:P	2.57	0.63
18:B3:1235:G:C8	32:BM:63:PHE:CE2	2.86	0.63
18:B3:1348:A:H5"	23:BD:35:HIS:CB	2.17	0.63
18:B3:1525:G:H5'	18:B3:1526:A:OP2	1.99	0.63
18:B3:1789:G:C5'	18:B3:2880:A:N7	2.62	0.63
18:B3:2214:A:H2'	20:BA:106:LYS:HG2	1.72	0.63
18:B3:2289:G:H21	18:B3:2291:A:H2	1.47	0.63
18:B3:2762:C:H5'	37:BR:18:PRO:HD3	1.81	0.63
19:B4:85:A:O3'	25:BF:218:LYS:CD	2.44	0.63
20:BA:154:THR:O	20:BA:159:LEU:C	2.34	0.63
21:BB:83:THR:OG1	47:B9:62:THR:CG2	2.47	0.63
21:BB:224:ILE:HG23	21:BB:225:SER:O	1.99	0.63
23:BD:5:VAL:CG1	23:BD:19:LEU:HA	2.26	0.63
23:BD:37:VAL:HG11	23:BD:112:VAL:HG21	1.80	0.63
23:BD:140:ARG:NH2	23:BD:178:LEU:HD13	2.13	0.63
23:BD:208:TYR:HA	23:BD:248:ILE:HG22	1.80	0.63
24:BE:20:PHE:HB3	24:BE:24:ARG:N	2.13	0.63
24:BE:136:GLU:OE2	24:BE:137:ASP:HB3	1.99	0.63
25:BF:122:THR:HG22	25:BF:123:LEU:N	2.14	0.63
27:BH:18:VAL:HG13	27:BH:26:LYS:CE	2.29	0.63
28:BI:104:SER:H	28:BI:112:GLN:HB2	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:83:LEU:HD11	29:BJ:90:LEU:CD1	2.28	0.63
31:BL:82:LYS:CE	46:BZ:49:PHE:CA	2.40	0.63
33:BN:101:ALA:CB	33:BN:106:LEU:HD21	2.29	0.63
35:BP:101:LEU:CD1	35:BP:134:LYS:HA	2.29	0.63
36:BQ:88:ARG:O	36:BQ:88:ARG:HG2	1.99	0.63
39:BT:104:VAL:HG11	39:BT:125:LEU:CD2	2.28	0.63
39:BT:106:VAL:HG12	39:BT:125:LEU:HD23	1.81	0.63
41:BV:69:LYS:HB2	41:BV:70:PRO:HA	1.80	0.63
42:B0:107:VAL:HG23	42:B0:108:ILE:N	2.13	0.63
43:BW:11:TYR:CE2	43:BW:35:ILE:HB	2.34	0.63
46:BZ:40:ARG:HG3	46:BZ:41:ARG:N	2.13	0.63
1:AA:112:G:H21	1:AA:354:G:H5'	1.63	0.63
1:AA:255:G:H4'	16:AQ:80:HIS:CB	2.29	0.63
1:AA:501:C:H2'	1:AA:502:G:C8	2.32	0.63
1:AA:1219:U:O3'	17:AS:59:LYS:HB2	1.98	0.63
3:AB:138:VAL:HG11	3:AB:140:ILE:CD1	2.27	0.63
5:AD:30:LEU:HD12	5:AD:67:PRO:CG	2.28	0.63
5:AD:92:LYS:HB2	5:AD:95:TYR:HE2	1.61	0.63
5:AD:173:ALA:HB3	5:AD:176:ASN:OD1	1.99	0.63
6:AE:75:LEU:HD12	6:AE:75:LEU:N	2.14	0.63
9:AI:29:LYS:HD2	9:AI:29:LYS:C	2.18	0.63
9:AI:62:ILE:HG22	9:AI:63:ASP:N	2.14	0.63
10:AJ:68:ARG:CB	14:AN:39:ARG:CB	2.44	0.63
13:AM:92:ILE:CG1	13:AM:123:ARG:HH22	1.99	0.63
15:AO:91:ILE:HD11	15:AO:92:LYS:HZ3	1.62	0.63
17:AS:76:VAL:HG12	17:AS:77:ARG:N	2.13	0.63
18:B3:73:C:P	44:BX:5:LYS:HA	2.36	0.63
18:B3:106:A:C5'	44:BX:60:GLU:CD	2.67	0.63
18:B3:1245:C:H42	32:BM:124:ARG:CD	2.12	0.63
18:B3:1652:C:O5'	21:BB:174:VAL:HG11	1.98	0.63
18:B3:1800:G:P	35:BP:69:LYS:HZ3	2.18	0.63
18:B3:1852:A:O2'	21:BB:237:ILE:HD12	1.99	0.63
18:B3:2019:A:H1'	47:B9:17:TYR:CE2	2.34	0.63
18:B3:2336:G:C1'	29:BJ:101:PHE:CE1	2.79	0.63
18:B3:2531:U:H3'	18:B3:2532:A:O4'	1.99	0.63
18:B3:2652:U:H1'	22:BC:257:ALA:CB	2.24	0.63
18:B3:2846:C:H5"	22:BC:174:LYS:HE3	1.78	0.63
19:B4:25:G:O2'	19:B4:26:C:H5'	1.98	0.63
20:BA:34:LEU:CD1	20:BA:36:VAL:HG23	2.28	0.63
22:BC:55:ILE:HD11	22:BC:355:LEU:HB2	1.79	0.63
22:BC:184:GLY:CA	22:BC:190:LYS:HG3	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:228:VAL:HG21	22:BC:246:ARG:HD3	1.80	0.63
22:BC:240:LYS:H	22:BC:242:HIS:H	1.46	0.63
23:BD:84:SER:HA	23:BD:97:ARG:HD3	1.78	0.63
23:BD:177:LEU:HD22	23:BD:178:LEU:N	2.13	0.63
25:BF:102:LEU:HD11	25:BF:129:ILE:HG21	1.79	0.63
26:BG:130:ALA:HB2	26:BG:202:VAL:HG23	1.80	0.63
27:BH:134:ILE:HD12	27:BH:146:LEU:CD1	2.29	0.63
28:BI:58:GLU:HB2	28:BI:128:ARG:CB	2.28	0.63
28:BI:102:MET:O	28:BI:103:LEU:HD22	1.99	0.63
28:BI:146:ASP:CG	28:BI:149:VAL:HB	2.19	0.63
31:BL:156:LYS:CE	31:BL:157:HIS:HD1	2.10	0.63
32:BM:118:VAL:HG22	32:BM:119:VAL:N	2.12	0.63
33:BN:59:PHE:HB2	33:BN:62:PHE:CB	2.29	0.63
33:BN:85:LYS:HE3	33:BN:85:LYS:CA	2.28	0.63
35:BP:80:ARG:HG2	35:BP:87:ARG:HD2	1.80	0.63
35:BP:92:VAL:HG23	35:BP:93:VAL:H	1.64	0.63
36:BQ:32:LYS:O	36:BQ:93:VAL:HG11	1.99	0.63
37:BR:31:ALA:HA	37:BR:32:ARG:NH1	2.13	0.63
37:BR:95:PHE:HZ	38:BS:23:ARG:CG	2.00	0.63
37:BR:114:ILE:HG13	37:BR:114:ILE:O	1.98	0.63
39:BT:59:TYR:OH	44:BX:55:LEU:HD13	1.96	0.63
41:BV:11:ARG:HG2	41:BV:12:GLY:N	2.14	0.63
41:BV:82:PRO:HD3	41:BV:120:VAL:HG22	1.81	0.63
42:B0:33:ARG:HB3	42:B0:33:ARG:CZ	2.26	0.63
44:BX:48:ARG:HD2	44:BX:49:LYS:N	2.14	0.63
1:AA:33:A:O2'	1:AA:364:A:H4'	1.99	0.62
1:AA:68:G:N7	1:AA:73:C:C5	2.67	0.62
1:AA:686:U:O2'	1:AA:687:A:H8	1.82	0.62
1:AA:1225:A:N7	17:AS:100:LYS:HE2	2.11	0.62
2:AT:81:MET:HG3	2:AT:339:VAL:HG11	1.81	0.62
2:AT:465:LYS:HZ3	2:AT:511:LEU:HG	0.66	0.62
2:AT:734:GLN:HE21	2:AT:767:THR:CG2	2.12	0.62
3:AB:30:VAL:O	3:AB:33:GLU:HB2	1.98	0.62
3:AB:75:ILE:HG23	3:AB:122:VAL:HA	1.80	0.62
12:AL:70:LYS:O	12:AL:87:VAL:HG22	1.99	0.62
17:AS:85:ILE:CG2	17:AS:116:LEU:HD11	2.28	0.62
17:AS:108:ARG:O	17:AS:111:MET:HB3	1.99	0.62
18:B3:178:U:OP1	45:BY:52:ALA:N	2.30	0.62
18:B3:471:G:H4'	45:BY:15:HIS:HE1	1.51	0.62
18:B3:745:G:N1	34:BO:90:ASP:O	2.31	0.62
18:B3:1134:G:H5'	18:B3:1229:C:C5'	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1154:A:C8	18:B3:1156:C:C6	2.87	0.62
18:B3:1180:C:O2	30:BK:106:LEU:C	2.37	0.62
18:B3:1306:U:H6	23:BD:194:ARG:NH2	1.89	0.62
18:B3:1447:U:N3	39:BT:70:THR:O	2.32	0.62
18:B3:1705:C:O2	18:B3:2735:U:O2'	2.17	0.62
18:B3:2764:C:OP1	37:BR:13:ILE:CA	2.39	0.62
19:B4:13:A:O2'	19:B4:14:G:H5"	1.98	0.62
19:B4:51:A:OP2	24:BE:92:LEU:HG	1.99	0.62
21:BB:31:LEU:HD12	21:BB:31:LEU:N	2.14	0.62
21:BB:187:LYS:HD3	21:BB:190:LEU:HD13	1.81	0.62
22:BC:118:TYR:HA	22:BC:132:TYR:HD1	1.63	0.62
24:BE:43:LYS:HE2	24:BE:65:ILE:HD13	1.79	0.62
24:BE:80:SER:HB3	24:BE:92:LEU:HD22	1.81	0.62
26:BG:111:GLU:O	26:BG:120:SER:HB3	1.98	0.62
27:BH:103:ILE:O	27:BH:103:ILE:HG13	1.98	0.62
27:BH:112:ILE:HD11	27:BH:128:VAL:CG2	2.30	0.62
28:BI:51:HIS:CB	28:BI:152:LEU:HD22	2.29	0.62
29:BJ:16:LEU:HD21	29:BJ:75:ALA:CB	2.28	0.62
29:BJ:132:ARG:N	29:BJ:133:PRO:HD3	2.14	0.62
31:BL:32:LYS:HE2	31:BL:32:LYS:CA	2.23	0.62
31:BL:60:ILE:HG22	31:BL:132:ILE:CA	2.27	0.62
31:BL:82:LYS:NZ	46:BZ:49:PHE:HB3	1.98	0.62
31:BL:83:PRO:HB2	31:BL:86:GLN:CB	2.29	0.62
31:BL:99:ALA:HB2	31:BL:168:LYS:HD3	1.81	0.62
31:BL:141:ILE:HG23	31:BL:142:ARG:N	2.13	0.62
32:BM:32:ILE:HG13	32:BM:33:VAL:HG22	1.79	0.62
37:BR:96:GLU:N	38:BS:22:VAL:O	2.32	0.62
39:BT:65:PRO:HA	39:BT:83:PHE:CB	2.29	0.62
41:BV:80:LEU:CD2	41:BV:86:ARG:HG3	2.28	0.62
43:BW:22:VAL:HG11	43:BW:25:LYS:CG	2.24	0.62
47:B9:55:THR:HG21	47:B9:62:THR:C	2.18	0.62
47:B9:70:VAL:HG13	47:B9:71:SER:N	2.13	0.62
1:AA:14:U:OP1	1:AA:914:A:C3'	2.41	0.62
1:AA:107:G:H2'	1:AA:108:G:H5'	1.81	0.62
1:AA:321:A:OP1	1:AA:1437:C:O4'	2.17	0.62
1:AA:400:C:H2'	1:AA:622:A:C4'	2.23	0.62
1:AA:677:U:H3	1:AA:713:G:H22	1.45	0.62
1:AA:1332:A:P	13:AM:40:ARG:HD2	2.39	0.62
2:AT:140:GLU:HG3	2:AT:188:ILE:HD13	1.80	0.62
2:AT:141:THR:CG2	2:AT:483:PHE:CD2	2.82	0.62
2:AT:213:SER:OG	2:AT:216:HIS:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:105:LYS:HG3	4:AC:172:ARG:HB3	1.79	0.62
4:AC:109:LEU:HD13	4:AC:175:LEU:O	1.99	0.62
7:AG:159:VAL:HG22	7:AG:160:ASP:N	2.14	0.62
8:AH:23:GLN:HG3	8:AH:61:VAL:HG11	1.81	0.62
8:AH:27:ARG:HG3	8:AH:28:PRO:CD	2.26	0.62
15:AO:94:ALA:HA	15:AO:117:ILE:CD1	2.30	0.62
16:AQ:108:VAL:HG11	16:AQ:138:VAL:CG1	2.29	0.62
18:B3:67:A:O5'	44:BX:55:LEU:HD21	1.85	0.62
18:B3:149:G:OP1	45:BY:42:LYS:CB	2.45	0.62
18:B3:537:G:O2'	42:B0:41:VAL:CG1	2.46	0.62
18:B3:719:C:H1'	34:BO:73:GLN:OE1	1.99	0.62
18:B3:905:C:N4	41:BV:9:LYS:HG3	2.13	0.62
18:B3:1054:G:C4	28:BI:111:LEU:CD1	2.82	0.62
18:B3:1343:C:N3	23:BD:186:LEU:O	2.21	0.62
18:B3:1450:C:O2'	18:B3:1493:A:H2'	1.99	0.62
18:B3:2346:C:C6	29:BJ:64:ILE:CG1	2.81	0.62
19:B4:8:G:O6	24:BE:21:ARG:CD	2.48	0.62
21:BB:45:LYS:O	21:BB:59:LYS:HB2	1.99	0.62
21:BB:199:ARG:NH1	21:BB:199:ARG:H	1.97	0.62
22:BC:46:LEU:HB3	22:BC:336:THR:O	1.99	0.62
22:BC:91:TYR:HB3	22:BC:99:ARG:NH2	2.14	0.62
22:BC:353:VAL:HG22	22:BC:354:SER:N	2.14	0.62
23:BD:25:PHE:HE1	23:BD:128:THR:HB	1.64	0.62
24:BE:21:ARG:HA	24:BE:21:ARG:HH11	1.64	0.62
25:BF:168:ILE:HD11	25:BF:183:LEU:CD2	2.29	0.62
26:BG:217:ILE:HD13	26:BG:218:ASP:H	1.63	0.62
28:BI:51:HIS:CA	28:BI:166:ILE:HD11	2.29	0.62
29:BJ:41:GLY:HA3	29:BJ:74:LYS:HZ3	1.63	0.62
34:BO:60:PRO:CG	34:BO:86:THR:H	2.12	0.62
34:BO:81:VAL:CG1	34:BO:138:LEU:HD22	2.28	0.62
37:BR:45:ARG:HG2	37:BR:46:LEU:H	1.64	0.62
40:BU:58:VAL:HG23	40:BU:103:LYS:HZ1	1.64	0.62
40:BU:72:SER:CB	40:BU:81:GLN:H	2.09	0.62
41:BV:126:ALA:N	41:BV:146:LEU:HG	2.14	0.62
42:B0:62:LYS:HD2	42:B0:63:THR:OG1	1.97	0.62
1:AA:190(D):U:O2'	16:AQ:109:HIS:CG	2.52	0.62
1:AA:190(E):U:C3'	16:AQ:109:HIS:CE1	2.44	0.62
1:AA:1219:U:O3'	17:AS:59:LYS:CA	2.46	0.62
1:AA:1347:G:O2'	1:AA:1348:U:P	2.57	0.62
1:AA:1483:A:C5'	18:B3:1988:C:O2'	2.47	0.62
3:AB:109:TYR:OH	3:AB:114:PHE:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:99:LEU:CD1	5:AD:106:GLU:HB2	2.23	0.62
6:AE:98:LYS:CE	6:AE:114:ILE:HD12	2.29	0.62
7:AG:83:LYS:HD3	7:AG:83:LYS:N	2.11	0.62
8:AH:109:ILE:O	8:AH:109:ILE:HG13	1.99	0.62
9:AI:98:GLU:HA	9:AI:105:LYS:CA	2.29	0.62
12:AL:59:ILE:HD11	12:AL:117:ILE:HD12	1.80	0.62
15:AO:117:ILE:HG13	15:AO:118:GLU:N	2.12	0.62
15:AO:118:GLU:HG3	15:AO:119:SER:N	2.13	0.62
18:B3:106:A:O2'	44:BX:57:VAL:C	2.37	0.62
18:B3:500:G:C4'	33:BN:17:ARG:N	2.53	0.62
18:B3:538:C:H5"	18:B3:539:G:C8	2.34	0.62
18:B3:541:C:C5'	42:B0:15:LYS:H	2.11	0.62
18:B3:553:G:C5'	42:B0:69:SER:OG	2.47	0.62
18:B3:773:A:O2'	45:BY:48:TRP:HZ3	1.80	0.62
18:B3:890:C:O2	45:BY:48:TRP:C	2.37	0.62
18:B3:944:G:O2'	25:BF:125:LEU:CD2	2.47	0.62
18:B3:1181:A:C3'	30:BK:106:LEU:HA	2.06	0.62
18:B3:1343:C:C2	23:BD:188:ALA:CA	2.82	0.62
18:B3:1401:G:H5"	43:BW:62:GLY:O	1.98	0.62
18:B3:1653:A:N6	21:BB:183:ARG:NH2	2.47	0.62
18:B3:1732:A:H1'	18:B3:2840:A:OP1	2.00	0.62
18:B3:1766:U:O2	18:B3:1778:A:H5'	1.98	0.62
18:B3:2081:A:H4'	32:BM:69:PRO:HB2	1.81	0.62
18:B3:2266:A:H2'	18:B3:2267:G:C8	2.35	0.62
18:B3:2387:U:H2'	18:B3:2388:C:C6	2.35	0.62
18:B3:2578:G:N9	18:B3:2801:A:C5'	2.62	0.62
18:B3:2819:C:H5"	22:BC:101:LEU:CD2	2.29	0.62
18:B3:2821:C:H5'	22:BC:104:VAL:N	2.12	0.62
19:B4:20:G:O2'	19:B4:21:G:H5'	1.99	0.62
19:B4:47:A:C5'	24:BE:153:THR:HA	2.29	0.62
19:B4:55:U:H4'	19:B4:56:A:O5'	1.99	0.62
20:BA:204:LEU:N	20:BA:204:LEU:HD22	2.15	0.62
22:BC:216:ALA:HB3	22:BC:279:HIS:NE2	2.14	0.62
22:BC:217:ILE:HD13	22:BC:217:ILE:N	2.14	0.62
23:BD:5:VAL:HG21	23:BD:150:VAL:HG11	1.81	0.62
23:BD:191:GLY:HA3	23:BD:197:ARG:CD	2.29	0.62
24:BE:144:VAL:CG2	24:BE:171:LEU:HD21	2.30	0.62
25:BF:86:VAL:O	25:BF:133:VAL:HB	2.00	0.62
25:BF:168:ILE:HG23	25:BF:175:TYR:CB	2.29	0.62
27:BH:140:VAL:HG23	27:BH:141:LYS:N	2.14	0.62
29:BJ:31:ARG:NE	29:BJ:34:LYS:HE2	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:87:GLU:HG2	29:BJ:90:LEU:CG	2.18	0.62
32:BM:39:GLU:HA	32:BM:137:LEU:CD2	2.26	0.62
35:BP:22:TRP:HE1	35:BP:49:ILE:CD1	2.11	0.62
37:BR:91:VAL:HG23	38:BS:16:GLY:O	1.97	0.62
38:BS:39:LEU:CD2	38:BS:44:LYS:HB3	2.28	0.62
38:BS:52:THR:CB	38:BS:55:PHE:HB2	2.26	0.62
39:BT:108:LYS:HB2	39:BT:124:ARG:HH22	1.64	0.62
41:BV:95:LYS:HG3	41:BV:96:GLU:H	1.64	0.62
42:B0:101:SER:CB	42:B0:105:ARG:HG2	2.30	0.62
43:BW:76:ARG:HA	43:BW:82:GLU:CD	2.18	0.62
1:AA:11:G:C2'	1:AA:525:C:O2'	2.48	0.62
1:AA:359:U:H6	2:AT:391:LYS:HG3	1.60	0.62
1:AA:404:U:O2'	5:AD:23:ARG:NH1	2.33	0.62
1:AA:405:U:OP1	5:AD:23:ARG:NH2	2.33	0.62
1:AA:428:G:H4'	1:AA:429:U:O5'	1.98	0.62
1:AA:551:U:H2'	1:AA:552:U:H6	1.64	0.62
1:AA:1115:C:C5'	10:AJ:85:ARG:HH22	2.08	0.62
1:AA:1221:G:P	17:AS:81:ARG:CA	2.88	0.62
1:AA:1278:U:H5"	1:AA:1279:A:O4'	1.99	0.62
3:AB:139:ASN:N	8:AH:69:ASN:O	2.32	0.62
4:AC:159:SER:HB2	4:AC:167:ILE:CD1	2.28	0.62
5:AD:39:LYS:HG3	5:AD:40:LYS:N	2.09	0.62
5:AD:54:ARG:HG3	5:AD:54:ARG:O	1.99	0.62
7:AG:165:ARG:HA	7:AG:168:ASN:OD1	2.00	0.62
9:AI:99:GLN:HB3	9:AI:114:THR:CA	2.29	0.62
18:B3:215:A:O2'	41:BV:58:ARG:NH2	2.33	0.62
18:B3:517:U:O2'	18:B3:1319:G:N1	2.32	0.62
18:B3:518:G:O5'	18:B3:1338:U:O2'	0.71	0.62
18:B3:524:A:H5"	33:BN:29:ARG:NH2	2.14	0.62
18:B3:1217:G:H2'	18:B3:1218:U:C6	2.33	0.62
18:B3:1245:C:H42	32:BM:124:ARG:HD2	1.64	0.62
18:B3:1714:C:C5'	18:B3:2745:C:O4'	2.46	0.62
18:B3:1853:C:H4'	21:BB:237:ILE:HB	1.80	0.62
18:B3:2489:G:O3'	18:B3:2490:A:C8	2.51	0.62
20:BA:55:LEU:HD12	20:BA:55:LEU:N	2.14	0.62
20:BA:56:PRO:HB2	20:BA:155:ILE:CD1	2.01	0.62
21:BB:4:ILE:HG23	21:BB:208:HIS:CD2	2.34	0.62
22:BC:69:ARG:HD3	37:BR:89:ASP:CG	2.17	0.62
22:BC:92:VAL:CG2	22:BC:101:LEU:HD11	2.25	0.62
22:BC:228:VAL:HB	22:BC:232:TRP:HZ2	1.65	0.62
22:BC:261:TRP:HE3	22:BC:263:VAL:H	1.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:19:LEU:H	23:BD:19:LEU:HD23	1.62	0.62
23:BD:137:ARG:CD	23:BD:243:LEU:H	2.11	0.62
23:BD:155:LEU:HD22	23:BD:158:ILE:HD12	1.82	0.62
23:BD:177:LEU:HD13	23:BD:177:LEU:H	1.63	0.62
23:BD:177:LEU:O	23:BD:180:VAL:HG23	1.98	0.62
24:BE:47:PRO:O	24:BE:48:LYS:HG3	1.98	0.62
26:BG:165:LEU:O	26:BG:169:CYS:HB3	2.00	0.62
27:BH:91:ARG:HG2	27:BH:142:ASP:O	1.99	0.62
28:BI:6:ALA:HB1	28:BI:10:ARG:NE	2.14	0.62
28:BI:35:ASP:HA	28:BI:88:ARG:CZ	2.29	0.62
28:BI:51:HIS:N	28:BI:166:ILE:HD11	2.14	0.62
31:BL:112:LEU:HD13	31:BL:112:LEU:H	1.63	0.62
31:BL:188:LYS:CG	31:BL:189:THR:H	2.11	0.62
34:BO:62:VAL:HG11	34:BO:87:VAL:C	2.20	0.62
35:BP:14:VAL:CG1	35:BP:16:VAL:HG22	2.30	0.62
35:BP:109:ARG:HG2	35:BP:109:ARG:NH1	2.14	0.62
36:BQ:20:ARG:HG2	36:BQ:21:LYS:N	2.14	0.62
36:BQ:75:ILE:H	36:BQ:91:LEU:HD23	1.62	0.62
39:BT:104:VAL:HG22	39:BT:129:TYR:CD2	2.34	0.62
41:BV:25:ARG:HG2	41:BV:27:HIS:HD2	1.62	0.62
41:BV:127:ARG:HG2	41:BV:128:PHE:N	2.13	0.62
43:BW:61:ARG:HG2	43:BW:62:GLY:H	1.62	0.62
47:B9:32:GLN:OE1	47:B9:69:THR:HG22	2.00	0.62
1:AA:113:G:H1'	1:AA:354:G:H5'	1.81	0.62
1:AA:129:U:C2'	16:AQ:128:ARG:HA	2.26	0.62
1:AA:363:A:N6	12:AL:43:PHE:HD1	1.97	0.62
1:AA:518:C:N3	12:AL:65:ASN:HA	2.14	0.62
1:AA:996:A:H2'	1:AA:997:U:C6	2.35	0.62
1:AA:1153:C:H2'	1:AA:1154:G:H8	1.63	0.62
1:AA:1296:C:O2'	13:AM:54:LEU:HB2	1.99	0.62
1:AA:1299:A:H4'	13:AM:57:ARG:NH1	2.13	0.62
2:AT:186:ASN:HB3	2:AT:201:GLN:NE2	2.13	0.62
3:AB:73:VAL:CG2	3:AB:117:PRO:HB3	2.24	0.62
3:AB:81:GLY:HA2	3:AB:169:ILE:HD12	1.79	0.62
8:AH:13:ILE:HD11	8:AH:26:ILE:CD1	2.26	0.62
9:AI:51:LEU:HD22	9:AI:58:LYS:CE	2.29	0.62
10:AJ:69:LYS:CE	14:AN:39:ARG:HH12	2.12	0.62
13:AM:15:LEU:HG	13:AM:16:ARG:N	2.11	0.62
13:AM:91:ASP:O	13:AM:109:LEU:CD1	2.42	0.62
15:AO:74:LEU:HA	15:AO:89:TYR:CE1	2.35	0.62
17:AS:107:ILE:O	17:AS:107:ILE:HG13	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:106:A:H5"	44:BX:60:GLU:CD	2.20	0.62
18:B3:372:A:H2'	18:B3:373:G:H8	1.64	0.62
18:B3:449:A:P	18:B3:1306:U:C1'	2.86	0.62
18:B3:944:G:H5"	25:BF:97:LYS:CG	2.28	0.62
18:B3:1805:G:C8	18:B3:2875:A:H1'	2.31	0.62
18:B3:2123:A:P	31:BL:88:VAL:HG23	2.40	0.62
19:B4:48:C:O3'	24:BE:99:TYR:OH	2.16	0.62
20:BA:54:LYS:HD2	20:BA:158:GLN:HB2	1.81	0.62
21:BB:110:THR:HG23	21:BB:112:VAL:CG2	2.28	0.62
22:BC:201:THR:HG22	22:BC:202:VAL:N	2.15	0.62
22:BC:261:TRP:HE3	22:BC:263:VAL:N	1.97	0.62
23:BD:196:ARG:O	23:BD:196:ARG:HG2	1.97	0.62
23:BD:256:LYS:HB3	23:BD:259:GLN:CB	2.30	0.62
24:BE:160:PHE:O	24:BE:163:LEU:HB3	1.98	0.62
25:BF:135:TYR:O	25:BF:235:ILE:HG13	1.99	0.62
25:BF:178:LEU:CB	25:BF:180:ILE:HD11	2.28	0.62
27:BH:9:GLN:CA	27:BH:54:LYS:HG2	2.29	0.62
32:BM:21:VAL:O	32:BM:24:LYS:HB2	1.99	0.62
33:BN:25:PHE:CG	33:BN:28:THR:HG21	2.35	0.62
33:BN:29:ARG:HH12	33:BN:61:ARG:HH12	1.47	0.62
33:BN:58:PRO:HG2	33:BN:75:PHE:HE1	1.65	0.62
33:BN:59:PHE:HD2	33:BN:81:ARG:HD3	1.61	0.62
35:BP:94:TRP:CZ3	35:BP:95:ILE:HG23	2.34	0.62
36:BQ:75:ILE:HG23	36:BQ:76:ILE:N	2.15	0.62
37:BR:80:ARG:HA	37:BR:80:ARG:NE	2.15	0.62
40:BU:35:LEU:HA	40:BU:106:ILE:HG13	1.81	0.62
41:BV:132:LEU:CD2	41:BV:132:LEU:H	2.12	0.62
43:BW:7:VAL:O	43:BW:74:ILE:HG22	1.99	0.62
45:BY:33:CYS:HA	45:BY:38:TYR:HE1	1.62	0.62
45:BY:37:GLY:N	45:BY:44:ARG:HG3	2.14	0.62
46:BZ:2:ASN:CB	46:BZ:91:GLU:HG2	2.21	0.62
1:AA:254:G:C5'	16:AQ:79:MET:HE1	2.29	0.62
1:AA:988:G:C4	1:AA:1015:A:N7	2.67	0.62
1:AA:1219:U:H4'	17:AS:58:LYS:O	1.42	0.62
1:AA:1350:A:H2	7:AG:103:ASN:O	1.83	0.62
2:AT:757:GLU:CB	18:B3:1171:A:H1'	2.27	0.62
4:AC:6:LYS:CE	4:AC:7:LYS:H	2.12	0.62
4:AC:105:LYS:HB3	4:AC:174:VAL:CG2	2.30	0.62
6:AE:206:LEU:HD22	6:AE:206:LEU:N	2.15	0.62
8:AH:23:GLN:HG3	8:AH:61:VAL:HG13	1.80	0.62
8:AH:82:ILE:HD13	8:AH:82:ILE:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:617:C:O2'	42:B0:45:ARG:HG3	1.99	0.62
18:B3:671:A:O2'	18:B3:672:G:H2'	2.00	0.62
18:B3:906:C:N3	18:B3:1328:A:N7	2.38	0.62
18:B3:1019:C:C4'	36:BQ:61:THR:HG22	2.29	0.62
18:B3:1154:A:C5	18:B3:1156:C:H1'	2.34	0.62
18:B3:1287:A:N6	25:BF:201:LEU:HD13	2.15	0.62
18:B3:1304:U:C2'	23:BD:194:ARG:HB2	2.24	0.62
18:B3:1993:C:P	37:BR:71:LYS:HA	2.40	0.62
18:B3:2349:G:C4'	29:BJ:15:LYS:NZ	2.42	0.62
18:B3:2559:C:O4'	18:B3:2799:A:C4'	2.47	0.62
18:B3:2720:C:C5'	38:BS:33:ASN:ND2	2.24	0.62
18:B3:2849:U:O2'	18:B3:2850:C:OP2	2.16	0.62
20:BA:23:THR:HG23	20:BA:25:LYS:N	2.15	0.62
20:BA:51:GLY:O	20:BA:54:LYS:CA	2.48	0.62
20:BA:195:LYS:HD2	20:BA:195:LYS:C	2.20	0.62
21:BB:116:GLU:CD	21:BB:162:ARG:HG3	2.19	0.62
24:BE:144:VAL:O	24:BE:173:VAL:HG12	1.99	0.62
25:BF:151:GLY:HA3	25:BF:162:LEU:CD2	2.29	0.62
27:BH:20:ILE:HD12	27:BH:25:VAL:CB	2.29	0.62
27:BH:46:THR:HG22	27:BH:55:VAL:H	1.65	0.62
27:BH:128:VAL:HG13	27:BH:157:ASN:ND2	2.13	0.62
28:BI:59:GLN:HB2	28:BI:128:ARG:CG	2.29	0.62
29:BJ:71:ARG:CZ	29:BJ:75:ALA:H	2.12	0.62
31:BL:175:LYS:HA	31:BL:175:LYS:HZ1	1.65	0.62
32:BM:98:LEU:HA	32:BM:101:LEU:HD11	1.80	0.62
32:BM:125:VAL:CA	32:BM:128:LEU:HD11	2.07	0.62
33:BN:23:VAL:HG22	33:BN:24:SER:N	2.13	0.62
36:BQ:48:ILE:HD13	36:BQ:48:ILE:O	1.99	0.62
38:BS:5:ILE:HD13	38:BS:5:ILE:N	2.15	0.62
39:BT:74:LYS:HB3	39:BT:81:LEU:CD1	2.29	0.62
40:BU:50:ILE:HD12	40:BU:101:PRO:HG3	1.81	0.62
1:AA:190(E):U:O2	16:AQ:131:SER:HB3	1.82	0.62
1:AA:562:C:O2	12:AL:31:LYS:O	2.18	0.62
1:AA:615:C:P	5:AD:107:ARG:HH12	2.21	0.62
1:AA:764:C:H4'	15:AO:108:LYS:CG	2.30	0.62
1:AA:1240:U:C5'	7:AG:188:THR:CB	2.66	0.62
2:AT:103:ILE:HD11	2:AT:453:ILE:CD1	2.29	0.62
2:AT:464:LEU:HD13	2:AT:510:ARG:CA	2.30	0.62
5:AD:44:ARG:HG3	5:AD:45:ILE:HG23	1.81	0.62
5:AD:85:VAL:HG11	5:AD:104:PHE:CE2	2.34	0.62
6:AE:112:LEU:HD13	6:AE:113:GLY:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:47:VAL:HG13	9:AI:81:ARG:HA	1.81	0.62
10:AJ:32:LYS:HE2	10:AJ:35:GLU:HB2	1.80	0.62
10:AJ:37:VAL:HG23	10:AJ:38:SER:N	2.14	0.62
10:AJ:78:THR:CG2	14:AN:39:ARG:CG	2.72	0.62
10:AJ:97:VAL:HG22	10:AJ:98:GLN:N	2.15	0.62
11:AK:75:ILE:CG2	11:AK:109:LEU:HD21	2.25	0.62
14:AN:20:CYS:O	14:AN:24:SER:HA	1.98	0.62
18:B3:10:U:H1'	18:B3:532:A:H62	1.63	0.62
18:B3:350:C:O2'	18:B3:351:G:H5'	1.99	0.62
18:B3:450:C:H3'	18:B3:1304:U:C2'	2.25	0.62
18:B3:487:G:O5'	40:BU:90:VAL:CA	2.47	0.62
18:B3:619:U:C5'	42:B0:41:VAL:HA	2.19	0.62
18:B3:621:C:H5"	42:B0:35:GLN:C	2.14	0.62
18:B3:621:C:P	42:B0:40:SER:CB	2.87	0.62
18:B3:944:G:H1'	25:BF:100:LYS:HZ1	1.65	0.62
18:B3:952:G:H4'	36:BQ:14:MET:HG2	1.82	0.62
18:B3:1127:C:O2'	18:B3:2492:U:H5"	1.99	0.62
18:B3:1180:C:O2	30:BK:107:ASP:HA	2.00	0.62
18:B3:1214:G:HO2'	18:B3:1215:A:H8	1.48	0.62
18:B3:1744:G:O3'	37:BR:22:ILE:CB	2.45	0.62
18:B3:1745:G:OP1	37:BR:22:ILE:CG2	2.47	0.62
18:B3:2253:G:H2'	18:B3:2254:G:H8	1.63	0.62
18:B3:2413:A:C4'	24:BE:175:HIS:O	2.47	0.62
18:B3:2735:U:P	35:BP:79:LYS:HD2	2.39	0.62
18:B3:2897:C:O3'	22:BC:312:HIS:HA	1.99	0.62
19:B4:8:G:N7	24:BE:21:ARG:HG2	2.14	0.62
19:B4:48:C:O3'	24:BE:158:ARG:HG2	2.00	0.62
21:BB:232:GLN:HG3	21:BB:233:LYS:H	1.65	0.62
21:BB:242:THR:HG22	21:BB:243:GLY:N	2.15	0.62
23:BD:149:LEU:HD23	23:BD:248:ILE:CB	2.29	0.62
24:BE:51:LEU:HB2	24:BE:144:VAL:HG11	1.80	0.62
24:BE:95:TRP:O	24:BE:98:ALA:HB3	2.00	0.62
25:BF:182:ASP:O	25:BF:185:HIS:HB3	2.00	0.62
27:BH:34:LEU:N	27:BH:34:LEU:HD22	2.15	0.62
27:BH:112:ILE:HG22	27:BH:125:ASN:CG	2.20	0.62
28:BI:60:LEU:C	28:BI:126:ALA:HB1	2.20	0.62
30:BK:85:LEU:HD13	30:BK:103:ASN:N	2.14	0.62
31:BL:48:ARG:N	31:BL:52:TYR:HB3	2.14	0.62
31:BL:70:ARG:HG2	31:BL:71:LYS:N	2.11	0.62
33:BN:25:PHE:CE2	33:BN:118:VAL:HG23	2.34	0.62
33:BN:59:PHE:HB2	33:BN:62:PHE:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:24:VAL:HG13	34:BO:25:TYR:N	2.15	0.62
35:BP:9:LEU:HD22	35:BP:12:SER:OG	1.99	0.62
37:BR:37:ILE:CG2	37:BR:59:MET:HB2	2.29	0.62
37:BR:64:LYS:CD	37:BR:65:GLY:H	2.11	0.62
39:BT:84:GLN:HG2	39:BT:120:LYS:C	2.20	0.62
43:BW:43:MET:HA	43:BW:43:MET:HE2	1.80	0.62
1:AA:6:G:H2'	6:AE:196:TYR:CE2	2.35	0.62
1:AA:144:G:C5	1:AA:199:G:C4'	2.81	0.62
1:AA:552:U:C5'	12:AL:107:PHE:N	2.62	0.62
1:AA:642:A:N7	8:AH:106:SER:HA	2.14	0.62
1:AA:754:C:C1'	15:AO:127:TYR:CE2	2.82	0.62
1:AA:828:A:O2'	3:AB:29:GLN:OE1	2.17	0.62
1:AA:1299:A:N7	13:AM:55:HIS:HA	2.15	0.62
2:AT:813:SER:O	2:AT:817:GLU:HG3	1.98	0.62
2:AT:836:GLN:H	2:AT:836:GLN:HE21	1.45	0.62
6:AE:75:LEU:HD22	6:AE:132:LYS:HE2	1.81	0.62
6:AE:86:GLN:CA	6:AE:95:THR:HG22	2.28	0.62
6:AE:115:LYS:CE	6:AE:130:ILE:HB	2.30	0.62
9:AI:35:ILE:O	9:AI:39:GLU:HG2	2.00	0.62
9:AI:99:GLN:H	9:AI:105:LYS:CA	2.13	0.62
10:AJ:33:GLN:O	10:AJ:37:VAL:HG13	1.99	0.62
18:B3:432:G:O2'	18:B3:433:C:H5'	1.99	0.62
18:B3:699:C:OP2	41:BV:114:LYS:CA	2.48	0.62
18:B3:999:C:H2'	18:B3:1000:C:C6	2.35	0.62
18:B3:1115:U:H4'	18:B3:1223:G:H21	1.63	0.62
18:B3:1133:A:H2	18:B3:2501:G:C5	2.18	0.62
18:B3:1164:U:OP2	30:BK:20:GLY:CA	2.42	0.62
18:B3:1167:G:OP2	30:BK:48:LYS:CD	2.14	0.62
18:B3:1508:C:C5'	39:BT:77:ASP:C	2.66	0.62
18:B3:1565:C:O2'	35:BP:59:LYS:HD2	1.99	0.62
18:B3:1816:C:C5	18:B3:2746:A:C2	2.87	0.62
18:B3:1875:A:H3'	21:BB:150:PRO:HB3	1.82	0.62
18:B3:2251:G:C2	21:BB:33:TYR:CD1	2.57	0.62
18:B3:2461:U:O5'	46:BZ:60:LYS:HG3	1.94	0.62
18:B3:2660:G:P	33:BN:71:GLN:HE21	2.18	0.62
18:B3:2668:G:O2'	22:BC:128:ALA:HB1	2.00	0.62
18:B3:2841:A:H2	33:BN:68:ARG:CB	2.13	0.62
21:BB:134:ILE:HG13	21:BB:148:ARG:CG	2.30	0.62
23:BD:221:VAL:HG12	23:BD:224:VAL:H	1.65	0.62
25:BF:109:ARG:CG	25:BF:112:SER:HB2	2.29	0.62
25:BF:231:ARG:HB2	25:BF:234:PHE:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:126:VAL:HG23	27:BH:127:PRO:HD3	1.81	0.62
27:BH:167:VAL:HG21	27:BH:170:LYS:HE3	1.81	0.62
28:BI:50:VAL:HG22	28:BI:51:HIS:N	2.13	0.62
31:BL:183:LYS:HA	31:BL:183:LYS:CE	2.26	0.62
33:BN:58:PRO:HA	33:BN:80:ALA:CB	2.27	0.62
34:BO:62:VAL:HG13	34:BO:63:SER:N	2.11	0.62
36:BQ:45:ASN:HD21	36:BQ:94:GLU:CG	2.07	0.62
36:BQ:57:TYR:HD2	36:BQ:76:ILE:CG2	2.11	0.62
36:BQ:91:LEU:HD12	36:BQ:91:LEU:O	1.99	0.62
42:B0:49:ASN:O	42:B0:50:ILE:HD13	1.95	0.62
47:B9:22:ARG:HD2	47:B9:24:GLN:HB3	1.81	0.62
1:AA:130:A:OP2	1:AA:190(E):U:OP2	2.18	0.62
1:AA:619:U:C3'	5:AD:129:ILE:CD1	2.67	0.62
1:AA:1319:A:OP1	17:AS:84:ILE:CB	2.47	0.62
1:AA:1406:U:O2	1:AA:1517:G:H2'	2.00	0.62
2:AT:685:ARG:NE	2:AT:687:ASN:HD21	1.92	0.62
2:AT:829:LYS:HE3	2:AT:830:GLU:N	2.15	0.62
4:AC:92:ASP:OD2	4:AC:95:LEU:HG	2.00	0.62
8:AH:52:ILE:CG2	8:AH:61:VAL:HG23	2.29	0.62
18:B3:920:C:O5'	41:BV:39:HIS:O	2.15	0.62
18:B3:1056:U:P	28:BI:110:ARG:N	2.64	0.62
18:B3:1182:U:C1'	30:BK:105:GLN:HA	2.29	0.62
18:B3:1317:A:OP1	42:B0:101:SER:HA	2.00	0.62
18:B3:1335:C:P	42:B0:100:ILE:HD12	2.39	0.62
18:B3:1348:A:C5'	23:BD:35:HIS:HB2	2.17	0.62
18:B3:1448:A:H5'	18:B3:1507:C:OP1	1.96	0.62
18:B3:1675:C:C6	39:BT:112:LEU:C	2.67	0.62
18:B3:1694:G:H21	45:BY:5:PRO:N	1.95	0.62
18:B3:1814:G:H8	18:B3:2731:G:N3	1.98	0.62
18:B3:1900:A:OP1	21:BB:225:SER:HA	2.00	0.62
18:B3:2136:G:C6	18:B3:2238:A:N6	2.68	0.62
18:B3:2245:C:C5	18:B3:2246:U:H5	2.09	0.62
18:B3:2347:C:C1'	29:BJ:67:HIS:C	2.62	0.62
18:B3:2350:G:N1	29:BJ:116:ASP:HB2	2.14	0.62
18:B3:2413:A:O2'	24:BE:174:PRO:CB	2.47	0.62
18:B3:2756:U:O3'	22:BC:364:PHE:HB2	1.99	0.62
18:B3:2781:U:O4'	27:BH:155:SER:CB	2.33	0.62
18:B3:2846:C:O2'	22:BC:172:GLN:NE2	2.32	0.62
21:BB:4:ILE:HD12	21:BB:4:ILE:N	2.15	0.62
21:BB:89:ALA:HA	21:BB:100:VAL:HG22	1.80	0.62
21:BB:179:LEU:CD2	47:B9:21:LEU:HD13	2.12	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:251:ILE:HG21	22:BC:259:VAL:HG11	1.82	0.62
22:BC:355:LEU:O	22:BC:355:LEU:HD22	1.98	0.62
22:BC:360:THR:H	38:BS:14:TYR:HB3	0.55	0.62
23:BD:208:TYR:CD2	23:BD:224:VAL:HG21	2.35	0.62
24:BE:22:ARG:HH22	24:BE:24:ARG:HH22	1.48	0.62
24:BE:142:PHE:O	24:BE:143:LYS:HG3	1.99	0.62
32:BM:35:VAL:HG11	32:BM:109:PRO:HB3	1.80	0.62
32:BM:52:LYS:CA	32:BM:58:ARG:HE	2.13	0.62
33:BN:23:VAL:HG21	33:BN:86:SER:HA	1.81	0.62
33:BN:70:ALA:O	33:BN:74:GLU:HB3	1.98	0.62
33:BN:148:VAL:HG12	33:BN:149:VAL:N	2.15	0.62
35:BP:14:VAL:HG11	35:BP:16:VAL:HG22	1.82	0.62
36:BQ:60:LYS:CB	36:BQ:76:ILE:HD12	2.30	0.62
36:BQ:79:MET:HE2	36:BQ:82:ASN:HA	1.82	0.62
37:BR:11:PHE:CB	37:BR:86:ARG:HE	2.08	0.62
40:BU:31:LEU:HD22	40:BU:101:PRO:CG	2.29	0.62
43:BW:17:LYS:HD2	43:BW:66:VAL:HB	1.82	0.62
1:AA:1318:A:C2'	17:AS:83:MET:HA	2.28	0.62
1:AA:1346:A:H61	7:AG:80:ARG:NH2	1.98	0.62
1:AA:1413:A:H2	1:AA:1487:G:H22	1.47	0.62
1:AA:1484:C:N1	18:B3:2001:G:O2'	2.22	0.62
2:AT:685:ARG:HE	2:AT:687:ASN:ND2	1.93	0.62
4:AC:6:LYS:HG3	4:AC:8:ARG:H	1.64	0.62
4:AC:66:ASN:O	4:AC:69:THR:HG22	1.99	0.62
7:AG:112:ILE:HD11	7:AG:193:LEU:HD13	1.82	0.62
10:AJ:52:LYS:CD	10:AJ:91:ILE:HG22	2.30	0.62
10:AJ:70:THR:HG21	14:AN:40:GLN:N	2.10	0.62
10:AJ:74:GLU:C	14:AN:40:GLN:HB2	2.19	0.62
13:AM:23:ASP:CG	13:AM:31:ALA:HB1	2.19	0.62
18:B3:35:U:C4'	23:BD:49:TYR:N	2.51	0.62
18:B3:449:A:C4'	18:B3:1306:U:C4	2.82	0.62
18:B3:449:A:H2'	23:BD:46:ARG:NE	2.12	0.62
18:B3:672:G:C5'	23:BD:214:ILE:CB	2.77	0.62
18:B3:722:G:H1'	34:BO:141:ARG:HE	1.64	0.62
18:B3:905:C:C5'	41:BV:11:ARG:CZ	2.53	0.62
18:B3:921:G:H1'	41:BV:41:ARG:HB3	1.81	0.62
18:B3:1362:U:O4'	23:BD:94:ARG:CZ	2.46	0.62
18:B3:2242:U:C4	18:B3:2257:G:C6	2.87	0.62
18:B3:2347:C:O2'	29:BJ:67:HIS:C	2.38	0.62
18:B3:2709:G:C8	37:BR:7:GLN:CG	2.83	0.62
18:B3:2762:C:O4'	37:BR:16:GLY:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2806:C:C5'	22:BC:343:THR:CG2	2.72	0.62
18:B3:2806:C:H5"	22:BC:343:THR:HA	1.81	0.62
19:B4:85:A:C1'	25:BF:228:PHE:HZ	1.84	0.62
19:B4:107:C:H2'	19:B4:108:C:C6	2.34	0.62
21:BB:201:VAL:HG21	21:BB:217:HIS:O	1.99	0.62
22:BC:32:PRO:CG	22:BC:43:THR:HG21	2.29	0.62
22:BC:39:PRO:HB2	22:BC:182:LEU:CB	2.28	0.62
22:BC:143:ILE:CG2	22:BC:147:LEU:HD13	2.30	0.62
22:BC:221:LYS:HG3	22:BC:331:ARG:HG3	1.82	0.62
22:BC:239:ARG:CA	22:BC:242:HIS:HB3	2.05	0.62
23:BD:170:ALA:O	23:BD:171:VAL:HG13	1.99	0.62
24:BE:191:ASP:OD1	24:BE:192:PRO:HD3	2.00	0.62
25:BF:82:LEU:HB2	25:BF:115:PHE:CZ	2.34	0.62
25:BF:101:VAL:HG21	25:BF:125:LEU:HD22	1.79	0.62
25:BF:177:ILE:HG13	25:BF:182:ASP:CG	2.20	0.62
26:BG:162:VAL:HG23	26:BG:165:LEU:HD23	1.82	0.62
27:BH:12:VAL:H	27:BH:52:LEU:HD22	1.65	0.62
33:BN:124:GLN:CB	33:BN:139:GLU:HG2	2.28	0.62
37:BR:28:ASN:HA	37:BR:102:ILE:HD11	1.81	0.62
39:BT:91:LYS:O	39:BT:109:VAL:HG11	2.00	0.62
40:BU:14:LYS:HE2	40:BU:14:LYS:CA	2.30	0.62
40:BU:44:GLY:O	40:BU:45:ILE:HB	1.99	0.62
40:BU:100:HIS:HB3	40:BU:103:LYS:CG	2.24	0.62
40:BU:106:ILE:HG13	40:BU:106:ILE:O	1.98	0.62
41:BV:86:ARG:HH22	41:BV:91:LYS:HB2	1.65	0.62
43:BW:9:ARG:HH12	43:BW:72:LEU:CD1	2.13	0.62
43:BW:11:TYR:OH	43:BW:72:LEU:HD13	2.00	0.62
46:BZ:62:LYS:CD	46:BZ:64:THR:H	2.12	0.62
1:AA:778:G:C3'	11:AK:126:ARG:CD	2.70	0.61
1:AA:928:G:C5'	1:AA:1533:C:N4	2.63	0.61
1:AA:1243:C:O2'	13:AM:48:LYS:CE	2.48	0.61
2:AT:141:THR:CG2	2:AT:483:PHE:HD2	2.13	0.61
7:AG:122:VAL:HG23	7:AG:123:LEU:N	2.15	0.61
10:AJ:75:GLY:N	14:AN:40:GLN:HG3	2.15	0.61
12:AL:34:LEU:HD23	12:AL:35:GLY:N	2.14	0.61
13:AM:61:LEU:HD22	13:AM:65:GLU:OE1	1.99	0.61
18:B3:51:G:H4'	45:BY:20:ARG:HB3	1.82	0.61
18:B3:71:G:N2	44:BX:56:THR:HG21	2.15	0.61
18:B3:82:C:P	40:BU:75:ARG:HG3	2.30	0.61
18:B3:120:A:N1	45:BY:16:THR:HG21	2.11	0.61
18:B3:699:C:OP2	41:BV:114:LYS:HA	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:894:A:C2	23:BD:98:MET:HB3	2.02	0.61
18:B3:898:G:C5'	41:BV:25:ARG:CD	2.78	0.61
18:B3:924:G:O6	41:BV:41:ARG:CG	2.44	0.61
18:B3:1074:G:C4'	42:B0:45:ARG:HH11	2.13	0.61
18:B3:1147:C:H2'	18:B3:1148:C:C5'	2.26	0.61
18:B3:1359:U:O5'	23:BD:91:ASN:HB2	2.00	0.61
18:B3:1674:C:O2'	39:BT:87:MET:HG3	2.00	0.61
18:B3:2546:U:H2'	22:BC:235:LYS:CE	2.29	0.61
19:B4:8:G:OP2	36:BQ:26:HIS:HE1	1.80	0.61
19:B4:36:C:O2	24:BE:181:PRO:HD3	2.00	0.61
19:B4:69:U:C5'	24:BE:13:SER:HB2	2.25	0.61
20:BA:5:THR:CG2	20:BA:8:GLN:HG3	2.29	0.61
20:BA:155:ILE:HG21	20:BA:167:VAL:CG1	2.30	0.61
22:BC:15:PHE:HD2	22:BC:18:ARG:CG	2.12	0.61
22:BC:359:ASP:CA	38:BS:14:TYR:CB	2.78	0.61
23:BD:75:ARG:O	23:BD:75:ARG:HD2	2.00	0.61
23:BD:149:LEU:HD22	23:BD:246:PHE:HE2	1.64	0.61
23:BD:191:GLY:CA	23:BD:194:ARG:HD3	2.21	0.61
24:BE:18:THR:HG21	24:BE:20:PHE:CD2	2.35	0.61
24:BE:42:ALA:HA	24:BE:49:TYR:CD1	2.35	0.61
24:BE:43:LYS:CG	24:BE:44:TYR:HD1	2.12	0.61
24:BE:148:ILE:HG12	24:BE:149:GLY:O	2.00	0.61
25:BF:177:ILE:HG23	25:BF:178:LEU:H	1.65	0.61
26:BG:151:LEU:HD21	26:BG:185:LEU:CD1	2.30	0.61
26:BG:203:ARG:NE	26:BG:207:GLU:HG2	2.14	0.61
27:BH:18:VAL:HG13	27:BH:26:LYS:HE2	1.82	0.61
27:BH:25:VAL:HG22	27:BH:26:LYS:HE3	1.80	0.61
27:BH:53:ILE:O	27:BH:53:ILE:HG13	1.99	0.61
32:BM:121:GLN:NE2	32:BM:121:GLN:HA	2.14	0.61
33:BN:25:PHE:CB	33:BN:120:GLN:HG2	2.30	0.61
38:BS:39:LEU:HD23	38:BS:39:LEU:O	2.00	0.61
41:BV:95:LYS:HG3	41:BV:96:GLU:N	2.14	0.61
42:B0:73:THR:HA	42:B0:93:ALA:HB3	1.80	0.61
1:AA:33:A:H5"	1:AA:365:U:H5'	1.81	0.61
1:AA:64:G:C4	1:AA:97:G:N1	2.68	0.61
1:AA:132:C:C2	1:AA:263:A:C2	2.88	0.61
1:AA:320:C:C5'	1:AA:1435:G:H21	2.06	0.61
1:AA:757:U:H2'	1:AA:758:G:O4'	2.00	0.61
1:AA:1260:C:O5'	1:AA:1284:C:H4'	1.99	0.61
1:AA:1350:A:H2'	7:AG:103:ASN:ND2	2.15	0.61
1:AA:1483:A:H2'	18:B3:2001:G:C1'	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:70:GLU:HB3	3:AB:118:ARG:CG	2.30	0.61
7:AG:161:VAL:HG23	7:AG:165:ARG:HD2	1.81	0.61
8:AH:13:ILE:HG21	8:AH:77:ARG:HH12	1.65	0.61
10:AJ:49:ASN:CG	10:AJ:93:LEU:HD21	2.19	0.61
12:AL:29:TYR:C	12:AL:30:LYS:HD2	2.21	0.61
18:B3:35:U:H5"	23:BD:104:THR:OG1	1.98	0.61
18:B3:721:A:OP2	34:BO:72:LYS:CE	2.47	0.61
18:B3:905:C:C4	18:B3:1330:A:N3	2.68	0.61
18:B3:921:G:OP1	41:BV:39:HIS:CA	2.43	0.61
18:B3:1096:U:C2'	25:BF:213:TRP:HZ3	2.14	0.61
18:B3:1116:U:O2'	18:B3:1118:A:C2	2.46	0.61
18:B3:1701:A:H4'	18:B3:1702:U:C5'	2.30	0.61
18:B3:1847:A:C4'	21:BB:179:LEU:O	2.36	0.61
18:B3:2561:C:H5'	18:B3:2777:G:C3'	2.29	0.61
18:B3:2736:U:C5	35:BP:61:ARG:NH1	2.46	0.61
18:B3:2781:U:C4'	27:BH:155:SER:HB2	2.29	0.61
19:B4:7:G:C8	24:BE:22:ARG:CG	2.83	0.61
20:BA:66:CYS:HA	20:BA:83:ASP:OD1	2.00	0.61
21:BB:47:ILE:HD11	47:B9:53:ILE:CG1	2.30	0.61
21:BB:199:ARG:NH2	21:BB:202:ALA:HB2	2.15	0.61
21:BB:236:LEU:HD21	21:BB:242:THR:HG23	1.83	0.61
22:BC:17:PRO:HG2	22:BC:19:LYS:HZ3	1.64	0.61
22:BC:46:LEU:CD1	22:BC:80:THR:HG21	2.27	0.61
23:BD:134:VAL:C	23:BD:137:ARG:HH22	2.04	0.61
23:BD:176:ASP:CG	23:BD:205:LEU:HD12	2.20	0.61
26:BG:201:GLU:HG3	26:BG:202:VAL:N	2.15	0.61
27:BH:70:THR:O	27:BH:74:LEU:HD23	2.00	0.61
28:BI:127:ALA:HA	28:BI:128:ARG:NH2	2.14	0.61
31:BL:104:ARG:O	31:BL:105:VAL:HG23	2.00	0.61
33:BN:107:ASP:O	33:BN:111:LEU:HD13	2.00	0.61
33:BN:118:VAL:HG13	33:BN:119:ASN:H	1.65	0.61
34:BO:81:VAL:HG21	34:BO:140:LEU:CD1	2.30	0.61
34:BO:98:LYS:HA	34:BO:118:GLY:O	2.00	0.61
35:BP:10:ALA:HB1	35:BP:21:VAL:HG21	1.82	0.61
35:BP:81:LYS:CE	35:BP:81:LYS:H	2.13	0.61
36:BQ:73:GLY:HA3	36:BQ:89:LEU:HD13	1.79	0.61
40:BU:16:ARG:NH1	40:BU:17:LYS:HB3	2.15	0.61
40:BU:59:VAL:O	40:BU:60:ARG:HB2	2.00	0.61
45:BY:46:TYR:HE2	45:BY:48:TRP:HB3	1.61	0.61
1:AA:238:G:C8	1:AA:240:C:OP2	2.51	0.61
1:AA:267:C:OP1	16:AQ:132:LYS:NZ	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:633:G:O2'	16:AQ:94:PRO:HB2	1.94	0.61
1:AA:677:U:C6	11:AK:121:PRO:HG2	2.34	0.61
1:AA:713:G:C2	11:AK:124:SER:CA	2.77	0.61
1:AA:1152:A:OP2	10:AJ:60:THR:HG21	2.00	0.61
1:AA:1344:C:H5'	9:AI:136:ARG:CB	2.30	0.61
1:AA:1406:U:O4'	1:AA:1518:A:C5'	2.32	0.61
3:AB:139:ASN:HB2	8:AH:69:ASN:CG	2.20	0.61
9:AI:6:VAL:HG11	9:AI:91:TYR:HB2	1.81	0.61
9:AI:98:GLU:H	9:AI:103:GLU:C	2.03	0.61
9:AI:99:GLN:HB3	9:AI:114:THR:HA	1.82	0.61
10:AJ:78:THR:C	14:AN:39:ARG:HD3	2.21	0.61
11:AK:38:ILE:HG22	11:AK:70:CYS:SG	2.40	0.61
12:AL:84:THR:HG22	12:AL:120:VAL:HG12	1.83	0.61
14:AN:37:ILE:HB	14:AN:41:CYS:SG	2.40	0.61
15:AO:85:GLU:HB3	15:AO:89:TYR:CZ	2.35	0.61
17:AS:58:LYS:HD2	17:AS:58:LYS:N	2.15	0.61
18:B3:434:U:C5'	31:BL:156:LYS:NZ	2.63	0.61
18:B3:501:G:O4'	33:BN:16:ALA:HA	1.88	0.61
18:B3:501:G:HO2'	33:BN:15:SER:N	1.96	0.61
18:B3:702:G:O2'	18:B3:703:G:H5'	2.00	0.61
18:B3:953:G:C3'	36:BQ:13:TYR:CD2	2.69	0.61
18:B3:968:G:HO2'	28:BI:39:LYS:CG	1.89	0.61
18:B3:1025:C:H5'	25:BF:104:LEU:O	2.00	0.61
18:B3:1347:U:O2'	23:BD:241:ALA:O	2.17	0.61
18:B3:1716:A:H5'	35:BP:55:THR:HG21	1.81	0.61
18:B3:1806:G:O4'	18:B3:2874:G:H1'	2.01	0.61
18:B3:2316:G:OP1	18:B3:2316:G:C4'	2.47	0.61
18:B3:2459:G:OP2	46:BZ:86:ARG:CZ	2.46	0.61
18:B3:2460:A:C3'	46:BZ:60:LYS:HD2	1.84	0.61
18:B3:2501:G:N2	28:BI:157:TYR:CD1	2.69	0.61
20:BA:60:ARG:HD3	20:BA:61:PRO:CD	2.30	0.61
20:BA:96:ASN:OD1	20:BA:99:LEU:HD23	2.00	0.61
21:BB:62:PHE:HB2	21:BB:66:TYR:CD1	2.24	0.61
21:BB:154:LYS:HE3	21:BB:154:LYS:O	2.00	0.61
22:BC:52:MET:HG3	22:BC:53:THR:H	1.65	0.61
22:BC:87:GLY:O	22:BC:159:VAL:HG23	2.00	0.61
22:BC:118:TYR:CA	22:BC:132:TYR:HD1	2.14	0.61
22:BC:229:THR:HG23	22:BC:246:ARG:CB	2.30	0.61
22:BC:241:THR:HG23	22:BC:247:LYS:NZ	2.15	0.61
23:BD:191:GLY:C	23:BD:197:ARG:HD2	2.21	0.61
24:BE:53:VAL:HG11	24:BE:159:VAL:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:113:LEU:HD13	24:BE:114:GLY:H	1.65	0.61
26:BG:183:ALA:HA	26:BG:194:SER:OG	2.00	0.61
28:BI:36:LEU:HD22	28:BI:73:ASN:CG	2.21	0.61
29:BJ:13:ILE:HD11	29:BJ:75:ALA:O	1.99	0.61
31:BL:65:VAL:HG23	31:BL:66:ARG:N	2.13	0.61
32:BM:95:LYS:CA	32:BM:98:LEU:HD23	2.30	0.61
33:BN:27:ASN:HA	33:BN:30:GLU:CG	2.29	0.61
33:BN:106:LEU:HD23	33:BN:111:LEU:HD22	1.82	0.61
33:BN:123:LYS:HD2	33:BN:123:LYS:H	1.65	0.61
36:BQ:32:LYS:NZ	36:BQ:97:LYS:HE2	2.15	0.61
37:BR:95:PHE:C	38:BS:22:VAL:O	2.35	0.61
40:BU:39:LEU:O	40:BU:39:LEU:HG	1.99	0.61
40:BU:40:ARG:HG2	40:BU:41:ALA:N	2.14	0.61
41:BV:77:LEU:HD12	41:BV:77:LEU:N	2.14	0.61
41:BV:126:ALA:HA	41:BV:146:LEU:CD1	2.30	0.61
42:B0:64:LYS:HG2	42:B0:65:PHE:CD1	2.35	0.61
45:BY:4:THR:N	45:BY:5:PRO:HA	2.14	0.61
47:B9:52:GLY:HA2	47:B9:54:TRP:HZ3	1.61	0.61
1:AA:11:G:O2'	1:AA:525:C:C2'	2.48	0.61
1:AA:542:G:H4'	5:AD:47:PHE:CE2	2.35	0.61
1:AA:621:A:C8	5:AD:143:ILE:HG13	2.35	0.61
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.35	0.61
1:AA:1176:A:C4	9:AI:108:PHE:CG	2.83	0.61
1:AA:1176:A:H2'	1:AA:1177:G:C8	2.36	0.61
1:AA:1220:G:O2'	17:AS:95:GLY:C	2.22	0.61
1:AA:1226:C:OP2	13:AM:131:LEU:CD2	2.48	0.61
1:AA:1349:A:OP1	9:AI:135:SER:CA	2.48	0.61
2:AT:108:HIS:CE1	2:AT:540:ILE:CB	2.83	0.61
2:AT:110:ASP:O	2:AT:484:SER:N	2.33	0.61
2:AT:465:LYS:CB	2:AT:512:SER:O	2.39	0.61
5:AD:99:LEU:HD23	5:AD:103:ASP:C	2.20	0.61
7:AG:107:LEU:H	7:AG:107:LEU:CD2	2.13	0.61
9:AI:45:PHE:CE1	9:AI:47:VAL:HG21	2.35	0.61
10:AJ:56:VAL:HG13	10:AJ:58:LEU:HD23	1.82	0.61
18:B3:270:U:OP1	18:B3:273:G:C2'	2.48	0.61
18:B3:487:G:C4'	40:BU:90:VAL:HB	2.30	0.61
18:B3:537:G:N2	42:B0:25:TYR:OH	2.34	0.61
18:B3:582:C:H2'	18:B3:583:G:H8	1.64	0.61
18:B3:613:C:H2'	18:B3:614:U:H6	1.64	0.61
18:B3:922:A:O4'	41:BV:41:ARG:NE	2.19	0.61
18:B3:1131:G:O2'	18:B3:2522:G:O5'	2.18	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1597:A:H4'	35:BP:95:ILE:CG2	2.29	0.61
18:B3:1714:C:O2'	18:B3:1715:C:H5'	2.00	0.61
18:B3:1787:C:O2	18:B3:2882:G:O3'	1.90	0.61
18:B3:1800:G:H4'	35:BP:88:LEU:N	2.15	0.61
18:B3:2170:G:OP2	20:BA:26:ARG:HB3	1.99	0.61
18:B3:2502:C:C2'	18:B3:2503:A:H5'	2.30	0.61
18:B3:2762:C:H4'	37:BR:16:GLY:C	2.21	0.61
18:B3:2829:G:O2'	22:BC:127:LYS:NZ	1.95	0.61
20:BA:50:SER:HA	20:BA:154:THR:HG22	1.81	0.61
20:BA:70:ASP:C	20:BA:74:VAL:HG23	2.21	0.61
20:BA:183:ILE:O	20:BA:187:VAL:HG23	1.99	0.61
21:BB:38:GLY:CA	21:BB:90:GLY:HA3	2.28	0.61
21:BB:241:ARG:HB3	21:BB:241:ARG:HH11	1.63	0.61
22:BC:45:PHE:HE1	22:BC:81:PRO:CB	2.13	0.61
22:BC:182:LEU:O	22:BC:182:LEU:HD22	2.00	0.61
22:BC:247:LYS:HE2	22:BC:247:LYS:O	2.00	0.61
23:BD:84:SER:CA	23:BD:97:ARG:HD3	2.30	0.61
27:BH:31:ARG:HB2	27:BH:82:VAL:O	2.00	0.61
27:BH:64:HIS:O	32:BM:127:ARG:CA	2.48	0.61
28:BI:35:ASP:HA	28:BI:88:ARG:NH1	2.15	0.61
29:BJ:16:LEU:HD13	29:BJ:16:LEU:N	2.15	0.61
33:BN:75:PHE:CE2	33:BN:77:VAL:HG13	2.36	0.61
33:BN:148:VAL:CG1	33:BN:149:VAL:HG22	2.19	0.61
37:BR:66:LYS:HB2	37:BR:67:PRO:HD3	1.82	0.61
39:BT:81:LEU:HD22	39:BT:82:VAL:N	2.15	0.61
40:BU:35:LEU:HD22	40:BU:45:ILE:O	2.01	0.61
42:B0:103:LYS:O	42:B0:107:VAL:HG22	1.99	0.61
43:BW:16:HIS:H	43:BW:19:LEU:HB2	1.65	0.61
47:B9:24:GLN:CG	47:B9:25:VAL:HG23	2.30	0.61
1:AA:67:C:C5	1:AA:70:G:O6	2.53	0.61
1:AA:364:A:OP1	12:AL:50:LYS:CG	2.43	0.61
1:AA:405:U:C5'	5:AD:37:LYS:HE3	2.29	0.61
1:AA:449:C:C5'	5:AD:131:GLN:O	2.48	0.61
1:AA:633:G:O2'	16:AQ:94:PRO:CA	2.47	0.61
1:AA:679:C:C2	11:AK:125:THR:OG1	2.54	0.61
1:AA:1003(A):G:C2	1:AA:1004:A:H1'	2.36	0.61
1:AA:1070:U:C3'	6:AE:90:ARG:CB	2.79	0.61
1:AA:1318:A:O3'	17:AS:84:ILE:HB	2.00	0.61
2:AT:27:HIS:CD2	18:B3:2698:G:OP1	2.52	0.61
3:AB:67:PRO:HB2	3:AB:183:LEU:HD23	1.81	0.61
4:AC:94:GLY:HA3	4:AC:124:TYR:CE2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:74:ASN:HD21	5:AD:79:ARG:CB	2.13	0.61
9:AI:8:THR:HG1	9:AI:86:LYS:HB3	1.66	0.61
12:AL:59:ILE:HD11	12:AL:117:ILE:CB	2.31	0.61
17:AS:95:GLY:HA2	17:AS:103:ASN:O	2.01	0.61
18:B3:52:A:C4	18:B3:121:U:O2'	2.53	0.61
18:B3:53:C:C5'	18:B3:121:U:C2'	2.77	0.61
18:B3:263:U:H4'	26:BG:161:LEU:HD11	1.82	0.61
18:B3:283:U:C5	18:B3:284:C:N4	2.68	0.61
18:B3:499:G:C3'	33:BN:19:SER:OG	2.48	0.61
18:B3:621:C:P	42:B0:40:SER:HB3	2.41	0.61
18:B3:677:C:H5"	23:BD:256:LYS:HE2	1.73	0.61
18:B3:906:C:N3	18:B3:1328:A:C6	2.65	0.61
18:B3:1149:U:O2'	18:B3:1150:A:OP2	2.15	0.61
18:B3:1192:A:C2	30:BK:105:GLN:N	2.69	0.61
18:B3:1287:A:N6	25:BF:201:LEU:CD1	2.64	0.61
18:B3:1474:C:H6	18:B3:1474:C:H5'	1.65	0.61
18:B3:1676:G:C8	39:BT:113:VAL:CG2	2.84	0.61
18:B3:1733:A:C4	22:BC:225:PHE:CE1	2.84	0.61
18:B3:1855:G:O6	21:BB:149:LEU:CB	2.34	0.61
18:B3:2560:C:C5'	27:BH:168:ARG:HG3	2.30	0.61
18:B3:2820:A:H1'	22:BC:89:VAL:HB	1.80	0.61
18:B3:2820:A:H4'	22:BC:90:GLY:H	1.64	0.61
19:B4:34:A:C4	24:BE:185:PHE:HD1	2.18	0.61
19:B4:49:G:H8	24:BE:158:ARG:CG	2.12	0.61
21:BB:31:LEU:CD2	21:BB:36:ARG:HB3	2.30	0.61
21:BB:115:VAL:HG12	21:BB:162:ARG:NH1	2.14	0.61
22:BC:88:VAL:N	22:BC:198:PHE:HE1	1.98	0.61
23:BD:197:ARG:HG2	23:BD:198:TRP:H	1.65	0.61
25:BF:190:VAL:HG12	25:BF:191:GLY:H	1.65	0.61
26:BG:111:GLU:HB2	26:BG:117:GLU:HB3	1.81	0.61
29:BJ:166:TYR:CE1	29:BJ:167:ASP:HB2	2.36	0.61
33:BN:66:ILE:CG1	33:BN:79:LYS:HD3	2.30	0.61
36:BQ:11:THR:CG2	36:BQ:12:ARG:H	2.11	0.61
37:BR:15:LEU:HD13	37:BR:53:SER:CB	2.30	0.61
37:BR:79:VAL:HG12	37:BR:80:ARG:HG2	1.83	0.61
40:BU:57:LEU:HD11	40:BU:105:VAL:HG23	1.80	0.61
40:BU:81:GLN:HG2	40:BU:82:VAL:N	2.13	0.61
41:BV:137:ILE:HG22	41:BV:138:ARG:N	2.15	0.61
46:BZ:48:GLY:O	46:BZ:49:PHE:HB3	1.99	0.61
46:BZ:50:GLY:O	46:BZ:53:THR:HG23	2.00	0.61
1:AA:216:G:H2'	1:AA:217:C:C6	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:538:G:H1'	12:AL:140:LYS:NZ	2.16	0.61
1:AA:924:C:H1'	1:AA:1398:A:C2'	2.27	0.61
1:AA:1091:U:O2	1:AA:1093:A:C8	2.54	0.61
1:AA:1176:A:N9	9:AI:108:PHE:CD1	2.55	0.61
1:AA:1219:U:O2'	17:AS:59:LYS:HA	2.00	0.61
2:AT:292:LYS:HD3	2:AT:295:GLU:OE2	2.00	0.61
3:AB:40:ARG:HB3	3:AB:41:PRO:HD2	1.82	0.61
3:AB:59:ALA:HA	3:AB:157:VAL:HG11	1.82	0.61
4:AC:39:ARG:HB3	4:AC:46:GLU:CG	2.28	0.61
4:AC:108:LEU:HD13	4:AC:114:ILE:HD13	1.83	0.61
7:AG:85:GLN:O	7:AG:89:ILE:HA	2.00	0.61
10:AJ:23:ARG:HB2	10:AJ:117:VAL:HG11	1.83	0.61
11:AK:71:ARG:HA	11:AK:75:ILE:HG22	1.82	0.61
13:AM:26:ILE:HA	13:AM:57:ARG:HH11	1.65	0.61
15:AO:88:TYR:O	15:AO:91:ILE:HG12	1.99	0.61
16:AQ:75:VAL:HG23	16:AQ:84:VAL:CG1	2.31	0.61
18:B3:773:A:HO2'	45:BY:48:TRP:HZ3	1.44	0.61
18:B3:953:G:C5'	36:BQ:13:TYR:CE2	2.78	0.61
18:B3:1184:A:C1'	30:BK:86:LYS:HG3	2.23	0.61
18:B3:1342:C:N4	23:BD:186:LEU:CB	2.63	0.61
18:B3:1352:A:P	23:BD:108:TRP:NE1	2.67	0.61
18:B3:1370:G:C8	33:BN:62:PHE:CZ	2.67	0.61
18:B3:1673:U:C5'	39:BT:109:VAL:O	2.49	0.61
18:B3:1745:G:P	37:BR:22:ILE:CG1	2.89	0.61
18:B3:1808:C:H6	18:B3:2885:A:P	2.24	0.61
18:B3:2578:G:O3'	18:B3:2680:A:C5'	2.42	0.61
18:B3:2826:G:C1'	22:BC:124:SER:HB2	2.30	0.61
19:B4:49:G:N9	24:BE:94:ASN:CA	2.28	0.61
19:B4:86:G:O3'	25:BF:219:PHE:CE2	2.53	0.61
20:BA:5:THR:HG22	20:BA:8:GLN:CG	2.30	0.61
21:BB:5:ARG:C	21:BB:8:ARG:HH21	2.03	0.61
21:BB:127:ARG:NH2	21:BB:128:ALA:HB3	2.15	0.61
22:BC:180:ILE:HD12	22:BC:180:ILE:O	2.01	0.61
23:BD:140:ARG:HH22	23:BD:178:LEU:HD13	1.65	0.61
24:BE:111:GLN:H	24:BE:115:LEU:HG	1.66	0.61
25:BF:178:LEU:HB2	25:BF:180:ILE:CD1	2.30	0.61
26:BG:109:THR:HA	26:BG:118:GLY:CA	2.30	0.61
26:BG:129:TYR:O	26:BG:202:VAL:HB	2.01	0.61
27:BH:26:LYS:HE3	27:BH:26:LYS:N	2.11	0.61
27:BH:64:HIS:O	32:BM:127:ARG:HA	2.00	0.61
29:BJ:96:SER:HB2	29:BJ:101:PHE:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:31:ARG:HA	41:BV:31:ARG:NE	2.15	0.61
41:BV:62:LYS:HA	41:BV:66:HIS:ND1	2.16	0.61
42:B0:64:LYS:H	42:B0:64:LYS:CD	2.14	0.61
43:BW:39:ALA:O	43:BW:40:LYS:HG3	2.00	0.61
1:AA:319:G:H1'	1:AA:1434:A:N6	2.16	0.61
1:AA:562:C:C6	12:AL:33:LEU:HD22	2.34	0.61
1:AA:706:A:H4'	11:AK:21:SER:OG	1.98	0.61
1:AA:754:C:O5'	15:AO:127:TYR:HE1	1.83	0.61
1:AA:1148:U:H4'	9:AI:16:THR:HG21	1.82	0.61
1:AA:1176:A:H2'	9:AI:107:ALA:CA	2.29	0.61
1:AA:1248:A:HO2'	9:AI:73:HIS:CE1	2.17	0.61
1:AA:1290:G:H4'	7:AG:107:LEU:HD11	1.82	0.61
1:AA:1349:A:OP1	9:AI:135:SER:HB3	2.00	0.61
1:AA:1496:C:O2	1:AA:1518:A:C8	2.54	0.61
4:AC:159:SER:HB2	4:AC:167:ILE:HG13	1.81	0.61
5:AD:100:LYS:HG3	5:AD:195:ASP:HB2	1.83	0.61
5:AD:127:VAL:HA	5:AD:130:THR:HG22	1.82	0.61
9:AI:34:PRO:HD2	9:AI:37:LEU:CD2	2.31	0.61
9:AI:50:PRO:HG2	9:AI:84:ILE:HG23	1.83	0.61
9:AI:58:LYS:NZ	9:AI:62:ILE:HG21	2.15	0.61
12:AL:117:ILE:HG13	12:AL:120:VAL:HG21	1.81	0.61
18:B3:1153:C:P	18:B3:1155:G:C8	2.93	0.61
18:B3:1316:G:OP1	42:B0:101:SER:C	2.39	0.61
18:B3:1381:A:H8	43:BW:25:LYS:NZ	1.97	0.61
18:B3:1743:G:N2	37:BR:18:PRO:CG	2.63	0.61
18:B3:1861:C:O2'	21:BB:7:GLN:C	2.39	0.61
18:B3:2460:A:C4'	46:BZ:60:LYS:HD3	2.30	0.61
18:B3:2520:G:C4'	28:BI:160:PRO:HA	2.22	0.61
18:B3:2819:C:N3	22:BC:100:SER:CB	2.50	0.61
19:B4:46:C:H5'	24:BE:152:ARG:NH2	2.02	0.61
19:B4:119:C:H1'	24:BE:71:GLY:O	1.95	0.61
21:BB:106:VAL:HG22	21:BB:110:THR:HG21	1.81	0.61
22:BC:91:TYR:CB	22:BC:99:ARG:HH21	2.14	0.61
22:BC:279:HIS:HB3	22:BC:323:VAL:CG2	2.31	0.61
23:BD:205:LEU:HG	23:BD:206:VAL:N	2.16	0.61
24:BE:18:THR:HG21	24:BE:20:PHE:CE2	2.36	0.61
24:BE:81:HIS:HA	24:BE:92:LEU:HD11	1.81	0.61
28:BI:51:HIS:HB2	28:BI:52:LEU:CD1	2.24	0.61
28:BI:125:LEU:HD12	28:BI:125:LEU:N	2.15	0.61
40:BU:33:ALA:O	40:BU:47:ALA:HB1	2.01	0.61
40:BU:35:LEU:HD23	40:BU:39:LEU:HG	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:48:LEU:HB3	40:BU:49:PRO:HD2	1.82	0.61
45:BY:41:ALA:C	45:BY:42:LYS:HG3	2.19	0.61
46:BZ:9:THR:O	46:BZ:19:HIS:HB3	2.01	0.61
1:AA:107:G:C8	1:AA:378:G:O2'	2.53	0.61
1:AA:292:G:N2	1:AA:608:A:H2	1.87	0.61
1:AA:1220:G:H8	17:AS:78:THR:OG1	1.51	0.61
1:AA:1290:G:C5'	7:AG:108:LYS:NZ	2.64	0.61
1:AA:1321:C:C1'	17:AS:120:SER:H	2.07	0.61
1:AA:1499:A:C5	1:AA:1519:A:H2'	2.35	0.61
2:AT:545:LEU:HA	2:AT:549:HIS:HB2	1.82	0.61
5:AD:34:PHE:CZ	5:AD:67:PRO:HB3	2.35	0.61
8:AH:18:LYS:O	8:AH:18:LYS:HD3	2.01	0.61
10:AJ:79:TRP:O	10:AJ:80:GLU:HB2	2.01	0.61
11:AK:78:VAL:HG21	11:AK:109:LEU:HD13	1.82	0.61
12:AL:102:VAL:HG22	12:AL:103:LEU:N	2.16	0.61
13:AM:88:ARG:HH22	13:AM:115:ARG:NH1	1.95	0.61
18:B3:283:U:H3'	18:B3:284:C:C5	2.35	0.61
18:B3:449:A:OP1	23:BD:45:LYS:HB3	2.00	0.61
18:B3:629:A:C5'	42:B0:39:ASP:O	2.45	0.61
18:B3:657:G:C2'	23:BD:119:TYR:CE2	2.80	0.61
18:B3:721:A:H5"	34:BO:71:LEU:CA	2.31	0.61
18:B3:1120:U:H5'	18:B3:1121:G:OP2	2.00	0.61
18:B3:1312:G:N7	23:BD:185:LYS:NZ	2.48	0.61
18:B3:1377:C:H5'	18:B3:1377:C:H6	1.66	0.61
18:B3:1675:C:C5	39:BT:112:LEU:CA	2.84	0.61
18:B3:1848:G:P	21:BB:178:LEU:HD23	2.40	0.61
18:B3:1861:C:O3'	21:BB:7:GLN:HA	2.01	0.61
18:B3:2273:C:OP1	21:BB:1:GLY:CA	2.48	0.61
18:B3:2320:U:C4	46:BZ:4:PRO:CB	2.75	0.61
18:B3:2369:A:OP1	24:BE:31:TYR:CZ	2.51	0.61
18:B3:2396:C:O2	41:BV:46:LYS:CD	2.45	0.61
18:B3:2762:C:O3'	37:BR:16:GLY:CA	2.47	0.61
19:B4:11:A:H8	24:BE:17:GLN:HA	1.66	0.61
21:BB:40:ILE:HD12	21:BB:40:ILE:N	2.16	0.61
22:BC:32:PRO:HG3	22:BC:43:THR:HG21	1.83	0.61
22:BC:169:PRO:HB2	22:BC:313:TYR:CB	2.30	0.61
22:BC:350:LEU:HD22	22:BC:350:LEU:N	2.16	0.61
23:BD:133:LEU:CD2	23:BD:243:LEU:HG	2.29	0.61
24:BE:43:LYS:HD3	24:BE:44:TYR:CE1	2.35	0.61
24:BE:112:ARG:HD2	24:BE:113:LEU:N	2.14	0.61
25:BF:169:GLU:HB2	25:BF:171:ASN:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:230:ASN:O	25:BF:231:ARG:HG3	2.00	0.61
26:BG:151:LEU:CD2	26:BG:185:LEU:HB2	2.31	0.61
26:BG:183:ALA:O	26:BG:187:THR:HG23	2.01	0.61
30:BK:85:LEU:HD23	30:BK:87:GLU:HB2	1.82	0.61
32:BM:14:LEU:HB2	32:BM:121:GLN:CD	2.21	0.61
32:BM:55:ASP:OD2	32:BM:143:SER:HB2	2.01	0.61
33:BN:40:LEU:HD12	33:BN:40:LEU:O	2.00	0.61
34:BO:32:LEU:HD13	34:BO:32:LEU:O	2.01	0.61
34:BO:123:THR:HG22	34:BO:126:GLN:HB2	1.83	0.61
35:BP:92:VAL:HG23	35:BP:93:VAL:N	2.15	0.61
35:BP:94:TRP:CE2	35:BP:95:ILE:HG23	2.35	0.61
37:BR:76:ALA:CB	37:BR:102:ILE:HA	2.30	0.61
39:BT:75:VAL:HB	39:BT:131:ALA:CB	2.29	0.61
40:BU:23:PRO:CD	40:BU:26:GLN:HE21	2.13	0.61
42:B0:103:LYS:HD3	42:B0:103:LYS:N	2.15	0.61
45:BY:29:GLN:O	45:BY:29:GLN:HG2	2.00	0.61
47:B9:40:PHE:O	47:B9:41:CYS:HB3	2.01	0.61
47:B9:47:LYS:HE3	47:B9:48:ARG:H	1.66	0.61
1:AA:404:U:C1'	5:AD:21:SER:O	2.44	0.61
1:AA:560:U:C2'	1:AA:563:A:O4'	2.47	0.61
1:AA:754:C:H6	15:AO:127:TYR:CE2	2.14	0.61
1:AA:947:G:C5'	13:AM:143:ARG:HH22	1.79	0.61
1:AA:987:G:C5	1:AA:1014:A:N3	2.69	0.61
1:AA:1068:G:H5'	1:AA:1388:C:H5"	1.83	0.61
1:AA:1117:G:H8	1:AA:1117:G:H5'	1.65	0.61
1:AA:1177:G:O6	9:AI:108:PHE:O	2.19	0.61
1:AA:1202:G:N1	10:AJ:74:GLU:HG3	2.10	0.61
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.16	0.61
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.01	0.61
3:AB:136:SER:O	8:AH:70:LYS:HA	2.01	0.61
10:AJ:80:GLU:CD	14:AN:43:ARG:HH11	2.03	0.61
11:AK:125:THR:HG22	11:AK:126:ARG:N	2.15	0.61
18:B3:215:A:C3'	41:BV:58:ARG:CD	2.77	0.61
18:B3:251:C:O4'	31:BL:139:LYS:NZ	1.94	0.61
18:B3:721:A:P	34:BO:71:LEU:CB	2.88	0.61
18:B3:815:U:O3'	18:B3:816:G:C5'	2.41	0.61
18:B3:1164:U:C6	30:BK:51:LYS:N	2.69	0.61
18:B3:1183:C:O4'	30:BK:104:ILE:HA	2.01	0.61
18:B3:1358:A:C4	23:BD:92:MET:HG3	2.36	0.61
18:B3:1815:A:C2'	18:B3:2746:A:C8	2.60	0.61
18:B3:1816:C:N1	18:B3:2746:A:C2	2.69	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1869:A:N3	21:BB:10:GLY:HA2	2.15	0.61
18:B3:2039:A:H4'	18:B3:2760:C:H4'	1.83	0.61
18:B3:2205:G:C5	18:B3:2206:C:C5	2.88	0.61
18:B3:2370:A:N6	36:BQ:49:GLN:HE22	1.74	0.61
18:B3:2501:G:N1	28:BI:157:TYR:HE1	1.98	0.61
18:B3:2504:A:H2'	18:B3:2505:G:O4'	2.01	0.61
18:B3:2526:C:H1'	18:B3:2604:A:O3'	2.01	0.61
18:B3:2780:C:H5"	27:BH:162:GLN:CD	2.20	0.61
19:B4:11:A:N1	24:BE:12:TYR:HB3	2.11	0.61
19:B4:117:G:C2	24:BE:70:THR:HA	2.35	0.61
21:BB:29:ARG:CZ	21:BB:29:ARG:H	2.13	0.61
21:BB:42:GLY:O	21:BB:87:ILE:HG22	2.00	0.61
21:BB:138:HIS:CD2	21:BB:145:THR:HA	2.34	0.61
22:BC:17:PRO:HG3	22:BC:19:LYS:HD2	1.83	0.61
22:BC:75:VAL:HG13	22:BC:76:THR:N	2.14	0.61
23:BD:197:ARG:O	23:BD:198:TRP:HD1	1.84	0.61
23:BD:210:GLU:HG3	23:BD:211:ASP:N	2.13	0.61
24:BE:64:ILE:CG2	24:BE:109:THR:HG21	2.31	0.61
24:BE:110:LEU:CD2	24:BE:171:LEU:H	2.02	0.61
26:BG:115:VAL:HG11	26:BG:213:LEU:HB3	1.81	0.61
26:BG:182:LYS:HG2	26:BG:194:SER:CB	2.30	0.61
27:BH:13:PRO:HD3	27:BH:79:ILE:HG23	1.81	0.61
27:BH:52:LEU:HG	27:BH:53:ILE:N	2.14	0.61
27:BH:90:MET:HB3	27:BH:180:TYR:O	2.01	0.61
28:BI:145:LYS:HD3	28:BI:145:LYS:O	2.00	0.61
30:BK:22:VAL:HG22	30:BK:23:GLY:N	2.16	0.61
35:BP:41:ARG:CA	35:BP:44:VAL:HG12	2.31	0.61
36:BQ:39:ILE:H	36:BQ:39:ILE:CD1	2.14	0.61
41:BV:104:LEU:HB3	41:BV:108:TYR:OH	2.00	0.61
43:BW:58:ILE:HG13	43:BW:59:TRP:NE1	2.14	0.61
44:BX:17:LEU:HD21	44:BX:54:VAL:HG22	1.83	0.61
44:BX:24:LEU:O	44:BX:25:LYS:HB2	2.00	0.61
1:AA:25:C:O4'	12:AL:109:ARG:NH1	2.33	0.61
1:AA:67:C:OP1	1:AA:172:A:O2'	2.18	0.61
1:AA:243:A:H4'	1:AA:244:U:C5'	2.21	0.61
1:AA:436:C:H2'	1:AA:496:A:H2'	1.82	0.61
1:AA:920:U:H4'	1:AA:1080:A:H2'	0.62	0.61
1:AA:1321:C:C4'	17:AS:118:GLU:HA	2.29	0.61
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.16	0.61
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.83	0.61
1:AA:1484:C:H2'	1:AA:1485:U:H6	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:536:LEU:CD2	18:B3:2698:G:H4'	2.31	0.61
4:AC:51:ALA:O	4:AC:90:VAL:HG23	2.00	0.61
8:AH:27:ARG:CG	8:AH:28:PRO:HD2	2.28	0.61
11:AK:56:PRO:HG3	11:AK:92:THR:CG2	2.29	0.61
18:B3:107:U:H5"	44:BX:58:ILE:O	2.00	0.61
18:B3:399:C:OP1	31:BL:180:ASN:HB3	1.90	0.61
18:B3:621:C:P	42:B0:40:SER:HG	2.24	0.61
18:B3:625:U:H5"	18:B3:1044:C:N4	2.15	0.61
18:B3:945:U:O4'	25:BF:125:LEU:HD21	1.99	0.61
18:B3:1116:U:C3'	18:B3:1226:G:C8	2.84	0.61
18:B3:1184:A:C4'	30:BK:85:LEU:O	2.47	0.61
18:B3:1306:U:H5	23:BD:194:ARG:CZ	2.13	0.61
18:B3:1507:C:C4'	39:BT:74:LYS:HD2	2.27	0.61
18:B3:1653:A:N9	21:BB:186:HIS:HD2	1.98	0.61
18:B3:1805:G:N2	18:B3:2883:A:C8	2.68	0.61
18:B3:2576:A:H2	18:B3:2800:A:N6	1.98	0.61
18:B3:2591:C:H2'	18:B3:2592:G:O4'	1.99	0.61
19:B4:50:G:O5'	24:BE:94:ASN:N	2.33	0.61
20:BA:124:LEU:HD12	20:BA:124:LEU:N	2.16	0.61
22:BC:98:LEU:HD22	22:BC:98:LEU:N	2.16	0.61
22:BC:104:VAL:HG21	22:BC:198:PHE:HE1	1.64	0.61
22:BC:115:ARG:CG	22:BC:173:LYS:HD2	2.31	0.61
22:BC:167:LYS:O	22:BC:167:LYS:HG3	2.01	0.61
22:BC:331:ARG:HB2	22:BC:332:LYS:CE	2.31	0.61
23:BD:48:ALA:HB1	23:BD:104:THR:OG1	2.00	0.61
23:BD:159:GLN:HG3	23:BD:160:LYS:HG3	1.82	0.61
24:BE:64:ILE:HG23	24:BE:75:LEU:HD21	1.81	0.61
25:BF:119:THR:HG23	25:BF:120:LYS:O	2.01	0.61
25:BF:129:ILE:O	25:BF:129:ILE:HG13	2.00	0.61
25:BF:150:ARG:HG3	25:BF:205:LYS:O	2.01	0.61
26:BG:108:LEU:HD22	26:BG:108:LEU:N	2.14	0.61
27:BH:65:VAL:H	32:BM:129:LYS:HB2	1.65	0.61
27:BH:129:ARG:HG3	27:BH:153:ASP:CA	2.31	0.61
28:BI:106:ALA:H	28:BI:111:LEU:HB3	1.66	0.61
29:BJ:83:LEU:HD11	29:BJ:90:LEU:HD11	1.82	0.61
31:BL:161:ARG:HD3	31:BL:169:LYS:CG	2.31	0.61
32:BM:17:ARG:HD2	32:BM:121:GLN:NE2	2.15	0.61
32:BM:53:TYR:O	32:BM:60:ALA:HB2	2.01	0.61
35:BP:42:LYS:N	35:BP:44:VAL:HG12	2.15	0.61
40:BU:13:ARG:O	40:BU:17:LYS:HG2	2.01	0.61
40:BU:45:ILE:HD12	40:BU:47:ALA:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:58:VAL:HG12	40:BU:66:GLN:H	1.66	0.61
42:B0:35:GLN:HG2	42:B0:43:ARG:CA	2.31	0.61
42:B0:77:ALA:O	42:B0:78:ASN:HB2	2.01	0.61
46:BZ:68:VAL:HG13	46:BZ:69:LEU:N	2.12	0.61
1:AA:130:A:H3'	16:AQ:127:CYS:SG	2.40	0.60
1:AA:436:C:H4'	1:AA:496:A:OP1	1.99	0.60
1:AA:579:G:O3'	15:AO:112:PHE:CZ	2.53	0.60
1:AA:751:U:HO2'	15:AO:83:ILE:HD11	1.64	0.60
1:AA:1177:G:C6	9:AI:108:PHE:O	2.54	0.60
1:AA:1296:C:O2'	13:AM:54:LEU:CD1	2.49	0.60
1:AA:1317:C:H2'	17:AS:55:GLY:N	2.14	0.60
5:AD:55:ALA:HB2	5:AD:59:LEU:HD23	1.82	0.60
12:AL:93:LEU:HD22	12:AL:93:LEU:H	1.66	0.60
13:AM:28:ILE:HG22	13:AM:54:LEU:O	2.01	0.60
15:AO:77:ASN:OD1	15:AO:88:TYR:HB2	2.01	0.60
18:B3:452:G:N7	23:BD:193:TYR:HB2	2.15	0.60
18:B3:898:G:C5'	41:BV:25:ARG:HD2	2.31	0.60
18:B3:938:G:HO2'	18:B3:939:A:H8	1.48	0.60
18:B3:953:G:H2'	36:BQ:13:TYR:CE1	2.36	0.60
18:B3:1011:C:OP1	24:BE:15:ARG:NH2	2.34	0.60
18:B3:1133:A:C2	18:B3:2501:G:N3	2.68	0.60
18:B3:1745:G:P	37:BR:22:ILE:CB	2.68	0.60
18:B3:1812:G:H1'	18:B3:2733:U:P	2.41	0.60
18:B3:2348:C:C4'	29:BJ:17:VAL:HB	2.29	0.60
18:B3:2561:C:H5"	18:B3:2777:G:O3'	1.99	0.60
18:B3:2737:C:H5"	35:BP:59:LYS:H	1.60	0.60
18:B3:2817:G:O2'	22:BC:96:ARG:HB3	2.00	0.60
20:BA:100:ILE:HG21	20:BA:127:GLN:HG3	1.83	0.60
20:BA:108:ASN:OD1	20:BA:162:VAL:CA	2.47	0.60
22:BC:85:VAL:HG11	22:BC:159:VAL:HG11	1.83	0.60
22:BC:121:TRP:CZ3	22:BC:123:LYS:HD3	2.36	0.60
22:BC:239:ARG:HD3	22:BC:239:ARG:H	1.65	0.60
22:BC:280:LYS:H	22:BC:324:LYS:HE2	1.65	0.60
22:BC:358:ILE:N	38:BS:15:PRO:HB3	2.06	0.60
23:BD:155:LEU:HD23	23:BD:158:ILE:HD12	1.82	0.60
24:BE:111:GLN:N	24:BE:115:LEU:HB2	2.14	0.60
26:BG:115:VAL:CG2	26:BG:213:LEU:HB2	2.26	0.60
27:BH:20:ILE:CG1	27:BH:25:VAL:HA	2.31	0.60
28:BI:43:VAL:O	28:BI:46:PHE:HD2	1.84	0.60
28:BI:51:HIS:CE1	28:BI:149:VAL:HA	2.35	0.60
29:BJ:32:ALA:N	29:BJ:34:LYS:HD2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:30:GLU:OE2	33:BN:57:ILE:HD12	2.01	0.60
33:BN:81:ARG:HH11	33:BN:81:ARG:N	1.97	0.60
33:BN:109:THR:HG22	33:BN:110:LYS:N	2.15	0.60
35:BP:17:GLY:H	35:BP:20:LYS:HZ3	1.49	0.60
35:BP:99:ARG:HH11	35:BP:99:ARG:HG2	1.65	0.60
36:BQ:75:ILE:CB	36:BQ:89:LEU:HA	2.25	0.60
37:BR:11:PHE:HB3	37:BR:86:ARG:HG3	1.81	0.60
41:BV:81:ILE:HG23	41:BV:82:PRO:CA	2.31	0.60
43:BW:59:TRP:HZ3	43:BW:65:GLY:O	1.83	0.60
46:BZ:66:LYS:HG3	46:BZ:86:ARG:CZ	2.20	0.60
47:B9:32:GLN:HG2	47:B9:68:TYR:CA	2.31	0.60
1:AA:688:G:O3'	11:AK:49:ALA:HB1	2.01	0.60
1:AA:990:C:H6	1:AA:1017:G:O4'	1.84	0.60
1:AA:1257:U:H4'	1:AA:1258:G:O5'	2.01	0.60
1:AA:1320:C:C2	17:AS:119:PHE:CD1	2.73	0.60
4:AC:159:SER:CB	4:AC:167:ILE:HD11	2.31	0.60
6:AE:96:ARG:HE	6:AE:116:THR:HG21	1.65	0.60
6:AE:214:PHE:HZ	8:AH:70:LYS:HD3	1.66	0.60
7:AG:109:ALA:O	7:AG:113:ILE:HD13	2.01	0.60
9:AI:100:SER:O	9:AI:116:LEU:HD22	2.00	0.60
14:AN:23:CYS:CB	14:AN:37:ILE:HA	2.24	0.60
15:AO:90:LEU:HD23	15:AO:121:ILE:CG1	2.31	0.60
18:B3:487:G:H3'	40:BU:90:VAL:HG11	0.61	0.60
18:B3:517:U:C1'	18:B3:1339:G:O2'	2.44	0.60
18:B3:709:G:O3'	34:BO:44:PHE:CE2	2.54	0.60
18:B3:719:C:O2'	34:BO:74:GLU:N	2.34	0.60
18:B3:766:A:OP1	23:BD:74:PRO:CA	2.31	0.60
18:B3:1401:G:H5'	43:BW:59:TRP:CB	2.26	0.60
18:B3:1528:A:H2'	18:B3:1529:G:O4'	2.01	0.60
18:B3:1741:U:H5'	18:B3:1742:A:OP1	2.01	0.60
18:B3:1848:G:OP1	21:BB:178:LEU:HB3	2.01	0.60
18:B3:2310:G:O2'	28:BI:119:TRP:CZ2	2.55	0.60
18:B3:2559:C:O4'	18:B3:2799:A:H4'	2.00	0.60
19:B4:6:C:OP2	24:BE:27:LYS:NZ	2.31	0.60
19:B4:10:C:N4	36:BQ:26:HIS:HE1	1.94	0.60
19:B4:49:G:P	24:BE:99:TYR:HH	2.24	0.60
21:BB:56:PRO:HD2	47:B9:51:ALA:CB	2.20	0.60
22:BC:217:ILE:HD13	22:BC:337:LEU:O	2.01	0.60
23:BD:232:LEU:HB2	23:BD:256:LYS:NZ	2.15	0.60
24:BE:99:TYR:CE1	24:BE:161:GLY:HA3	2.36	0.60
27:BH:61:GLY:N	27:BH:63:LYS:HE3	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:64:HIS:CE1	27:BH:68:LEU:HD21	2.36	0.60
27:BH:146:LEU:N	27:BH:146:LEU:HD22	2.16	0.60
29:BJ:82:GLY:O	29:BJ:85:VAL:HG13	2.01	0.60
31:BL:82:LYS:N	31:BL:83:PRO:HA	2.16	0.60
32:BM:11:LYS:CA	32:BM:36:ARG:HD2	2.30	0.60
32:BM:35:VAL:HG12	32:BM:36:ARG:N	2.16	0.60
34:BO:72:LYS:CB	34:BO:74:GLU:HG3	2.31	0.60
34:BO:89:ASP:N	34:BO:110:ALA:HB2	2.16	0.60
34:BO:93:ILE:CD1	34:BO:117:ALA:HB3	2.29	0.60
35:BP:23:LEU:CD2	35:BP:24:ASP:H	2.13	0.60
37:BR:94:TYR:CE1	38:BS:21:PHE:CD2	2.83	0.60
39:BT:107:LEU:HB3	39:BT:124:ARG:NH2	2.16	0.60
40:BU:89:LYS:H	40:BU:89:LYS:CE	2.13	0.60
41:BV:117:ILE:HG22	41:BV:118:PRO:CA	2.20	0.60
1:AA:400:C:C2'	1:AA:622:A:H4'	2.32	0.60
1:AA:978:A:C2'	17:AS:82:ASN:HB2	2.30	0.60
1:AA:1302:U:OP1	13:AM:54:LEU:CB	2.49	0.60
1:AA:1321:C:H5'	13:AM:122:HIS:NE2	2.16	0.60
1:AA:1345:U:O4	7:AG:76:TYR:HA	2.02	0.60
3:AB:17:LEU:HD22	3:AB:17:LEU:N	2.15	0.60
5:AD:99:LEU:HD23	5:AD:104:PHE:H	1.63	0.60
5:AD:150:LEU:HG	5:AD:189:ASP:HA	1.82	0.60
6:AE:140:ARG:HG2	6:AE:141:GLY:N	2.11	0.60
7:AG:138:ASN:CG	7:AG:202:LYS:HB2	2.21	0.60
9:AI:116:LEU:HG	9:AI:116:LEU:O	2.00	0.60
11:AK:12:VAL:HG22	11:AK:76:THR:HB	1.82	0.60
12:AL:105:ALA:HB3	12:AL:107:PHE:HB2	1.83	0.60
17:AS:121:ILE:HD12	17:AS:121:ILE:N	2.16	0.60
18:B3:784:A:H5'	21:BB:20:ARG:HH11	1.65	0.60
18:B3:891:G:O4'	45:BY:49:GLY:N	2.34	0.60
18:B3:968:G:O2'	18:B3:969:G:H5'	2.00	0.60
18:B3:1167:G:H1'	30:BK:111:GLU:H	1.66	0.60
18:B3:1311:G:O6	23:BD:185:LYS:CB	2.49	0.60
18:B3:1507:C:C4'	39:BT:74:LYS:CD	2.78	0.60
18:B3:2087:C:C4'	33:BN:78:THR:CB	2.48	0.60
18:B3:2561:C:H5'	18:B3:2777:G:C2'	2.30	0.60
18:B3:2913:A:H61	22:BC:123:LYS:HE2	1.66	0.60
19:B4:117:G:N3	24:BE:70:THR:HA	2.16	0.60
20:BA:12:HIS:ND1	20:BA:206:VAL:HG13	2.16	0.60
20:BA:179:LEU:HD13	20:BA:183:ILE:HG13	1.83	0.60
21:BB:106:VAL:HG13	21:BB:135:ILE:HD13	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:179:LEU:HB3	47:B9:20:SER:HB3	0.62	0.60
21:BB:180:LYS:HD3	21:BB:180:LYS:N	2.16	0.60
22:BC:311:VAL:HG12	22:BC:312:HIS:N	2.10	0.60
22:BC:327:ILE:HG22	22:BC:329:GLY:N	2.17	0.60
24:BE:83:LEU:N	24:BE:83:LEU:HD22	2.16	0.60
24:BE:219:PHE:HE1	24:BE:222:LEU:HB2	1.63	0.60
26:BG:125:SER:H	26:BG:128:PRO:HD2	1.65	0.60
26:BG:130:ALA:HB1	26:BG:202:VAL:H	1.64	0.60
26:BG:130:ALA:CB	26:BG:202:VAL:HB	2.30	0.60
26:BG:135:LEU:HD13	26:BG:135:LEU:O	2.01	0.60
27:BH:18:VAL:O	27:BH:26:LYS:HG3	2.01	0.60
27:BH:78:MET:SD	27:BH:79:ILE:HG13	2.41	0.60
27:BH:129:ARG:HD2	27:BH:156:GLN:NE2	2.17	0.60
28:BI:30:LYS:O	28:BI:66:GLU:HB2	2.01	0.60
28:BI:38:LYS:HB3	28:BI:38:LYS:NZ	2.16	0.60
28:BI:57:LEU:N	28:BI:57:LEU:HD22	2.16	0.60
28:BI:98:ARG:H	28:BI:98:ARG:HD3	1.66	0.60
29:BJ:89:GLN:O	29:BJ:89:GLN:HG2	2.02	0.60
30:BK:78:SER:O	30:BK:82:ILE:HG13	2.02	0.60
31:BL:8:GLU:HG3	31:BL:9:LEU:N	2.16	0.60
31:BL:100:THR:HA	31:BL:103:GLU:OE2	2.02	0.60
31:BL:109:ALA:HB1	31:BL:112:LEU:CD1	2.32	0.60
31:BL:165:ALA:O	31:BL:166:THR:HG23	2.01	0.60
36:BQ:48:ILE:HB	36:BQ:94:GLU:CD	2.22	0.60
40:BU:53:ASP:HB3	40:BU:110:HIS:CB	2.31	0.60
41:BV:111:ILE:HD13	41:BV:111:ILE:N	2.16	0.60
42:B0:19:ARG:HG3	42:B0:33:ARG:NH1	2.16	0.60
42:B0:101:SER:HB2	42:B0:105:ARG:CB	2.32	0.60
43:BW:55:ASN:HD21	43:BW:56:GLN:NE2	1.99	0.60
43:BW:76:ARG:HA	43:BW:82:GLU:HG3	1.83	0.60
45:BY:24:ARG:CG	45:BY:25:SER:H	2.12	0.60
1:AA:239:U:C5	1:AA:240:C:N4	2.68	0.60
1:AA:519:C:OP2	12:AL:67:ALA:HB2	2.01	0.60
1:AA:615:C:O3'	5:AD:149:ARG:HB2	2.01	0.60
1:AA:713:G:N2	11:AK:125:THR:N	2.49	0.60
1:AA:812:C:O2'	1:AA:813:U:OP2	2.18	0.60
1:AA:948:C:OP1	13:AM:143:ARG:O	2.08	0.60
1:AA:1377:A:C6	7:AG:76:TYR:HD2	2.15	0.60
1:AA:1425:U:H2'	1:AA:1426:C:H6	1.67	0.60
2:AT:112:SER:HB2	2:AT:537:HIS:CE1	2.36	0.60
2:AT:731:VAL:HG12	2:AT:770:ALA:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:30:LEU:CD1	5:AD:67:PRO:HG3	2.30	0.60
6:AE:215:VAL:HG23	8:AH:129:TYR:HH	1.66	0.60
9:AI:36:THR:HA	9:AI:39:GLU:CG	2.31	0.60
18:B3:283:U:H5"	18:B3:284:C:OP2	2.02	0.60
18:B3:1163:G:N3	30:BK:52:GLU:OE1	2.32	0.60
18:B3:1167:G:H2'	30:BK:114:ARG:HH11	1.66	0.60
18:B3:1343:C:O2	23:BD:188:ALA:CA	2.50	0.60
18:B3:1671:U:O3'	39:BT:92:TYR:CE1	2.54	0.60
18:B3:1847:A:O2'	47:B9:20:SER:HA	2.02	0.60
18:B3:1939:U:H5'	21:BB:241:ARG:HG3	1.82	0.60
18:B3:2050:G:O5'	33:BN:82:TRP:HE3	1.84	0.60
18:B3:2240:U:O2'	18:B3:2241:C:H5'	2.02	0.60
18:B3:2501:G:C2	28:BI:157:TYR:HE1	2.19	0.60
18:B3:2819:C:O2'	22:BC:91:TYR:CE2	2.54	0.60
19:B4:38:A:P	24:BE:155:THR:CG2	2.75	0.60
20:BA:36:VAL:CG1	20:BA:204:LEU:HD13	2.29	0.60
21:BB:39:TYR:C	21:BB:40:ILE:HD12	2.22	0.60
22:BC:20:ARG:HD3	22:BC:20:ARG:N	2.16	0.60
22:BC:324:LYS:HE3	22:BC:324:LYS:O	1.99	0.60
23:BD:131:ALA:O	23:BD:134:VAL:HB	2.02	0.60
25:BF:202:TRP:HB3	25:BF:203:PRO:CA	2.31	0.60
26:BG:167:ALA:O	26:BG:168:LEU:HG	2.01	0.60
27:BH:10:ILE:CD1	27:BH:52:LEU:HD23	2.30	0.60
28:BI:104:SER:HA	28:BI:116:ARG:O	2.01	0.60
30:BK:101:SER:HB3	30:BK:140:GLY:O	2.01	0.60
31:BL:99:ALA:CA	31:BL:168:LYS:HE3	2.26	0.60
32:BM:17:ARG:HB2	32:BM:121:GLN:CG	2.27	0.60
34:BO:42:ALA:CB	34:BO:134:GLY:HA3	2.31	0.60
35:BP:7:LYS:HZ3	35:BP:8:ARG:HD2	1.64	0.60
37:BR:48:ARG:NE	37:BR:49:LEU:H	1.99	0.60
40:BU:57:LEU:C	40:BU:67:GLU:HG3	2.20	0.60
44:BX:31:LEU:HD11	44:BX:40:SER:OG	2.02	0.60
1:AA:190(E):U:P	16:AQ:137:ASN:HB2	2.40	0.60
1:AA:777:A:H4'	11:AK:125:THR:CA	2.29	0.60
1:AA:860:A:O2'	8:AH:18:LYS:HE3	1.99	0.60
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.37	0.60
1:AA:1176:A:C6	9:AI:108:PHE:O	2.54	0.60
1:AA:1296:C:O2'	13:AM:54:LEU:CB	2.50	0.60
1:AA:1381:U:O2'	1:AA:1382:C:H5'	2.01	0.60
1:AA:1414:U:O2'	1:AA:1415:G:H5'	2.02	0.60
2:AT:418:TYR:HA	2:AT:424:ASP:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:472:SER:HB3	2:AT:475:ALA:HB2	1.83	0.60
3:AB:81:GLY:HA2	3:AB:169:ILE:HD13	1.82	0.60
6:AE:133:LEU:HD22	6:AE:134:SER:H	1.66	0.60
10:AJ:41:ILE:HG22	10:AJ:52:LYS:NZ	2.15	0.60
18:B3:263:U:C4'	26:BG:161:LEU:CD1	2.79	0.60
18:B3:367:G:O2'	18:B3:368:C:O5'	2.16	0.60
18:B3:492:C:O2	33:BN:100:ASN:HB3	2.02	0.60
18:B3:492:C:H1'	33:BN:100:ASN:HA	1.83	0.60
18:B3:796:A:H62	18:B3:817:G:H1'	1.64	0.60
18:B3:843:A:O3'	33:BN:130:ARG:CG	2.43	0.60
18:B3:952:G:H5"	36:BQ:14:MET:HG2	1.82	0.60
18:B3:1566:C:O4'	35:BP:56:VAL:HG11	2.00	0.60
18:B3:1714:C:OP1	18:B3:2745:C:H4'	2.01	0.60
18:B3:2337:G:P	29:BJ:103:PHE:CG	2.94	0.60
18:B3:2549:C:OP2	22:BC:7:ALA:HB2	2.02	0.60
18:B3:2818:A:H5'	22:BC:96:ARG:HB3	1.84	0.60
18:B3:2853:U:P	22:BC:170:LEU:HA	2.41	0.60
19:B4:13:A:OP2	24:BE:11:ALA:HB2	2.00	0.60
22:BC:118:TYR:HA	22:BC:132:TYR:CB	2.32	0.60
22:BC:146:GLU:O	22:BC:149:ARG:HB3	2.02	0.60
22:BC:228:VAL:HG23	22:BC:229:THR:N	2.16	0.60
22:BC:365:GLY:CA	38:BS:35:LYS:CD	2.77	0.60
23:BD:19:LEU:H	23:BD:19:LEU:CD2	2.13	0.60
23:BD:103:LYS:HD2	23:BD:103:LYS:C	2.21	0.60
24:BE:33:ARG:HG3	24:BE:33:ARG:NH1	2.11	0.60
26:BG:111:GLU:HB3	26:BG:213:LEU:HD11	1.83	0.60
26:BG:123:ASP:HB3	26:BG:188:LEU:HD22	1.82	0.60
27:BH:18:VAL:C	27:BH:26:LYS:HD2	2.22	0.60
29:BJ:41:GLY:HA3	29:BJ:74:LYS:NZ	2.16	0.60
29:BJ:69:THR:HG23	29:BJ:70:VAL:N	2.17	0.60
29:BJ:132:ARG:HB2	29:BJ:133:PRO:CB	2.32	0.60
29:BJ:132:ARG:HB2	29:BJ:133:PRO:HB3	1.83	0.60
31:BL:29:TYR:CD1	31:BL:62:ARG:HD3	2.37	0.60
31:BL:53:LYS:HD2	31:BL:53:LYS:O	2.01	0.60
31:BL:67:ARG:HG2	31:BL:125:THR:CB	2.32	0.60
32:BM:19:ALA:HB1	32:BM:83:LEU:CD2	2.27	0.60
32:BM:59:LYS:HE3	32:BM:62:ALA:O	2.02	0.60
34:BO:44:PHE:HE1	34:BO:139:ILE:HG12	1.67	0.60
35:BP:88:LEU:N	35:BP:89:PRO:HD3	2.16	0.60
36:BQ:61:THR:O	36:BQ:76:ILE:HG13	2.01	0.60
39:BT:61:VAL:HG11	39:BT:97:ALA:CB	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:74:LYS:HA	39:BT:74:LYS:HE3	1.81	0.60
40:BU:60:ARG:HG2	40:BU:103:LYS:CB	2.31	0.60
41:BV:77:LEU:O	41:BV:80:LEU:HB3	2.02	0.60
41:BV:78:TRP:HB3	41:BV:117:ILE:HD12	1.83	0.60
41:BV:135:GLU:OE2	41:BV:138:ARG:HG2	2.02	0.60
1:AA:254:G:C1'	16:AQ:79:MET:CE	2.77	0.60
1:AA:751:U:HO2'	15:AO:83:ILE:CD1	2.14	0.60
1:AA:1307:U:O3'	13:AM:145:ARG:CD	2.49	0.60
1:AA:1321:C:C5'	17:AS:118:GLU:CA	2.65	0.60
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.36	0.60
3:AB:74:ALA:HA	3:AB:121:ILE:HG23	1.83	0.60
4:AC:105:LYS:HG3	4:AC:172:ARG:CG	2.32	0.60
5:AD:86:LEU:HD21	5:AD:104:PHE:HD2	1.60	0.60
5:AD:99:LEU:HD22	5:AD:102:GLU:C	2.22	0.60
5:AD:109:LEU:HD22	5:AD:129:ILE:HG13	1.84	0.60
5:AD:175:ARG:O	5:AD:188:ALA:HB3	2.02	0.60
6:AE:145:THR:HG22	6:AE:146:ASN:N	2.16	0.60
11:AK:111:ILE:HG13	11:AK:111:ILE:O	2.02	0.60
15:AO:80:ALA:HB1	15:AO:81:PRO:HD2	1.82	0.60
17:AS:87:PRO:HG3	17:AS:112:LEU:CD2	2.31	0.60
18:B3:262:A:O2'	26:BG:134:GLY:HA3	2.01	0.60
18:B3:263:U:C2	31:BL:40:ARG:HD2	2.35	0.60
18:B3:541:C:H5"	42:B0:14:THR:OG1	2.01	0.60
18:B3:1343:C:OP1	23:BD:192:LYS:HB2	2.00	0.60
19:B4:22:G:O3'	19:B4:23:U:H4'	2.01	0.60
19:B4:26:C:OP2	24:BE:81:HIS:CE1	2.54	0.60
19:B4:86:G:C5'	25:BF:218:LYS:HG3	2.31	0.60
21:BB:26:ALA:O	21:BB:122:ARG:HD2	2.02	0.60
21:BB:52:GLY:N	21:BB:53:ARG:HH21	1.99	0.60
22:BC:20:ARG:HH11	22:BC:20:ARG:CB	2.15	0.60
22:BC:231:ARG:HD3	22:BC:232:TRP:CE3	2.36	0.60
23:BD:186:LEU:HA	23:BD:199:THR:N	2.16	0.60
23:BD:207:VAL:H	23:BD:224:VAL:HG23	1.65	0.60
28:BI:38:LYS:CD	28:BI:40:LYS:HG2	2.29	0.60
29:BJ:68:VAL:HG12	29:BJ:69:THR:N	2.15	0.60
29:BJ:87:GLU:HB3	29:BJ:90:LEU:CA	2.30	0.60
31:BL:13:LYS:HG3	31:BL:13:LYS:O	2.02	0.60
31:BL:82:LYS:HD3	46:BZ:49:PHE:N	2.17	0.60
33:BN:9:ASN:HB3	33:BN:10:PRO:CA	2.31	0.60
33:BN:17:ARG:HB3	33:BN:145:ILE:O	2.02	0.60
33:BN:29:ARG:NH1	33:BN:61:ARG:HH12	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:118:VAL:HG13	33:BN:119:ASN:N	2.15	0.60
35:BP:8:ARG:HH12	35:BP:18:LYS:NZ	1.99	0.60
35:BP:97:ARG:HB2	35:BP:97:ARG:CZ	2.31	0.60
38:BS:23:ARG:CD	38:BS:28:ILE:HG13	2.31	0.60
40:BU:45:ILE:HD13	40:BU:46:LYS:H	1.66	0.60
41:BV:120:VAL:N	41:BV:121:PRO:HA	2.17	0.60
43:BW:13:ILE:HB	43:BW:16:HIS:NE2	2.15	0.60
43:BW:48:VAL:CG1	43:BW:50:LEU:HD23	2.31	0.60
1:AA:99:C:C1'	1:AA:102:G:O6	2.25	0.60
1:AA:390:C:H2'	1:AA:391:G:H8	1.66	0.60
1:AA:405:U:O5'	5:AD:23:ARG:HB2	2.02	0.60
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.02	0.60
1:AA:1178:G:O6	9:AI:111:TYR:CD1	2.54	0.60
4:AC:24:PHE:CA	4:AC:28:LEU:HD23	2.32	0.60
6:AE:151:HIS:HB3	6:AE:193:GLU:CB	2.24	0.60
6:AE:157:THR:CG2	8:AH:129:TYR:CD1	2.81	0.60
7:AG:83:LYS:H	7:AG:83:LYS:CD	2.14	0.60
9:AI:8:THR:HG23	9:AI:8:THR:O	2.01	0.60
9:AI:36:THR:CA	9:AI:39:GLU:HG2	2.32	0.60
9:AI:68:VAL:HG21	9:AI:76:GLN:HB3	1.83	0.60
10:AJ:69:LYS:HB3	14:AN:39:ARG:O	2.02	0.60
18:B3:255:A:H2'	18:B3:256:C:C6	2.37	0.60
18:B3:517:U:H1'	18:B3:1339:G:O2'	2.02	0.60
18:B3:629:A:C5'	42:B0:38:ILE:C	2.70	0.60
18:B3:1732:A:N6	18:B3:2840:A:N3	2.49	0.60
18:B3:1811:A:C2	18:B3:2752:C:N3	2.69	0.60
19:B4:49:G:OP2	24:BE:98:ALA:CB	2.50	0.60
19:B4:85:A:O4'	25:BF:228:PHE:CE2	2.51	0.60
20:BA:174:MET:HB3	20:BA:178:VAL:CG2	2.25	0.60
21:BB:116:GLU:N	21:BB:162:ARG:HD3	2.17	0.60
22:BC:27:ARG:CZ	22:BC:27:ARG:H	2.14	0.60
23:BD:75:ARG:HA	23:BD:81:THR:O	2.01	0.60
25:BF:83:VAL:HG12	25:BF:116:VAL:HB	1.82	0.60
25:BF:85:VAL:O	25:BF:113:GLY:HA2	2.01	0.60
25:BF:167:ILE:HG22	25:BF:168:ILE:H	1.66	0.60
25:BF:188:ILE:HD13	25:BF:188:ILE:O	2.01	0.60
26:BG:112:ALA:HB2	26:BG:121:LYS:HG2	1.84	0.60
26:BG:164:PHE:O	26:BG:168:LEU:HB2	2.00	0.60
27:BH:137:SER:CB	27:BH:141:LYS:HA	2.31	0.60
28:BI:135:ILE:HD12	28:BI:135:ILE:N	2.17	0.60
31:BL:109:ALA:CB	31:BL:112:LEU:HD21	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:84:ARG:CD	32:BM:98:LEU:HD13	2.31	0.60
34:BO:86:THR:HG1	34:BO:106:PHE:HA	1.66	0.60
35:BP:80:ARG:HD2	35:BP:81:LYS:O	2.01	0.60
36:BQ:11:THR:N	36:BQ:12:ARG:HD2	2.16	0.60
37:BR:32:ARG:HD2	37:BR:62:VAL:CB	2.30	0.60
40:BU:63:LYS:HE2	40:BU:85:VAL:CG2	2.31	0.60
42:B0:43:ARG:NH1	42:B0:44:ARG:H	1.99	0.60
45:BY:20:ARG:NE	45:BY:20:ARG:HA	2.15	0.60
47:B9:22:ARG:CZ	47:B9:25:VAL:HB	2.31	0.60
1:AA:404:U:C2	5:AD:19:TYR:CZ	2.88	0.60
1:AA:634:C:OP1	16:AQ:92:TYR:HB2	2.00	0.60
1:AA:947:G:H3'	13:AM:143:ARG:CZ	2.32	0.60
1:AA:1075:C:H5'	3:AB:102:THR:CG2	2.32	0.60
1:AA:1321:C:N3	17:AS:81:ARG:CA	2.63	0.60
1:AA:1475:G:H2'	1:AA:1476:G:C8	2.35	0.60
2:AT:140:GLU:HG3	2:AT:481:MET:N	2.04	0.60
6:AE:165:THR:HB	6:AE:200:ASN:OD1	2.02	0.60
6:AE:187:LEU:O	6:AE:190:ALA:HB3	2.01	0.60
8:AH:101:VAL:HG23	8:AH:126:GLY:O	2.01	0.60
11:AK:65:ASP:OD1	11:AK:69:LYS:HE2	2.01	0.60
13:AM:91:ASP:C	13:AM:109:LEU:CG	2.65	0.60
15:AO:87:LEU:O	15:AO:91:ILE:HG23	2.01	0.60
18:B3:219:G:C4'	46:BZ:52:GLN:HG3	2.26	0.60
18:B3:265:U:H5"	31:BL:55:LYS:CD	2.31	0.60
18:B3:1166:G:C4	30:BK:107:ASP:OD2	2.55	0.60
18:B3:1267:C:O2'	42:B0:61:LYS:CG	2.50	0.60
18:B3:1312:G:H1	23:BD:186:LEU:HD11	0.52	0.60
18:B3:1316:G:P	42:B0:104:ASN:O	2.60	0.60
18:B3:1507:C:C5'	39:BT:74:LYS:HD2	2.32	0.60
18:B3:1672:G:C3'	39:BT:91:LYS:HG3	2.31	0.60
18:B3:1707:G:OP1	35:BP:79:LYS:HD2	2.02	0.60
18:B3:2345:A:O3'	29:BJ:48:LYS:CD	2.46	0.60
18:B3:2663:U:O2	18:B3:2816:A:N9	2.33	0.60
18:B3:2678:A:H4'	22:BC:13:LEU:CD1	2.32	0.60
18:B3:2837:U:H4'	22:BC:332:LYS:CE	2.31	0.60
20:BA:54:LYS:NZ	20:BA:153:SER:HB2	2.17	0.60
20:BA:57:ASN:CG	20:BA:155:ILE:HD12	2.21	0.60
22:BC:112:GLU:HA	22:BC:114:LYS:NZ	2.16	0.60
22:BC:220:THR:N	22:BC:272:HIS:HB2	2.09	0.60
24:BE:32:GLN:O	24:BE:33:ARG:HG3	2.01	0.60
24:BE:34:LYS:NZ	36:BQ:27:LEU:CB	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:132:LYS:HG2	26:BG:141:LEU:HD23	1.84	0.60
26:BG:138:VAL:HG21	26:BG:198:ALA:CB	2.09	0.60
27:BH:108:GLY:C	27:BH:111:PHE:HD2	2.04	0.60
28:BI:49:CYS:CB	28:BI:168:SER:HB3	2.32	0.60
28:BI:52:LEU:O	28:BI:134:ILE:HA	2.02	0.60
29:BJ:75:ALA:HB2	29:BJ:78:ILE:HD11	1.84	0.60
35:BP:24:ASP:OD2	35:BP:27:GLU:HG3	2.02	0.60
37:BR:60:ALA:N	37:BR:74:MET:HG3	2.17	0.60
39:BT:74:LYS:CE	39:BT:78:GLY:HA3	2.31	0.60
42:B0:42:VAL:HG23	42:B0:49:ASN:ND2	2.16	0.60
43:BW:31:ALA:CB	43:BW:58:ILE:HD11	2.31	0.60
46:BZ:88:LYS:HD3	46:BZ:89:HIS:CB	2.30	0.60
1:AA:21:G:C5'	1:AA:884:U:O3'	2.49	0.60
1:AA:99:C:C1'	1:AA:102:G:C6	2.85	0.60
1:AA:130:A:H8	16:AQ:135:ARG:HA	0.86	0.60
1:AA:254:G:C5'	16:AQ:79:MET:CE	2.79	0.60
1:AA:292:G:H21	1:AA:609:A:H1'	1.65	0.60
1:AA:562:C:C2	12:AL:32:ARG:CB	2.07	0.60
1:AA:580:U:P	15:AO:112:PHE:HZ	2.25	0.60
1:AA:689:C:OP1	11:AK:50:ASP:CA	2.42	0.60
1:AA:959:A:H3'	1:AA:960:U:H5"	1.83	0.60
1:AA:970:C:N4	9:AI:142:ARG:HE	1.87	0.60
1:AA:1306:A:O2'	13:AM:144:ARG:HG3	2.02	0.60
1:AA:1329:A:C6	13:AM:94:ASP:CA	2.69	0.60
1:AA:1473:A:O2'	18:B3:1780:G:H4'	2.02	0.60
2:AT:112:SER:HB3	2:AT:537:HIS:HB2	1.83	0.60
3:AB:122:VAL:CG1	3:AB:144:ALA:HB2	2.31	0.60
3:AB:125:PRO:HG3	3:AB:146:THR:OG1	2.01	0.60
4:AC:180:VAL:C	4:AC:181:LEU:HD12	2.22	0.60
6:AE:206:LEU:H	6:AE:206:LEU:CD2	2.14	0.60
12:AL:107:PHE:HB3	12:AL:123:LYS:CD	2.28	0.60
18:B3:621:C:OP2	42:B0:36:LYS:C	2.28	0.60
18:B3:952:G:C5'	36:BQ:14:MET:SD	2.90	0.60
18:B3:1024:G:C2'	25:BF:104:LEU:HD11	2.30	0.60
18:B3:1154:A:C8	18:B3:1156:C:N1	2.67	0.60
18:B3:1247:A:N6	32:BM:17:ARG:NH1	2.50	0.60
18:B3:1449:G:P	39:BT:110:ASN:ND2	2.75	0.60
18:B3:1713:G:O2'	18:B3:2745:C:O2'	2.19	0.60
18:B3:2531:U:H2'	18:B3:2533:C:C6	2.37	0.60
18:B3:2566:A:H5'	27:BH:174:LYS:NZ	2.12	0.60
19:B4:6:C:C3'	24:BE:28:THR:HG21	2.18	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:69:U:H1'	24:BE:14:SER:HG	1.60	0.60
20:BA:165:LEU:HD12	20:BA:165:LEU:O	2.01	0.60
21:BB:61:VAL:HG13	21:BB:62:PHE:N	2.16	0.60
21:BB:147:VAL:CG2	21:BB:155:LYS:H	2.15	0.60
21:BB:174:VAL:HG23	21:BB:176:LYS:O	2.02	0.60
22:BC:20:ARG:HH11	22:BC:20:ARG:HB2	1.67	0.60
22:BC:143:ILE:HG22	22:BC:147:LEU:HD13	1.84	0.60
23:BD:191:GLY:CA	23:BD:197:ARG:HD2	2.31	0.60
23:BD:207:VAL:HG23	23:BD:236:GLN:HG2	1.83	0.60
24:BE:163:LEU:HD23	24:BE:167:SER:HG	1.67	0.60
24:BE:180:PHE:HB3	24:BE:181:PRO:HD2	1.83	0.60
24:BE:208:MET:HB2	24:BE:211:LEU:HD22	1.83	0.60
25:BF:221:HIS:HD2	25:BF:223:ILE:H	1.49	0.60
26:BG:115:VAL:HG22	26:BG:116:ALA:N	2.15	0.60
26:BG:125:SER:H	26:BG:128:PRO:CG	2.15	0.60
27:BH:10:ILE:O	27:BH:52:LEU:HB3	2.02	0.60
27:BH:26:LYS:HG2	27:BH:27:VAL:N	2.17	0.60
27:BH:118:LEU:HD13	27:BH:177:ASP:OD2	2.01	0.60
27:BH:153:ASP:OD1	27:BH:154:VAL:HG13	2.01	0.60
28:BI:6:ALA:CB	28:BI:10:ARG:HE	2.14	0.60
30:BK:113:ALA:HA	30:BK:132:ILE:CD1	2.31	0.60
31:BL:76:LYS:HE3	31:BL:77:GLY:O	2.02	0.60
31:BL:154:VAL:HG12	31:BL:158:ARG:HA	1.81	0.60
31:BL:163:LEU:HD13	31:BL:164:THR:CG2	2.24	0.60
32:BM:5:VAL:HG13	32:BM:6:VAL:N	2.11	0.60
32:BM:83:LEU:HB3	32:BM:84:ARG:NH1	2.17	0.60
33:BN:59:PHE:CZ	33:BN:80:ALA:HA	2.25	0.60
34:BO:60:PRO:HB2	34:BO:61:PRO:CA	2.31	0.60
35:BP:16:VAL:HB	35:BP:20:LYS:HD3	1.81	0.60
35:BP:50:VAL:O	35:BP:51:LYS:HE3	2.02	0.60
36:BQ:97:LYS:HE3	36:BQ:98:HIS:CD2	2.37	0.60
37:BR:58:VAL:HG22	37:BR:76:ALA:O	2.01	0.60
40:BU:80:VAL:HG22	40:BU:81:GLN:N	2.17	0.60
42:B0:35:GLN:NE2	42:B0:43:ARG:HD2	2.16	0.60
43:BW:15:LEU:HD12	43:BW:15:LEU:N	2.17	0.60
1:AA:193:C:H2'	1:AA:194:C:C6	2.37	0.60
1:AA:335:C:O2'	1:AA:1433:A:C2'	2.41	0.60
1:AA:402:G:H1'	1:AA:621:A:C5	2.35	0.60
1:AA:621:A:OP2	5:AD:143:ILE:HG23	2.02	0.60
1:AA:949:A:C3'	13:AM:141:THR:OG1	2.45	0.60
1:AA:1330:U:C2	13:AM:93:THR:C	2.75	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.36	0.60
1:AA:1497:G:C2	1:AA:1518:A:C4	2.89	0.60
2:AT:91:GLN:HE22	2:AT:344:SER:N	1.99	0.60
2:AT:108:HIS:CE1	2:AT:540:ILE:HG13	2.25	0.60
2:AT:237:LYS:O	2:AT:241:MET:HG2	2.02	0.60
2:AT:465:LYS:HZ3	2:AT:518:VAL:HG11	1.67	0.60
9:AI:114:THR:HG22	9:AI:117:ILE:CG2	2.30	0.60
11:AK:52:ASP:OD1	11:AK:53:GLU:HA	2.01	0.60
13:AM:29:VAL:HG13	13:AM:43:SER:HB2	1.84	0.60
18:B3:514:G:OP1	18:B3:514:G:H3'	2.02	0.60
18:B3:646:G:C5'	23:BD:106:ARG:HH22	2.15	0.60
18:B3:844:A:C4'	33:BN:133:GLY:CA	2.80	0.60
18:B3:904:U:OP2	41:BV:13:HIS:O	2.19	0.60
18:B3:1277:C:H5"	34:BO:34:THR:CG2	2.28	0.60
18:B3:1300:G:N1	18:B3:1330:A:C6	2.70	0.60
18:B3:1350:U:OP1	23:BD:110:VAL:CG1	2.35	0.60
18:B3:1557:G:O2'	18:B3:1558:C:H5'	2.02	0.60
18:B3:1689:A:H2'	33:BN:128:THR:HG21	1.83	0.60
18:B3:1741:U:H4'	18:B3:2723:G:O3'	1.93	0.60
18:B3:2408:A:N3	46:BZ:19:HIS:NE2	2.50	0.60
18:B3:2526:C:H5"	18:B3:2605:G:C4'	2.30	0.60
18:B3:2748:G:O2'	18:B3:2749:U:OP2	2.20	0.60
19:B4:5:G:HO2'	24:BE:50:ARG:HH22	1.46	0.60
19:B4:47:A:H5"	24:BE:153:THR:HA	1.84	0.60
21:BB:191:LYS:HZ2	21:BB:191:LYS:HB2	1.67	0.60
22:BC:84:VAL:HG13	22:BC:164:GLN:NE2	2.15	0.60
22:BC:163:THR:H	22:BC:177:LEU:HD23	1.67	0.60
22:BC:210:GLN:HG3	22:BC:284:VAL:HG23	1.84	0.60
23:BD:136:ALA:CB	23:BD:137:ARG:HH21	2.08	0.60
24:BE:34:LYS:NZ	36:BQ:27:LEU:HB3	2.17	0.60
24:BE:151:GLN:OE1	24:BE:159:VAL:HG21	2.01	0.60
26:BG:141:LEU:HD22	26:BG:147:ALA:HB2	1.83	0.60
27:BH:140:VAL:HG23	27:BH:141:LYS:H	1.67	0.60
28:BI:152:LEU:N	28:BI:154:ARG:HH21	1.95	0.60
34:BO:33:TYR:CD2	34:BO:48:VAL:HG13	2.36	0.60
34:BO:67:ILE:HG22	34:BO:94:PHE:HE2	1.67	0.60
35:BP:37:ARG:HH22	35:BP:40:ILE:HD13	1.63	0.60
37:BR:96:GLU:HB3	37:BR:97:ASP:O	2.01	0.60
40:BU:38:GLU:HA	40:BU:40:ARG:HH21	1.66	0.60
45:BY:27:HIS:HB2	45:BY:30:LYS:CB	2.31	0.60
45:BY:29:GLN:O	45:BY:30:LYS:HB3	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:294:U:P	1:AA:610:G:H1'	2.37	0.59
1:AA:476:G:O2'	1:AA:477:G:H5'	2.02	0.59
1:AA:676:A:H3'	11:AK:120:VAL:HA	1.84	0.59
1:AA:678:U:H1'	11:AK:125:THR:CG2	2.28	0.59
1:AA:1240:U:H5'	7:AG:188:THR:CG2	2.32	0.59
1:AA:1308:U:N1	13:AM:93:THR:OG1	2.33	0.59
1:AA:1318:A:C5	17:AS:56:PHE:CZ	2.76	0.59
1:AA:1343:G:H4'	9:AI:136:ARG:O	2.01	0.59
4:AC:43:THR:HB	4:AC:81:GLY:HA3	1.84	0.59
7:AG:215:GLU:O	7:AG:219:VAL:HG23	2.01	0.59
8:AH:30:SER:H	8:AH:33:ILE:HG22	1.65	0.59
10:AJ:69:LYS:HE3	14:AN:39:ARG:HH12	1.67	0.59
16:AQ:74:VAL:HG11	16:AQ:83:ILE:HD11	1.81	0.59
17:AS:93:VAL:HG11	17:AS:104:GLN:HG3	1.82	0.59
18:B3:263:U:O2	31:BL:40:ARG:CD	2.50	0.59
18:B3:525:G:OP1	33:BN:33:GLN:CG	2.50	0.59
18:B3:561:G:H2'	18:B3:562:A:H8	1.67	0.59
18:B3:820:G:H4'	18:B3:856:G:H5'	1.84	0.59
18:B3:946:C:H5'	25:BF:124:GLU:CB	2.32	0.59
18:B3:1794:G:H4'	35:BP:96:ARG:HB3	1.81	0.59
18:B3:1810:C:C1'	18:B3:2753:G:H1'	2.29	0.59
18:B3:2633:A:OP1	21:BB:213:GLY:CA	2.49	0.59
18:B3:2720:C:O2	37:BR:84:SER:HB2	2.02	0.59
19:B4:6:C:P	24:BE:28:THR:HA	2.42	0.59
19:B4:51:A:N3	24:BE:58:LYS:CD	2.64	0.59
20:BA:85:MET:SD	20:BA:93:LEU:HD12	2.41	0.59
21:BB:9:LYS:HA	21:BB:15:PHE:CE2	2.37	0.59
21:BB:110:THR:HG22	21:BB:135:ILE:HG21	1.84	0.59
21:BB:115:VAL:CG2	21:BB:125:LEU:HD13	2.15	0.59
23:BD:125:ILE:HD12	23:BD:255:THR:HG21	1.84	0.59
23:BD:151:VAL:CG2	23:BD:248:ILE:HD11	2.31	0.59
23:BD:184:LYS:CB	23:BD:199:THR:HG22	2.32	0.59
24:BE:63:GLN:HG3	24:BE:74:VAL:HG21	1.83	0.59
25:BF:179:SER:O	25:BF:180:ILE:HG23	2.02	0.59
25:BF:238:LEU:O	25:BF:238:LEU:HD23	2.02	0.59
26:BG:129:TYR:CD1	26:BG:202:VAL:HG11	2.37	0.59
26:BG:156:VAL:HG12	26:BG:157:ASP:O	2.02	0.59
28:BI:153:ARG:HB3	28:BI:153:ARG:HH11	1.67	0.59
32:BM:136:THR:C	32:BM:137:LEU:HD12	2.23	0.59
36:BQ:42:ILE:HA	36:BQ:95:HIS:ND1	2.17	0.59
37:BR:57:MET:HE3	37:BR:126:TRP:HZ2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:85:TRP:HD1	37:BR:93:LEU:O	1.84	0.59
37:BR:95:PHE:CE2	38:BS:23:ARG:HG3	2.37	0.59
39:BT:102:TYR:HD2	39:BT:104:VAL:HG23	1.68	0.59
40:BU:17:LYS:HZ3	40:BU:17:LYS:HB2	1.66	0.59
42:B0:19:ARG:HG2	42:B0:33:ARG:N	2.11	0.59
43:BW:77:LYS:NZ	43:BW:82:GLU:HB3	2.17	0.59
47:B9:38:CYS:SG	47:B9:61:LYS:HG3	2.42	0.59
1:AA:97:G:OP2	1:AA:383:A:H2	1.85	0.59
1:AA:598:U:H1'	8:AH:88:TRP:CH2	2.36	0.59
1:AA:1111:A:H61	4:AC:161:GLN:CD	2.05	0.59
1:AA:1178:G:N1	9:AI:111:TYR:CE1	2.69	0.59
1:AA:1373:G:H1'	7:AG:104:GLY:HA3	1.84	0.59
2:AT:464:LEU:HD22	2:AT:510:ARG:CB	2.30	0.59
3:AB:164:ARG:HG2	3:AB:165:GLY:N	2.18	0.59
4:AC:39:ARG:HE	10:AJ:110:PRO:CB	2.11	0.59
4:AC:122:VAL:HG12	4:AC:135:VAL:HG23	1.83	0.59
5:AD:24:LEU:O	5:AD:27:GLU:HG2	2.01	0.59
7:AG:132:VAL:HG23	7:AG:133:VAL:N	2.17	0.59
8:AH:16:ALA:CB	8:AH:24:VAL:HG21	2.31	0.59
10:AJ:74:GLU:O	14:AN:37:ILE:CG2	2.43	0.59
11:AK:132:ARG:HG3	11:AK:132:ARG:O	2.02	0.59
18:B3:107:U:N1	44:BX:56:THR:HB	2.17	0.59
18:B3:745:G:H21	41:BV:76:LYS:HE3	1.68	0.59
18:B3:875:A:H1'	21:BB:203:MET:CE	2.31	0.59
18:B3:926:A:N9	41:BV:45:ASP:OD2	2.31	0.59
18:B3:1058:A:N6	28:BI:106:ALA:O	2.23	0.59
18:B3:1310:U:O4	23:BD:201:ARG:C	2.41	0.59
18:B3:1342:C:H42	23:BD:186:LEU:CG	2.03	0.59
18:B3:1378:G:C6	18:B3:2748:G:N7	2.70	0.59
18:B3:1477:C:H5'	18:B3:1868:G:C5'	2.32	0.59
18:B3:1810:C:N3	18:B3:2753:G:N9	2.50	0.59
18:B3:1812:G:O4'	18:B3:2732:U:C4'	2.49	0.59
18:B3:2578:G:C8	18:B3:2801:A:C4'	2.84	0.59
18:B3:2720:C:OP1	38:BS:33:ASN:CB	2.48	0.59
18:B3:2756:U:H3	18:B3:2896:A:H2	1.41	0.59
21:BB:62:PHE:CB	21:BB:66:TYR:HD1	2.09	0.59
21:BB:157:ILE:HG23	21:BB:157:ILE:O	2.02	0.59
22:BC:57:ARG:HH11	22:BC:72:VAL:CG2	2.14	0.59
22:BC:165:ILE:HD12	22:BC:165:ILE:N	2.17	0.59
22:BC:302:LYS:HB3	22:BC:316:ILE:O	2.02	0.59
23:BD:149:LEU:HD22	23:BD:246:PHE:CZ	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:46:THR:HG21	24:BE:49:TYR:CB	2.30	0.59
24:BE:108:ARG:O	24:BE:112:ARG:HG3	2.02	0.59
25:BF:100:LYS:NZ	25:BF:104:LEU:HD22	2.17	0.59
25:BF:111:ASN:ND2	25:BF:208:ASN:HB2	2.17	0.59
26:BG:161:LEU:CG	31:BL:3:TYR:OH	2.50	0.59
30:BK:62:LEU:HD23	30:BK:72:SER:CB	2.27	0.59
31:BL:82:LYS:HZ1	46:BZ:49:PHE:HB3	1.67	0.59
43:BW:58:ILE:HG23	43:BW:59:TRP:NE1	2.16	0.59
1:AA:255:G:C4'	16:AQ:80:HIS:HB2	2.32	0.59
1:AA:292:G:C3'	1:AA:609:A:C6	2.84	0.59
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.67	0.59
1:AA:1240:U:H5'	7:AG:188:THR:HA	0.61	0.59
1:AA:1348:U:H4'	9:AI:134:ARG:HG3	0.61	0.59
1:AA:1405:G:N1	1:AA:1518:A:N3	2.50	0.59
2:AT:141:THR:HG23	2:AT:483:PHE:CD2	2.38	0.59
2:AT:710:ARG:NH1	2:AT:714:TYR:OH	2.36	0.59
3:AB:171:LEU:HA	3:AB:174:TYR:HE2	1.66	0.59
7:AG:91:ARG:CG	7:AG:92:LEU:HD12	2.32	0.59
9:AI:98:GLU:N	9:AI:104:LEU:N	2.51	0.59
10:AJ:82:TYR:CZ	14:AN:43:ARG:NH1	2.70	0.59
10:AJ:96:PRO:HB3	10:AJ:99:ILE:HD12	1.84	0.59
13:AM:89:GLN:HG3	13:AM:109:LEU:CA	2.28	0.59
17:AS:58:LYS:HG2	17:AS:59:LYS:N	2.16	0.59
18:B3:35:U:C5'	23:BD:49:TYR:CA	2.79	0.59
18:B3:74:A:H2'	18:B3:75:U:H6	1.67	0.59
18:B3:1226:G:C5'	18:B3:1246:A:N6	2.63	0.59
18:B3:1349:G:C3'	23:BD:43:LYS:HB2	1.97	0.59
18:B3:1398:G:C4'	35:BP:25:PRO:HD3	2.31	0.59
18:B3:1848:G:OP2	21:BB:178:LEU:HD23	2.02	0.59
18:B3:2346:C:HO2'	29:BJ:66:VAL:C	1.93	0.59
18:B3:2347:C:H6	29:BJ:66:VAL:HG12	1.09	0.59
18:B3:2507:G:H2'	18:B3:2510:C:H42	1.67	0.59
18:B3:2734:G:H5"	35:BP:79:LYS:HA	1.83	0.59
18:B3:2764:C:OP1	37:BR:85:TRP:HA	2.02	0.59
18:B3:2822:C:OP1	22:BC:135:LYS:O	2.19	0.59
18:B3:2830:U:C2	22:BC:126:LYS:HD3	2.37	0.59
19:B4:96:C:N3	25:BF:220:LYS:CE	2.66	0.59
20:BA:77:ALA:HB1	20:BA:82:VAL:HG23	1.83	0.59
21:BB:179:LEU:CA	47:B9:20:SER:CB	2.80	0.59
21:BB:190:LEU:HD23	21:BB:191:LYS:N	2.17	0.59
22:BC:89:VAL:HG12	22:BC:103:THR:HG22	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:112:GLU:CG	22:BC:173:LYS:HA	2.32	0.59
22:BC:220:THR:HG22	22:BC:272:HIS:HB2	1.83	0.59
22:BC:251:ILE:HG23	22:BC:263:VAL:HG21	1.83	0.59
22:BC:260:MET:CB	32:BM:66:THR:CB	2.80	0.59
23:BD:137:ARG:NE	23:BD:137:ARG:H	2.00	0.59
24:BE:106:ALA:HB2	24:BE:166:ALA:CA	2.24	0.59
25:BF:233:GLU:OE1	25:BF:236:ASN:HB2	2.02	0.59
27:BH:106:LYS:HG3	27:BH:108:GLY:H	1.67	0.59
27:BH:134:ILE:CD1	27:BH:146:LEU:HD12	2.32	0.59
29:BJ:36:LEU:HD22	29:BJ:67:HIS:NE2	2.17	0.59
29:BJ:83:LEU:CD1	29:BJ:166:TYR:HE1	2.13	0.59
31:BL:57:GLY:HA2	31:BL:135:ASP:OD2	2.02	0.59
32:BM:123:LEU:HB2	32:BM:125:VAL:CG2	2.22	0.59
33:BN:9:ASN:CG	33:BN:11:ALA:HB3	2.22	0.59
35:BP:41:ARG:H	35:BP:43:LEU:CD2	2.15	0.59
36:BQ:39:ILE:HD11	36:BQ:99:SER:CB	2.32	0.59
37:BR:22:ILE:HD12	37:BR:22:ILE:N	2.17	0.59
41:BV:86:ARG:HG2	41:BV:87:ASP:N	2.17	0.59
41:BV:121:PRO:HG3	41:BV:140:ALA:HB1	1.84	0.59
41:BV:123:ILE:HG22	41:BV:142:GLY:H	1.66	0.59
42:B0:55:ILE:HD12	42:B0:55:ILE:O	1.98	0.59
44:BX:10:ARG:HB3	44:BX:10:ARG:HH11	1.66	0.59
44:BX:20:GLN:HA	44:BX:23:ASP:OD2	2.02	0.59
1:AA:11:G:O2'	1:AA:525:C:C1'	2.49	0.59
1:AA:255:G:H4'	16:AQ:80:HIS:O	2.00	0.59
1:AA:402:G:C1'	1:AA:620:C:C5	2.68	0.59
1:AA:634:C:H6	16:AQ:92:TYR:HE2	1.49	0.59
1:AA:991:U:OP2	1:AA:1212:U:C4	2.55	0.59
1:AA:1125:U:N3	10:AJ:23:ARG:NE	2.21	0.59
1:AA:1177:G:H5"	9:AI:106:LYS:N	2.17	0.59
1:AA:1296:C:H5"	13:AM:52:VAL:CA	2.28	0.59
1:AA:1298:C:H41	7:AG:184:ARG:NH1	1.93	0.59
1:AA:1484:C:O2	18:B3:2001:G:H4'	1.89	0.59
1:AA:1504:G:P	1:AA:1507:A:C8	2.91	0.59
2:AT:738:GLN:N	18:B3:1199:A:H61	2.00	0.59
3:AB:26:ARG:CB	3:AB:44:VAL:HG12	2.18	0.59
4:AC:20:LEU:HG	4:AC:76:PHE:CE1	2.38	0.59
4:AC:119:TYR:O	4:AC:122:VAL:HG22	2.02	0.59
6:AE:115:LYS:HE3	6:AE:130:ILE:HB	1.84	0.59
6:AE:157:THR:CG2	8:AH:127:PHE:HE1	2.03	0.59
7:AG:129:ILE:O	7:AG:132:VAL:HG22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:26:PHE:HD1	11:AK:41:VAL:CG1	2.15	0.59
11:AK:41:VAL:HG23	11:AK:43:GLY:N	2.17	0.59
12:AL:59:ILE:HD11	12:AL:117:ILE:HB	1.85	0.59
12:AL:125:VAL:HG22	12:AL:128:SER:H	1.67	0.59
15:AO:90:LEU:HB3	15:AO:121:ILE:CD1	2.32	0.59
18:B3:256:C:H2'	18:B3:257:G:O4'	2.02	0.59
18:B3:1477:C:O2'	18:B3:1478:U:H5'	2.03	0.59
18:B3:1636:G:O2'	18:B3:1637:A:H5'	2.02	0.59
18:B3:1857:A:OP1	21:BB:117:GLU:OE1	2.20	0.59
18:B3:2112:A:H2'	18:B3:2113:G:C8	2.37	0.59
18:B3:2165:G:C3'	20:BA:33:GLU:HB3	2.33	0.59
18:B3:2334:C:C4	29:BJ:114:LYS:C	2.72	0.59
18:B3:2346:C:O2'	29:BJ:65:ALA:C	2.41	0.59
18:B3:2533:C:H5'	18:B3:2533:C:H6	1.66	0.59
18:B3:2578:G:C8	18:B3:2801:A:C5'	2.86	0.59
18:B3:2663:U:C2	18:B3:2816:A:C2	2.91	0.59
18:B3:2738:G:C3'	35:BP:60:SER:HA	2.33	0.59
18:B3:2830:U:C6	22:BC:125:LYS:NZ	2.62	0.59
21:BB:83:THR:HG1	47:B9:62:THR:CG2	2.16	0.59
21:BB:179:LEU:HD11	47:B9:22:ARG:HD3	1.85	0.59
21:BB:199:ARG:CZ	21:BB:202:ALA:HB2	2.33	0.59
22:BC:48:TYR:CG	22:BC:49:LYS:N	2.70	0.59
22:BC:49:LYS:HD2	22:BC:50:ALA:C	2.21	0.59
22:BC:118:TYR:CB	22:BC:132:TYR:HD1	2.15	0.59
24:BE:24:ARG:HG2	24:BE:25:GLU:N	2.17	0.59
24:BE:110:LEU:HD21	24:BE:171:LEU:HB3	1.85	0.59
25:BF:147:VAL:HG11	25:BF:184:ILE:HG21	1.84	0.59
26:BG:183:ALA:HA	26:BG:194:SER:HB3	1.84	0.59
28:BI:10:ARG:HB2	28:BI:58:GLU:O	2.02	0.59
30:BK:22:VAL:HG23	30:BK:43:GLY:HA3	1.83	0.59
30:BK:50:THR:O	30:BK:50:THR:HG22	2.03	0.59
31:BL:97:LEU:HD22	31:BL:97:LEU:N	2.13	0.59
31:BL:168:LYS:CD	31:BL:169:LYS:HZ2	2.14	0.59
32:BM:84:ARG:HE	32:BM:87:VAL:HG21	1.65	0.59
33:BN:17:ARG:HD2	33:BN:93:LEU:HB2	1.82	0.59
33:BN:107:ASP:O	33:BN:111:LEU:HD22	2.01	0.59
36:BQ:92:ARG:NE	36:BQ:92:ARG:HA	2.18	0.59
37:BR:34:LEU:H	37:BR:34:LEU:CD1	2.12	0.59
39:BT:98:VAL:CG1	39:BT:106:VAL:HG11	2.30	0.59
40:BU:85:VAL:HG13	40:BU:86:THR:N	2.16	0.59
1:AA:124:G:C5'	1:AA:290:C:O2	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:362:G:O2'	12:AL:78:LYS:CD	2.50	0.59
1:AA:402:G:H8	1:AA:621:A:N3	1.92	0.59
1:AA:1308:U:OP1	13:AM:145:ARG:NE	2.25	0.59
3:AB:28:VAL:HA	3:AB:148:LEU:HG	1.83	0.59
4:AC:83:ILE:HG22	4:AC:84:VAL:N	2.17	0.59
5:AD:99:LEU:CD2	5:AD:107:ARG:HB2	2.32	0.59
5:AD:150:LEU:HD12	5:AD:150:LEU:H	1.67	0.59
11:AK:42:THR:OG1	11:AK:58:ALA:HB1	2.01	0.59
13:AM:85:PHE:CA	13:AM:100:THR:HB	2.25	0.59
17:AS:124:THR:HG21	17:AS:126:VAL:HG22	1.83	0.59
18:B3:517:U:H5'	18:B3:1340:G:P	2.42	0.59
18:B3:709:G:O3'	34:BO:44:PHE:CD2	2.56	0.59
18:B3:721:A:H5'	34:BO:72:LYS:N	2.04	0.59
18:B3:1241:G:H21	32:BM:86:MET:HG2	1.67	0.59
18:B3:2166:G:O6	20:BA:61:PRO:CD	2.50	0.59
18:B3:2214:A:C4	20:BA:106:LYS:CE	2.85	0.59
18:B3:2347:C:O2'	29:BJ:17:VAL:CG2	2.51	0.59
18:B3:2614:C:O2'	22:BC:239:ARG:C	2.39	0.59
18:B3:2817:G:O2'	22:BC:96:ARG:CB	2.29	0.59
20:BA:36:VAL:HG22	20:BA:204:LEU:CD1	2.32	0.59
22:BC:39:PRO:CD	22:BC:190:LYS:HB3	2.31	0.59
25:BF:139:SER:O	25:BF:142:THR:HB	2.02	0.59
25:BF:168:ILE:HD12	25:BF:168:ILE:N	2.16	0.59
26:BG:142:ILE:HD13	26:BG:172:MET:SD	2.42	0.59
27:BH:63:LYS:CE	32:BM:129:LYS:CD	2.74	0.59
28:BI:52:LEU:HD13	28:BI:52:LEU:N	2.17	0.59
29:BJ:15:LYS:NZ	29:BJ:15:LYS:HB2	2.17	0.59
30:BK:22:VAL:CG2	30:BK:43:GLY:HA3	2.32	0.59
33:BN:6:THR:HG22	33:BN:7:SER:N	2.18	0.59
33:BN:116:ILE:HD13	33:BN:116:ILE:N	2.18	0.59
33:BN:127:ARG:HG2	33:BN:138:TYR:HB3	1.84	0.59
34:BO:64:VAL:CG2	34:BO:89:ASP:HA	2.30	0.59
35:BP:100:VAL:HG23	35:BP:101:LEU:N	2.18	0.59
40:BU:88:GLU:HA	40:BU:88:GLU:OE1	2.01	0.59
40:BU:100:HIS:HD2	40:BU:101:PRO:HA	1.68	0.59
42:B0:76:VAL:CG2	42:B0:94:ALA:HB1	2.32	0.59
42:B0:108:ILE:HG23	42:B0:108:ILE:O	2.02	0.59
43:BW:22:VAL:HG12	43:BW:24:PHE:H	1.67	0.59
1:AA:11:G:O2'	1:AA:525:C:O2'	2.20	0.59
1:AA:190(D):U:C2'	16:AQ:109:HIS:O	2.51	0.59
1:AA:405:U:OP2	5:AD:37:LYS:CG	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:405:U:O2'	5:AD:25:ASP:N	2.31	0.59
1:AA:519:C:H5"	12:AL:67:ALA:HB1	1.84	0.59
1:AA:567:G:OP1	6:AE:201:GLY:CA	2.50	0.59
1:AA:988:G:C6	1:AA:1015:A:C2	2.88	0.59
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.33	0.59
1:AA:1068:G:O5'	1:AA:1388:C:H5'	2.02	0.59
1:AA:1182:G:H4'	1:AA:1183:A:O5'	2.02	0.59
3:AB:141:PRO:CA	8:AH:68:LEU:HD13	2.24	0.59
4:AC:17:TYR:OH	4:AC:40:VAL:HB	2.02	0.59
4:AC:55:GLN:HG3	4:AC:56:ASP:N	2.17	0.59
5:AD:156:ILE:CB	5:AD:164:PHE:HZ	2.13	0.59
5:AD:178:ALA:HA	5:AD:185:GLY:HA2	1.84	0.59
10:AJ:72:ASN:OD1	14:AN:26:HIS:HA	2.02	0.59
18:B3:745:G:N7	34:BO:90:ASP:OD2	2.36	0.59
18:B3:765:G:OP1	23:BD:84:SER:HB3	1.46	0.59
18:B3:1227:C:P	32:BM:48:ARG:HH21	2.26	0.59
18:B3:1397:C:O2'	35:BP:23:LEU:CG	2.48	0.59
18:B3:1497:G:H4'	18:B3:1627:G:O2'	2.03	0.59
18:B3:1735:C:H6	22:BC:245:LEU:HD21	1.68	0.59
18:B3:2214:A:C1'	20:BA:103:LEU:HD12	2.32	0.59
18:B3:2337:G:OP2	29:BJ:103:PHE:CB	2.50	0.59
18:B3:2468:A:N9	46:BZ:55:PRO:HG3	2.17	0.59
20:BA:6:SER:O	20:BA:10:ARG:HG3	2.03	0.59
21:BB:17:SER:HB3	21:BB:192:ARG:CG	2.10	0.59
22:BC:189:GLU:CG	22:BC:190:LYS:HE2	2.31	0.59
22:BC:313:TYR:CE1	22:BC:332:LYS:HB2	2.38	0.59
23:BD:114:HIS:O	23:BD:117:LYS:HB3	2.02	0.59
23:BD:130:VAL:CG1	23:BD:134:VAL:HG23	2.32	0.59
24:BE:64:ILE:HG23	24:BE:64:ILE:O	2.03	0.59
24:BE:111:GLN:HG2	24:BE:115:LEU:HD12	1.85	0.59
26:BG:125:SER:N	26:BG:128:PRO:HD2	2.17	0.59
27:BH:20:ILE:HD12	27:BH:25:VAL:HA	1.82	0.59
27:BH:64:HIS:CG	32:BM:127:ARG:CB	2.85	0.59
27:BH:125:ASN:ND2	27:BH:164:ILE:HG12	2.16	0.59
28:BI:10:ARG:HD2	28:BI:160:PRO:CG	2.17	0.59
28:BI:10:ARG:HH11	28:BI:10:ARG:CB	2.12	0.59
31:BL:122:GLN:HG3	31:BL:128:TYR:HD1	1.66	0.59
32:BM:11:LYS:HB2	32:BM:36:ARG:CD	2.33	0.59
35:BP:31:ILE:HD12	35:BP:31:ILE:O	2.02	0.59
40:BU:97:ILE:O	40:BU:97:ILE:HG13	2.01	0.59
42:B0:19:ARG:HH11	42:B0:19:ARG:CA	2.12	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:80:LYS:HD3	42:B0:80:LYS:O	2.01	0.59
46:BZ:72:GLU:HA	46:BZ:79:ARG:CG	2.31	0.59
1:AA:457:C:H2'	1:AA:458:C:C6	2.38	0.59
1:AA:1223:C:H5'	17:AS:100:LYS:CD	2.29	0.59
1:AA:1307:U:O3'	13:AM:145:ARG:HD2	2.02	0.59
2:AT:464:LEU:HD12	2:AT:509:LYS:HB3	1.85	0.59
4:AC:107:LYS:HB3	4:AC:112:LEU:CD1	2.24	0.59
6:AE:204:ARG:CG	6:AE:207:GLU:HB2	2.32	0.59
9:AI:72:GLY:O	9:AI:76:GLN:HG3	2.03	0.59
10:AJ:69:LYS:CD	14:AN:39:ARG:HH22	2.10	0.59
12:AL:63:GLN:HB3	12:AL:64:PRO:CD	2.32	0.59
15:AO:93:LYS:O	15:AO:97:VAL:HG23	2.02	0.59
18:B3:48:A:H8	18:B3:49:A:O5'	1.84	0.59
18:B3:81:G:C2'	40:BU:75:ARG:HD2	2.33	0.59
18:B3:215:A:P	41:BV:58:ARG:HD2	2.42	0.59
18:B3:693:A:O2'	41:BV:59:TYR:OH	2.18	0.59
18:B3:803:C:O2'	18:B3:804:C:H5'	2.03	0.59
18:B3:894:A:N3	23:BD:98:MET:SD	2.75	0.59
18:B3:953:G:C2'	36:BQ:13:TYR:CZ	2.86	0.59
18:B3:1805:G:H2'	18:B3:2883:A:N1	2.17	0.59
18:B3:2502:C:H1'	28:BI:157:TYR:CD1	2.38	0.59
18:B3:2653:A:H4'	22:BC:256:PRO:CA	2.33	0.59
18:B3:2679:G:H2'	18:B3:2681:A:OP2	2.03	0.59
19:B4:5:G:O2'	24:BE:50:ARG:NH1	2.35	0.59
22:BC:162:HIS:NE2	22:BC:164:GLN:HG3	2.17	0.59
23:BD:181:LEU:HD13	23:BD:183:SER:O	2.02	0.59
23:BD:227:ALA:CB	23:BD:232:LEU:HD13	2.29	0.59
24:BE:68:THR:HG22	24:BE:69:ILE:H	1.65	0.59
24:BE:115:LEU:HD22	24:BE:116:ASP:N	2.17	0.59
25:BF:100:LYS:HD2	25:BF:100:LYS:C	2.22	0.59
25:BF:168:ILE:CD1	25:BF:179:SER:HA	2.32	0.59
25:BF:184:ILE:O	25:BF:184:ILE:HG12	2.02	0.59
25:BF:185:HIS:O	25:BF:188:ILE:HG22	2.02	0.59
26:BG:119:LYS:HG3	26:BG:188:LEU:HG	1.84	0.59
28:BI:49:CYS:HA	28:BI:139:ARG:NE	2.17	0.59
32:BM:8:ILE:HD12	32:BM:18:LEU:CD2	2.31	0.59
32:BM:15:VAL:HG12	32:BM:40:LEU:CG	2.32	0.59
33:BN:46:TYR:HD1	33:BN:47:LEU:N	2.00	0.59
34:BO:32:LEU:HD12	34:BO:128:ALA:HB1	1.84	0.59
34:BO:114:ILE:HG21	34:BO:121:CYS:SG	2.42	0.59
36:BQ:36:VAL:HG22	36:BQ:37:GLY:N	2.14	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BQ:76:ILE:HG23	36:BQ:76:ILE:O	2.03	0.59
40:BU:70:ILE:HG12	40:BU:80:VAL:HG22	1.85	0.59
43:BW:71:ARG:NH1	43:BW:72:LEU:HA	2.17	0.59
45:BY:31:LYS:HD3	45:BY:31:LYS:N	2.18	0.59
46:BZ:67:VAL:O	46:BZ:84:LEU:HD13	2.02	0.59
1:AA:109:A:H2'	1:AA:326:G:N2	2.18	0.59
1:AA:402:G:C4'	5:AD:144:PRO:HB2	2.31	0.59
1:AA:553:A:O3'	12:AL:43:PHE:N	2.35	0.59
1:AA:597:G:H5"	16:AQ:99:TYR:CG	2.38	0.59
1:AA:1316:G:C2	17:AS:49:MET:SD	2.93	0.59
1:AA:1316:G:O6	17:AS:49:MET:CB	2.50	0.59
2:AT:413:ILE:HB	2:AT:427:PHE:HB2	1.84	0.59
4:AC:133:CYS:O	4:AC:156:LEU:HD11	2.02	0.59
5:AD:99:LEU:HD13	5:AD:101:VAL:HA	1.85	0.59
7:AG:83:LYS:HE2	7:AG:94:ASN:OD1	2.03	0.59
8:AH:26:ILE:CG2	8:AH:60:ILE:HB	2.33	0.59
13:AM:15:LEU:HB3	13:AM:66:LEU:HD11	1.84	0.59
18:B3:247:A:P	26:BG:133:TYR:OH	2.60	0.59
18:B3:449:A:P	23:BD:45:LYS:HG3	2.42	0.59
18:B3:676:C:O2	23:BD:231:SER:O	2.20	0.59
18:B3:1243:C:C5'	32:BM:17:ARG:NH1	2.66	0.59
18:B3:1438:G:N2	18:B3:1684:A:HO2'	2.01	0.59
18:B3:1445:G:OP1	39:BT:69:GLU:CA	2.51	0.59
18:B3:1862:C:H5'	21:BB:7:GLN:OE1	1.98	0.59
18:B3:2337:G:OP1	29:BJ:102:GLY:C	2.37	0.59
18:B3:2346:C:C2	29:BJ:19:ASN:OD1	2.56	0.59
18:B3:2560:C:O2'	18:B3:2777:G:C1'	2.50	0.59
18:B3:2736:U:H2'	35:BP:61:ARG:HB2	1.82	0.59
18:B3:2846:C:H5"	22:BC:174:LYS:HE2	1.84	0.59
20:BA:16:LEU:HD11	20:BA:208:SER:N	2.17	0.59
21:BB:56:PRO:CG	47:B9:51:ALA:CB	2.79	0.59
23:BD:169:LYS:HG3	23:BD:170:ALA:N	2.17	0.59
24:BE:56:THR:HG22	24:BE:57:ASN:N	2.18	0.59
24:BE:65:ILE:HG22	24:BE:73:VAL:O	2.03	0.59
25:BF:87:ARG:HG2	25:BF:89:LYS:O	2.02	0.59
25:BF:119:THR:O	25:BF:122:THR:HB	2.02	0.59
26:BG:119:LYS:CE	26:BG:184:ARG:HD3	2.33	0.59
27:BH:24:ILE:HD13	27:BH:25:VAL:N	2.16	0.59
27:BH:28:VAL:HG12	27:BH:29:GLY:N	2.15	0.59
27:BH:55:VAL:HG12	27:BH:56:ALA:N	2.17	0.59
27:BH:62:ARG:O	27:BH:63:LYS:HE2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:51:HIS:HA	28:BI:166:ILE:CD1	2.31	0.59
29:BJ:82:GLY:O	29:BJ:85:VAL:HG22	2.02	0.59
33:BN:16:ALA:O	33:BN:17:ARG:HG2	2.03	0.59
33:BN:57:ILE:HG13	33:BN:81:ARG:HH12	1.67	0.59
34:BO:107:THR:HG22	34:BO:108:ALA:N	2.18	0.59
34:BO:130:ARG:HE	34:BO:130:ARG:C	2.06	0.59
35:BP:41:ARG:CD	35:BP:44:VAL:HG11	2.33	0.59
35:BP:92:VAL:HA	35:BP:95:ILE:CD1	2.33	0.59
36:BQ:27:LEU:HD12	36:BQ:27:LEU:H	1.67	0.59
37:BR:60:ALA:H	37:BR:74:MET:HE2	1.66	0.59
40:BU:60:ARG:HA	40:BU:60:ARG:CZ	2.33	0.59
43:BW:71:ARG:HD2	43:BW:72:LEU:N	2.17	0.59
46:BZ:79:ARG:HH22	46:BZ:80:ALA:HB3	1.68	0.59
47:B9:54:TRP:CZ2	47:B9:70:VAL:HA	2.37	0.59
1:AA:346:G:C2'	1:AA:347:G:H5'	2.33	0.59
1:AA:401:C:C2	1:AA:622:A:N3	2.70	0.59
1:AA:518:C:H5"	1:AA:519:C:C6	2.37	0.59
1:AA:825:G:N2	8:AH:11:ASN:OD1	2.36	0.59
1:AA:860:A:H2'	1:AA:861:G:O4'	2.03	0.59
1:AA:956:U:O2'	17:AS:126:VAL:HG21	2.03	0.59
1:AA:988:G:O4'	1:AA:1014:A:C4'	2.51	0.59
1:AA:1151:A:C6	10:AJ:57:ARG:NE	2.71	0.59
1:AA:1177:G:C5'	9:AI:106:LYS:N	2.66	0.59
1:AA:1298:C:C5'	13:AM:55:HIS:O	2.51	0.59
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.17	0.59
2:AT:353:ALA:CB	2:AT:370:LYS:HG2	2.32	0.59
3:AB:121:ILE:HG23	3:AB:121:ILE:O	2.03	0.59
4:AC:54:THR:HG21	4:AC:89:ARG:CG	2.33	0.59
5:AD:97:LEU:CD2	5:AD:105:LEU:HD11	2.32	0.59
8:AH:17:GLU:OE1	8:AH:74:ILE:HG23	2.03	0.59
8:AH:52:ILE:HG21	8:AH:61:VAL:HG21	1.83	0.59
9:AI:88:LEU:HD23	9:AI:104:LEU:CD2	2.32	0.59
11:AK:40:ARG:HG2	11:AK:65:ASP:HB3	1.85	0.59
11:AK:55:SER:OG	11:AK:56:PRO:HD2	2.02	0.59
13:AM:26:ILE:HD13	13:AM:30:TYR:CD2	2.37	0.59
18:B3:165:A:P	41:BV:31:ARG:HG2	2.42	0.59
18:B3:402:U:OP1	31:BL:96:SER:HA	2.03	0.59
18:B3:693:A:H5"	41:BV:59:TYR:CE1	1.97	0.59
18:B3:807:A:H2'	18:B3:808:A:O4'	2.03	0.59
18:B3:1206:C:O2	18:B3:1207:A:H1'	2.01	0.59
18:B3:1310:U:H5	23:BD:203:GLY:N	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1397:C:O2'	35:BP:23:LEU:HB3	2.02	0.59
18:B3:2460:A:HO2'	46:BZ:60:LYS:CG	2.03	0.59
18:B3:2506:A:O2'	18:B3:2507:G:C8	2.40	0.59
18:B3:2847:G:P	22:BC:174:LYS:CE	2.89	0.59
18:B3:2900:G:H2'	18:B3:2901:C:O4'	2.02	0.59
19:B4:91:C:H2'	19:B4:92:G:O4'	2.03	0.59
19:B4:117:G:O2'	24:BE:69:ILE:HG21	2.00	0.59
21:BB:47:ILE:HG22	21:BB:58:ALA:HA	1.85	0.59
22:BC:301:LYS:HD3	22:BC:302:LYS:HZ3	1.67	0.59
24:BE:49:TYR:CE1	24:BE:65:ILE:HA	2.34	0.59
25:BF:180:ILE:H	25:BF:183:LEU:HG	1.68	0.59
28:BI:121:LYS:HZ3	28:BI:121:LYS:HB2	1.67	0.59
28:BI:135:ILE:HD13	28:BI:163:GLN:HE21	1.68	0.59
33:BN:46:TYR:C	33:BN:47:LEU:HD22	2.22	0.59
34:BO:27:LYS:O	34:BO:30:VAL:HG22	2.02	0.59
35:BP:22:TRP:N	35:BP:51:LYS:HB2	2.18	0.59
35:BP:94:TRP:CD2	35:BP:95:ILE:HG23	2.38	0.59
38:BS:45:ASN:H	38:BS:48:ARG:HH21	1.49	0.59
41:BV:69:LYS:CD	41:BV:69:LYS:H	2.15	0.59
42:B0:83:GLU:HG2	42:B0:84:THR:N	2.18	0.59
42:B0:85:LEU:CG	42:B0:117:ILE:HG21	2.32	0.59
45:BY:28:VAL:CA	45:BY:30:LYS:HE2	2.32	0.59
1:AA:39:G:O2'	1:AA:40:C:H5'	2.02	0.59
1:AA:124:G:OP1	1:AA:312:C:C1'	2.51	0.59
1:AA:1126:U:C1'	1:AA:1280:A:N6	1.83	0.59
1:AA:1247:U:O2'	1:AA:1248:A:H5'	2.03	0.59
1:AA:1309:G:C8	13:AM:92:ILE:HA	2.27	0.59
1:AA:1309:G:H1	13:AM:95:GLY:HA3	1.67	0.59
1:AA:1322:C:OP2	13:AM:138:THR:HG23	2.03	0.59
2:AT:465:LYS:HZ1	2:AT:511:LEU:HB3	1.62	0.59
3:AB:45:HIS:HB2	3:AB:148:LEU:HD22	1.84	0.59
7:AG:113:ILE:O	7:AG:117:LEU:HD13	2.02	0.59
7:AG:210:ILE:HD12	7:AG:210:ILE:N	2.18	0.59
8:AH:103:LEU:CD2	8:AH:124:ILE:HA	2.28	0.59
10:AJ:71:PRO:N	14:AN:42:PHE:HB2	2.17	0.59
10:AJ:72:ASN:CG	14:AN:28:GLY:N	2.54	0.59
12:AL:142:LYS:HG3	12:AL:143:PRO:HD3	1.83	0.59
13:AM:78:HIS:HB3	13:AM:85:PHE:CZ	2.37	0.59
13:AM:132:ARG:HD3	13:AM:145:ARG:CB	2.33	0.59
15:AO:94:ALA:HB2	15:AO:117:ILE:HD12	1.84	0.59
18:B3:195:C:H2'	18:B3:196:G:H5'	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:372:A:H2'	18:B3:373:G:C8	2.38	0.59
18:B3:618:G:C5	42:B0:48:GLY:HA3	2.38	0.59
18:B3:660:A:OP1	34:BO:89:ASP:OD1	2.20	0.59
18:B3:719:C:H1'	34:BO:73:GLN:CD	2.22	0.59
18:B3:960:G:N2	19:B4:68:G:OP1	2.36	0.59
18:B3:1018:A:HO2'	36:BQ:60:LYS:CE	1.90	0.59
18:B3:1066:U:O3'	25:BF:96:PRO:HG2	2.02	0.59
18:B3:1127:C:HO2'	18:B3:2492:U:C5'	2.05	0.59
18:B3:1182:U:H5"	30:BK:104:ILE:N	2.16	0.59
18:B3:1189:A:O2'	18:B3:1209:C:C5'	2.50	0.59
18:B3:1243:C:C4'	32:BM:17:ARG:NH1	2.62	0.59
18:B3:1310:U:P	23:BD:203:GLY:CA	2.65	0.59
18:B3:1350:U:O3'	23:BD:46:ARG:HB2	2.02	0.59
18:B3:2166:G:O6	20:BA:61:PRO:N	2.36	0.59
18:B3:2578:G:N3	18:B3:2800:A:H2'	2.15	0.59
19:B4:36:C:C6	24:BE:181:PRO:CA	2.76	0.59
22:BC:48:TYR:CA	22:BC:78:VAL:HG13	2.31	0.59
22:BC:75:VAL:HG13	22:BC:326:CYS:HB3	1.85	0.59
22:BC:86:VAL:HG23	22:BC:86:VAL:O	2.03	0.59
22:BC:95:PRO:O	22:BC:96:ARG:HB2	2.03	0.59
22:BC:114:LYS:HB3	22:BC:115:ARG:NH2	2.16	0.59
22:BC:231:ARG:HG2	22:BC:269:ARG:HH22	1.68	0.59
22:BC:236:LYS:HB2	22:BC:237:LEU:CD2	2.33	0.59
22:BC:302:LYS:HE3	22:BC:305:THR:CB	2.32	0.59
22:BC:303:THR:HG23	22:BC:304:ILE:N	2.18	0.59
23:BD:181:LEU:HD22	23:BD:183:SER:O	2.02	0.59
27:BH:124:ARG:HD3	27:BH:124:ARG:C	2.23	0.59
29:BJ:140:ARG:O	29:BJ:144:LYS:HD3	2.03	0.59
31:BL:168:LYS:HD2	31:BL:169:LYS:NZ	2.17	0.59
32:BM:63:PHE:CE2	32:BM:64:ASN:HB2	2.38	0.59
33:BN:25:PHE:CZ	33:BN:118:VAL:HG23	2.38	0.59
33:BN:68:ARG:H	33:BN:79:LYS:HB2	1.68	0.59
33:BN:109:THR:C	33:BN:110:LYS:HD2	2.23	0.59
34:BO:40:THR:HG22	34:BO:41:ASP:N	2.18	0.59
39:BT:80:ILE:CG2	39:BT:124:ARG:HA	2.30	0.59
1:AA:190(E):U:C4'	16:AQ:109:HIS:NE2	2.26	0.58
1:AA:538:G:H5"	12:AL:142:LYS:N	2.18	0.58
1:AA:618:C:OP2	5:AD:140:ILE:O	2.21	0.58
1:AA:1021:G:C2	1:AA:1022:G:H1'	2.38	0.58
1:AA:1503:A:H2'	1:AA:1507:A:O5'	2.03	0.58
3:AB:17:LEU:H	3:AB:17:LEU:CD2	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:153:LEU:CD2	8:AH:98:PHE:N	2.48	0.58
7:AG:91:ARG:HG3	7:AG:92:LEU:HD12	1.84	0.58
7:AG:170:ALA:O	7:AG:174:LEU:HD23	2.03	0.58
9:AI:97:ASP:HA	9:AI:102:ASN:H	1.68	0.58
10:AJ:50:LEU:CD2	10:AJ:93:LEU:HD12	2.33	0.58
16:AQ:81:ARG:HG2	16:AQ:109:HIS:CE1	2.38	0.58
18:B3:219:G:OP2	18:B3:220:C:H5"	2.03	0.58
18:B3:677:C:H5'	23:BD:232:LEU:CB	2.33	0.58
18:B3:905:C:C6	41:BV:11:ARG:NH2	2.71	0.58
18:B3:1118:A:C5'	18:B3:1227:C:C4	2.71	0.58
18:B3:1677:U:OP2	39:BT:115:PRO:CD	2.43	0.58
18:B3:1708:C:P	35:BP:81:LYS:H	2.26	0.58
18:B3:1805:G:O5'	18:B3:2875:A:O2'	2.20	0.58
18:B3:1899:C:H4'	21:BB:224:ILE:O	2.02	0.58
18:B3:2093:G:C2	22:BC:257:ALA:C	2.72	0.58
18:B3:2310:G:O2'	28:BI:119:TRP:CE2	2.49	0.58
18:B3:2337:G:C2	29:BJ:127:TYR:CG	2.68	0.58
18:B3:2505:G:OP1	28:BI:75:TYR:CE2	2.56	0.58
18:B3:2546:U:C2'	22:BC:235:LYS:CE	2.80	0.58
18:B3:2722:G:C5'	37:BR:94:TYR:HE2	2.16	0.58
18:B3:2819:C:H2'	18:B3:2820:A:C8	2.38	0.58
18:B3:2837:U:O4'	22:BC:332:LYS:HE3	2.03	0.58
18:B3:2853:U:OP2	22:BC:170:LEU:CG	2.49	0.58
18:B3:2866:U:H4'	18:B3:2867:G:C5'	2.32	0.58
20:BA:24:LYS:HD2	20:BA:25:LYS:CB	2.33	0.58
20:BA:29:LEU:HB3	20:BA:172:VAL:HG12	1.85	0.58
20:BA:67:ILE:HG21	20:BA:77:ALA:HB1	1.83	0.58
22:BC:143:ILE:HA	22:BC:146:GLU:HG2	1.84	0.58
23:BD:151:VAL:HG12	23:BD:152:SER:N	2.13	0.58
23:BD:207:VAL:HG21	23:BD:236:GLN:HG2	1.84	0.58
25:BF:146:LEU:O	25:BF:147:VAL:HG13	2.02	0.58
25:BF:177:ILE:HD12	25:BF:178:LEU:H	1.68	0.58
27:BH:47:LYS:HA	27:BH:47:LYS:HZ1	1.68	0.58
27:BH:104:VAL:CG1	27:BH:111:PHE:HD1	2.16	0.58
28:BI:49:CYS:HB2	28:BI:168:SER:HB3	1.85	0.58
28:BI:141:LYS:H	28:BI:141:LYS:HD2	1.67	0.58
29:BJ:109:ILE:HG22	29:BJ:110:ASP:N	2.18	0.58
31:BL:82:LYS:HE2	46:BZ:49:PHE:CG	2.30	0.58
31:BL:158:ARG:CZ	31:BL:159:GLU:H	2.16	0.58
31:BL:161:ARG:HD2	31:BL:164:THR:CA	2.33	0.58
33:BN:12:LYS:HA	33:BN:12:LYS:HE3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:111:LEU:HG	33:BN:151:GLU:OE1	2.03	0.58
34:BO:116:LYS:CG	34:BO:117:ALA:H	2.14	0.58
35:BP:84:ARG:HA	35:BP:87:ARG:NH2	2.18	0.58
41:BV:13:HIS:HD2	41:BV:15:SER:O	1.86	0.58
43:BW:77:LYS:HG3	43:BW:82:GLU:OE2	2.02	0.58
1:AA:59:A:H5'	1:AA:388:G:C4	2.34	0.58
1:AA:401:C:O5'	5:AD:78:ARG:HG3	2.02	0.58
1:AA:1340:A:C2'	9:AI:141:TYR:OH	2.49	0.58
3:AB:31:HIS:CD2	8:AH:21:LYS:CE	2.79	0.58
9:AI:30:VAL:HA	9:AI:66:VAL:HG13	1.85	0.58
9:AI:100:SER:C	9:AI:105:LYS:CA	2.70	0.58
10:AJ:70:THR:HB	14:AN:40:GLN:N	2.10	0.58
12:AL:87:VAL:HG23	12:AL:87:VAL:O	2.03	0.58
13:AM:91:ASP:O	13:AM:113:LEU:HD11	2.02	0.58
17:AS:66:ALA:O	17:AS:69:GLU:HG2	2.03	0.58
18:B3:28:G:OP2	18:B3:1319:G:H5'	2.02	0.58
18:B3:170:U:H4'	31:BL:82:LYS:HD2	1.85	0.58
18:B3:279:C:O2'	18:B3:280:C:H5'	2.03	0.58
18:B3:500:G:C1'	33:BN:16:ALA:HB1	2.34	0.58
18:B3:599:G:O2'	18:B3:600:G:H5'	2.03	0.58
18:B3:1153:C:C5	18:B3:1155:G:N3	2.25	0.58
18:B3:1164:U:H6	30:BK:51:LYS:HB3	1.52	0.58
18:B3:1352:A:N9	23:BD:50:ALA:N	2.48	0.58
18:B3:1397:C:O2'	35:BP:23:LEU:HD22	2.03	0.58
18:B3:1566:C:H5"	35:BP:57:HIS:ND1	2.17	0.58
18:B3:2081:A:C4'	32:BM:69:PRO:CB	2.81	0.58
18:B3:2165:G:H1'	20:BA:207:LYS:HE2	1.84	0.58
18:B3:2296:C:P	36:BQ:5:HIS:C	2.81	0.58
18:B3:2333:G:HO2'	29:BJ:113:ILE:CG1	2.04	0.58
18:B3:2559:C:O4'	18:B3:2799:A:O4'	2.21	0.58
18:B3:2653:A:H5"	22:BC:256:PRO:HB3	1.84	0.58
18:B3:2662:G:C1'	18:B3:2814:A:N1	2.62	0.58
18:B3:2736:U:H2'	35:BP:61:ARG:CB	2.25	0.58
18:B3:2812:A:C2	18:B3:2814:A:N6	2.69	0.58
18:B3:2853:U:H4'	22:BC:170:LEU:HD21	1.84	0.58
19:B4:36:C:C6	24:BE:181:PRO:HB3	2.38	0.58
21:BB:57:LEU:HB3	21:BB:75:PHE:O	2.03	0.58
21:BB:134:ILE:HG13	21:BB:148:ARG:HB2	1.86	0.58
21:BB:183:ARG:HA	21:BB:186:HIS:CE1	2.38	0.58
21:BB:183:ARG:HA	21:BB:186:HIS:ND1	2.17	0.58
22:BC:101:LEU:HD13	22:BC:145:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:229:VAL:HG13	23:BD:230:ALA:N	2.18	0.58
24:BE:51:LEU:HD12	24:BE:64:ILE:HD13	1.82	0.58
24:BE:204:VAL:HG13	24:BE:205:SER:N	2.18	0.58
25:BF:126:LEU:N	25:BF:126:LEU:HD22	2.18	0.58
29:BJ:51:TYR:CE1	29:BJ:58:ILE:HB	2.38	0.58
30:BK:51:LYS:HG3	30:BK:52:GLU:N	2.11	0.58
30:BK:116:MET:CE	30:BK:119:LYS:HE2	2.33	0.58
32:BM:41:ASN:HD21	32:BM:134:TYR:CB	2.16	0.58
33:BN:118:VAL:HG22	33:BN:119:ASN:N	2.17	0.58
35:BP:7:LYS:NZ	35:BP:8:ARG:HH11	2.01	0.58
35:BP:9:LEU:HD23	35:BP:9:LEU:N	2.18	0.58
36:BQ:45:ASN:ND2	36:BQ:94:GLU:HG2	2.07	0.58
37:BR:35:TYR:CE2	37:BR:61:THR:HB	2.38	0.58
37:BR:45:ARG:HG2	37:BR:46:LEU:CD1	2.28	0.58
37:BR:48:ARG:HD3	37:BR:48:ARG:H	1.68	0.58
37:BR:54:LEU:HD22	37:BR:54:LEU:N	2.10	0.58
42:B0:27:ARG:NH1	42:B0:28:VAL:HG12	2.16	0.58
46:BZ:28:LYS:HE3	46:BZ:28:LYS:CA	2.25	0.58
1:AA:46:G:O3'	1:AA:47:C:P	2.61	0.58
1:AA:335:C:O2'	1:AA:1433:A:H2'	2.03	0.58
1:AA:675:A:H3'	11:AK:120:VAL:N	2.18	0.58
1:AA:677:U:C4	11:AK:121:PRO:CB	2.69	0.58
1:AA:949:A:P	13:AM:141:THR:O	2.57	0.58
1:AA:1044:A:C2'	1:AA:1045:C:H5'	2.32	0.58
1:AA:1221:G:H1'	17:AS:102:PHE:CB	2.32	0.58
1:AA:1224:G:H4'	17:AS:123:TYR:CZ	2.38	0.58
2:AT:141:THR:O	2:AT:483:PHE:HE2	1.84	0.58
4:AC:58:LEU:HG	4:AC:62:GLY:HA2	1.86	0.58
4:AC:159:SER:HA	4:AC:165:ASP:CG	2.24	0.58
6:AE:98:LYS:HZ1	6:AE:114:ILE:HD12	1.67	0.58
6:AE:113:GLY:HA3	6:AE:130:ILE:CG2	2.30	0.58
9:AI:48:TYR:CD1	9:AI:84:ILE:HD13	2.38	0.58
9:AI:99:GLN:OE1	9:AI:113:ARG:HB2	2.03	0.58
11:AK:16:ALA:HB2	11:AK:78:VAL:HG11	1.84	0.58
13:AM:90:ASN:OD1	13:AM:109:LEU:HD22	2.04	0.58
16:AQ:110:VAL:O	16:AQ:110:VAL:HG13	2.03	0.58
18:B3:63:U:O2'	18:B3:64:G:H5'	2.02	0.58
18:B3:574:C:O2'	18:B3:575:G:H5'	2.03	0.58
18:B3:967:U:O2'	28:BI:35:ASP:OD2	2.21	0.58
18:B3:1165:U:C5	30:BK:44:GLU:OE1	2.55	0.58
18:B3:1180:C:O2	30:BK:110:ILE:HD12	1.99	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1277:C:C5'	34:BO:35:PHE:CE2	2.84	0.58
18:B3:1308:A:C8	23:BD:202:ARG:NH2	2.70	0.58
18:B3:1473:U:C2	45:BY:40:ALA:HB2	2.39	0.58
18:B3:1515:A:H2'	18:B3:1516:C:H6	1.69	0.58
18:B3:2251:G:H2'	21:BB:33:TYR:OH	2.02	0.58
18:B3:2350:G:N2	29:BJ:116:ASP:OD1	2.36	0.58
18:B3:2361:A:H2'	18:B3:2362:A:C8	2.37	0.58
18:B3:2574:G:O2'	18:B3:2776:A:H4'	2.02	0.58
18:B3:2654:C:H4'	22:BC:259:VAL:CG2	2.33	0.58
18:B3:2780:C:H2'	18:B3:2781:U:C6	2.38	0.58
18:B3:2806:C:C3'	22:BC:343:THR:HG1	2.13	0.58
19:B4:36:C:C5'	24:BE:182:GLY:CA	2.82	0.58
19:B4:51:A:C4	24:BE:58:LYS:CD	2.84	0.58
21:BB:114:ASN:HA	21:BB:125:LEU:O	2.03	0.58
21:BB:117:GLU:O	21:BB:118:LYS:HG2	2.03	0.58
22:BC:112:GLU:CA	22:BC:173:LYS:HB2	2.34	0.58
22:BC:213:MET:O	22:BC:341:LEU:HD22	2.03	0.58
22:BC:279:HIS:CE1	22:BC:327:ILE:HG12	2.38	0.58
23:BD:221:VAL:CG1	23:BD:224:VAL:HG12	2.34	0.58
27:BH:61:GLY:H	27:BH:63:LYS:HE3	1.68	0.58
27:BH:62:ARG:HA	27:BH:65:VAL:HB	1.84	0.58
28:BI:59:GLN:H	28:BI:128:ARG:HA	1.68	0.58
29:BJ:44:PRO:HB2	29:BJ:67:HIS:HB2	1.86	0.58
30:BK:125:LEU:O	30:BK:129:THR:HG23	2.02	0.58
32:BM:13:HIS:NE2	32:BM:121:GLN:HB3	2.17	0.58
40:BU:89:LYS:HD3	40:BU:93:ALA:H	1.65	0.58
40:BU:113:LYS:HD2	40:BU:116:LYS:HZ3	1.65	0.58
43:BW:35:ILE:HD13	43:BW:50:LEU:HD22	1.84	0.58
43:BW:72:LEU:HG	43:BW:73:ARG:O	2.03	0.58
1:AA:1075:C:OP1	3:AB:102:THR:CB	2.50	0.58
1:AA:1176:A:H2'	9:AI:107:ALA:HA	1.81	0.58
1:AA:1483:A:H5'	18:B3:1988:C:O2'	2.03	0.58
4:AC:118:ALA:O	4:AC:121:VAL:HG22	2.03	0.58
6:AE:83:LYS:HG3	6:AE:84:PRO:HD2	1.84	0.58
6:AE:90:ARG:NE	6:AE:90:ARG:H	2.02	0.58
6:AE:90:ARG:HE	6:AE:90:ARG:H	1.51	0.58
6:AE:153:LEU:HD21	8:AH:97:GLN:CA	2.32	0.58
6:AE:163:SER:CB	6:AE:202:LYS:HB2	2.33	0.58
9:AI:126:LYS:HB3	9:AI:126:LYS:HZ2	1.68	0.58
12:AL:79:ASN:HB3	12:AL:81:LYS:H	1.67	0.58
13:AM:22:VAL:HG13	13:AM:22:VAL:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:85:ILE:HG23	17:AS:116:LEU:CG	2.33	0.58
18:B3:263:U:N3	26:BG:157:ASP:OD2	2.35	0.58
18:B3:282:C:H1'	18:B3:368:C:H42	1.68	0.58
18:B3:500:G:C4	33:BN:16:ALA:HB1	2.36	0.58
18:B3:537:G:H4'	42:B0:21:HIS:CE1	2.38	0.58
18:B3:539:G:P	42:B0:23:ASP:HB2	2.42	0.58
18:B3:660:A:P	34:BO:89:ASP:OD1	2.61	0.58
18:B3:676:C:H6	23:BD:233:ASN:OD1	1.86	0.58
18:B3:906:C:C5	18:B3:1329:A:N3	2.69	0.58
18:B3:1067:A:C4'	25:BF:93:LYS:O	2.51	0.58
18:B3:1285:U:H5"	25:BF:155:ILE:CD1	2.27	0.58
18:B3:1414:A:O2'	45:BY:11:HIS:O	2.22	0.58
18:B3:1808:C:OP1	18:B3:2886:C:P	2.61	0.58
18:B3:1900:A:OP1	21:BB:225:SER:CA	2.51	0.58
18:B3:2438:G:C8	46:BZ:14:LYS:NZ	2.71	0.58
18:B3:2579:G:C4'	18:B3:2680:A:N9	2.62	0.58
18:B3:2635:A:O2'	18:B3:2636:C:H5'	2.03	0.58
18:B3:2806:C:H5"	22:BC:343:THR:CB	2.33	0.58
18:B3:2828:G:O5'	22:BC:129:PHE:CG	2.54	0.58
21:BB:48:VAL:O	21:BB:56:PRO:HB3	2.03	0.58
21:BB:83:THR:HG1	47:B9:62:THR:CB	2.15	0.58
21:BB:137:GLY:HA2	21:BB:146:ARG:HG2	1.84	0.58
22:BC:27:ARG:HD2	22:BC:27:ARG:O	2.03	0.58
22:BC:120:ASN:HB3	22:BC:129:PHE:HD1	1.62	0.58
22:BC:205:ASP:HA	22:BC:208:PHE:CZ	2.38	0.58
22:BC:335:VAL:HG23	22:BC:335:VAL:O	2.03	0.58
23:BD:21:LEU:HG	23:BD:22:PRO:HD2	1.83	0.58
23:BD:73:ILE:HG13	23:BD:75:ARG:HB3	1.84	0.58
25:BF:91:ILE:O	25:BF:91:ILE:HG23	2.03	0.58
25:BF:179:SER:CA	25:BF:183:LEU:HD11	2.33	0.58
28:BI:44:ASP:HA	28:BI:46:PHE:HE2	1.67	0.58
28:BI:51:HIS:HB2	28:BI:152:LEU:CD2	2.34	0.58
29:BJ:84:LYS:HG3	29:BJ:84:LYS:O	2.01	0.58
29:BJ:163:LYS:HD2	29:BJ:169:ASP:N	2.18	0.58
31:BL:25:ARG:HD2	31:BL:26:VAL:HG23	1.86	0.58
34:BO:111:ARG:HD2	34:BO:111:ARG:O	2.03	0.58
35:BP:81:LYS:CD	35:BP:81:LYS:H	2.16	0.58
40:BU:31:LEU:CD2	40:BU:101:PRO:HD2	2.28	0.58
41:BV:70:PRO:HD2	41:BV:108:TYR:CG	2.39	0.58
43:BW:17:LYS:O	43:BW:18:ARG:HG2	2.02	0.58
47:B9:29:GLU:HB3	47:B9:31:GLN:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:400:C:C2	1:AA:622:A:C2'	2.87	0.58
1:AA:404:U:C6	5:AD:19:TYR:CD2	2.91	0.58
1:AA:554:C:C5'	12:AL:45:GLY:H	2.15	0.58
1:AA:1250:A:H5"	9:AI:70:GLY:C	2.23	0.58
2:AT:757:GLU:CG	18:B3:1171:A:O2'	2.50	0.58
4:AC:139:GLY:HA2	4:AC:147:LYS:O	2.03	0.58
6:AE:177:ILE:O	6:AE:177:ILE:HG23	2.03	0.58
12:AL:68:ILE:O	12:AL:68:ILE:HG23	2.04	0.58
18:B3:169:A:C3'	46:BZ:49:PHE:CZ	2.83	0.58
18:B3:449:A:N7	18:B3:1349:G:H2'	2.19	0.58
18:B3:541:C:O3'	42:B0:14:THR:OG1	2.21	0.58
18:B3:672:G:H8	23:BD:214:ILE:HG22	0.81	0.58
18:B3:677:C:H1'	23:BD:231:SER:N	2.16	0.58
18:B3:844:A:O4'	33:BN:133:GLY:CA	2.48	0.58
18:B3:905:C:N4	18:B3:1330:A:N3	2.52	0.58
18:B3:1119:G:H5'	32:BM:48:ARG:CD	2.32	0.58
18:B3:1515:A:H2'	18:B3:1516:C:C6	2.38	0.58
18:B3:1673:U:O2	39:BT:90:ASN:HA	2.04	0.58
18:B3:1787:C:O2'	18:B3:2882:G:H3'	2.01	0.58
18:B3:1815:A:C5	18:B3:2734:G:C6	2.78	0.58
18:B3:2050:G:N9	33:BN:82:TRP:CZ3	2.65	0.58
18:B3:2134:G:O6	18:B3:2258:A:H5"	2.03	0.58
18:B3:2363:G:H22	36:BQ:8:ARG:HD2	1.65	0.58
18:B3:2614:C:H4'	22:BC:240:LYS:C	2.23	0.58
18:B3:2847:G:C3'	22:BC:173:LYS:HE2	2.33	0.58
20:BA:32:VAL:CG1	20:BA:179:LEU:HD21	2.33	0.58
20:BA:57:ASN:CG	20:BA:155:ILE:CD1	2.71	0.58
20:BA:67:ILE:HG21	20:BA:77:ALA:HB2	1.84	0.58
20:BA:120:VAL:HG22	20:BA:121:PRO:CD	2.31	0.58
21:BB:201:VAL:HB	21:BB:216:GLN:NE2	2.19	0.58
22:BC:161:VAL:HG23	22:BC:177:LEU:HD12	1.85	0.58
22:BC:301:LYS:HE2	22:BC:302:LYS:HZ2	1.68	0.58
24:BE:75:LEU:HD12	24:BE:113:LEU:CG	2.33	0.58
24:BE:208:MET:HB3	24:BE:211:LEU:HD22	1.85	0.58
25:BF:142:THR:HG22	25:BF:239:VAL:HG11	1.84	0.58
25:BF:159:ARG:HD3	25:BF:166:ALA:HB1	1.85	0.58
25:BF:223:ILE:O	25:BF:223:ILE:HG23	2.04	0.58
28:BI:51:HIS:HA	28:BI:165:ILE:O	2.04	0.58
28:BI:165:ILE:HG23	28:BI:166:ILE:N	2.18	0.58
29:BJ:11:LEU:CD2	29:BJ:153:THR:HG23	2.33	0.58
29:BJ:59:ARG:HB3	29:BJ:59:ARG:CZ	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:22:GLN:HE21	31:BL:25:ARG:CG	2.15	0.58
32:BM:49:ASN:O	32:BM:53:TYR:HB2	2.03	0.58
32:BM:61:THR:HG22	32:BM:62:ALA:N	2.18	0.58
32:BM:72:PHE:CB	32:BM:78:ILE:HD12	2.31	0.58
33:BN:36:ASN:N	33:BN:38:TRP:HD1	2.01	0.58
33:BN:40:LEU:HD12	33:BN:40:LEU:C	2.24	0.58
34:BO:83:VAL:HG22	34:BO:103:ALA:HB2	1.83	0.58
35:BP:52:LYS:N	35:BP:52:LYS:HE3	2.18	0.58
35:BP:116:LYS:O	35:BP:119:TYR:HE1	1.87	0.58
37:BR:48:ARG:H	37:BR:48:ARG:CD	2.17	0.58
37:BR:62:VAL:HG23	37:BR:62:VAL:O	2.02	0.58
38:BS:51:TRP:HZ3	38:BS:56:ARG:NE	2.01	0.58
41:BV:5:THR:HG23	41:BV:6:LYS:N	2.17	0.58
44:BX:25:LYS:HA	44:BX:25:LYS:HZ3	1.66	0.58
46:BZ:66:LYS:HZ3	46:BZ:86:ARG:NE	2.01	0.58
47:B9:22:ARG:NH2	47:B9:22:ARG:H	2.01	0.58
47:B9:78:VAL:O	47:B9:78:VAL:HG23	2.04	0.58
1:AA:33:A:N1	12:AL:47:SER:OG	2.35	0.58
1:AA:320:C:O2	1:AA:1435:G:O3'	2.16	0.58
1:AA:390:C:H2'	1:AA:391:G:C8	2.38	0.58
1:AA:505:G:H2'	1:AA:506:G:C8	2.38	0.58
1:AA:559:A:C5	12:AL:36:THR:HG21	2.38	0.58
1:AA:713:G:C6	11:AK:124:SER:HA	2.37	0.58
1:AA:865:A:H4'	1:AA:1079:G:N3	2.18	0.58
1:AA:979:C:C2	17:AS:56:PHE:CZ	2.91	0.58
1:AA:1067:A:O3'	1:AA:1387:G:O2'	2.20	0.58
1:AA:1219:U:H4'	17:AS:59:LYS:CA	2.33	0.58
1:AA:1339:A:H2'	1:AA:1340:A:O4'	2.04	0.58
4:AC:48:ILE:HG23	4:AC:48:ILE:O	2.03	0.58
8:AH:97:GLN:HB2	8:AH:127:PHE:CZ	2.37	0.58
18:B3:71:G:O3'	44:BX:49:LYS:HB2	2.04	0.58
18:B3:112:G:HO2'	18:B3:114:A:H8	0.66	0.58
18:B3:622:G:OP2	42:B0:36:LYS:CA	2.43	0.58
18:B3:638:C:H5"	42:B0:27:ARG:HB3	1.74	0.58
18:B3:1003:U:P	28:BI:90:ARG:HD2	2.33	0.58
18:B3:1358:A:H2	23:BD:86:GLN:CB	2.16	0.58
18:B3:1401:G:P	43:BW:61:ARG:H	2.25	0.58
18:B3:1804:A:H2'	18:B3:1805:G:C8	2.39	0.58
18:B3:2264:A:C5'	31:BL:92:LYS:HZ1	2.08	0.58
18:B3:2413:A:O4'	24:BE:175:HIS:N	2.25	0.58
18:B3:2488:A:H61	18:B3:2534:C:H42	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2697:A:H2'	18:B3:2698:G:O4'	2.03	0.58
18:B3:2846:C:C5'	22:BC:174:LYS:CE	2.76	0.58
20:BA:68:PHE:CZ	20:BA:90:LEU:HD12	2.38	0.58
21:BB:138:HIS:HB2	21:BB:141:ASP:HB3	1.86	0.58
21:BB:167:VAL:CG2	47:B9:74:ALA:O	2.42	0.58
21:BB:237:ILE:HG22	21:BB:238:ALA:N	2.19	0.58
22:BC:92:VAL:HG23	22:BC:101:LEU:CD2	2.34	0.58
22:BC:220:THR:HG22	22:BC:271:TYR:O	2.03	0.58
22:BC:231:ARG:HG3	22:BC:232:TRP:CZ3	2.39	0.58
24:BE:142:PHE:O	24:BE:172:TYR:HB3	2.03	0.58
25:BF:111:ASN:CG	25:BF:208:ASN:HB2	2.24	0.58
26:BG:119:LYS:CB	26:BG:188:LEU:HD12	2.27	0.58
27:BH:179:ILE:O	27:BH:179:ILE:HG13	2.02	0.58
27:BH:181:VAL:O	27:BH:181:VAL:HG13	2.04	0.58
28:BI:59:GLN:HA	28:BI:127:ALA:O	2.03	0.58
28:BI:66:GLU:HA	28:BI:69:ARG:CZ	2.33	0.58
28:BI:86:HIS:O	28:BI:138:VAL:HB	2.04	0.58
29:BJ:16:LEU:CD2	29:BJ:75:ALA:HB1	2.33	0.58
29:BJ:113:ILE:HG13	29:BJ:113:ILE:O	2.02	0.58
29:BJ:136:ARG:CZ	29:BJ:137:VAL:HA	2.33	0.58
29:BJ:146:THR:HG22	29:BJ:147:VAL:N	2.18	0.58
33:BN:58:PRO:HG2	33:BN:75:PHE:CE1	2.38	0.58
34:BO:114:ILE:HG23	34:BO:114:ILE:O	2.04	0.58
35:BP:13:VAL:O	35:BP:13:VAL:HG13	2.04	0.58
35:BP:107:LYS:O	35:BP:111:ALA:HB2	2.03	0.58
43:BW:72:LEU:HG	43:BW:73:ARG:N	2.18	0.58
44:BX:25:LYS:HZ2	44:BX:51:ILE:HG13	1.67	0.58
46:BZ:67:VAL:O	46:BZ:84:LEU:HD22	2.02	0.58
47:B9:31:GLN:HG2	47:B9:32:GLN:H	1.67	0.58
1:AA:21:G:C5'	1:AA:884:U:H1'	2.14	0.58
1:AA:60:A:H4'	1:AA:61:G:O5'	2.04	0.58
1:AA:65:U:H1'	1:AA:382:A:C6	2.33	0.58
1:AA:66:G:N2	1:AA:69:G:N9	2.51	0.58
1:AA:130:A:C8	16:AQ:135:ARG:HB3	2.39	0.58
1:AA:190(D):U:H3	16:AQ:111:SER:CA	2.17	0.58
1:AA:560:U:H4'	1:AA:561:U:H5"	1.86	0.58
1:AA:560:U:C5'	1:AA:563:A:OP1	2.50	0.58
1:AA:676:A:N1	11:AK:123:ASP:CB	2.66	0.58
1:AA:1179:A:OP1	9:AI:116:LEU:CD2	2.51	0.58
1:AA:1305:G:H22	13:AM:40:ARG:NH1	2.01	0.58
1:AA:1318:A:N1	17:AS:82:ASN:CB	2.64	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1320:C:O2'	13:AM:122:HIS:ND1	2.35	0.58
2:AT:585:ARG:NH1	2:AT:842:LEU:HD23	2.19	0.58
3:AB:32:GLN:HG3	3:AB:35:TYR:HB2	1.85	0.58
4:AC:118:ALA:CB	4:AC:149:MET:HE1	2.33	0.58
9:AI:27:LEU:H	9:AI:27:LEU:CD2	2.17	0.58
9:AI:98:GLU:CB	9:AI:103:GLU:HA	2.33	0.58
10:AJ:70:THR:C	14:AN:42:PHE:HB2	2.24	0.58
10:AJ:71:PRO:O	14:AN:29:LEU:HD12	2.02	0.58
13:AM:131:LEU:HA	13:AM:132:ARG:NH1	2.18	0.58
15:AO:65:ILE:HG23	15:AO:69:LYS:HB3	1.84	0.58
15:AO:87:LEU:CD2	15:AO:121:ILE:HG23	2.32	0.58
16:AQ:77:THR:HG23	16:AQ:118:VAL:HB	1.86	0.58
18:B3:166:A:C4'	41:BV:30:GLY:HA2	2.33	0.58
18:B3:265:U:H4'	31:BL:55:LYS:CD	2.23	0.58
18:B3:537:G:C2'	42:B0:21:HIS:NE2	2.66	0.58
18:B3:539:G:C6	42:B0:50:ILE:HD12	2.38	0.58
18:B3:618:G:N3	42:B0:41:VAL:HG21	2.18	0.58
18:B3:621:C:H3'	42:B0:36:LYS:CG	2.33	0.58
18:B3:1056:U:O2	18:B3:2494:G:O4'	2.22	0.58
18:B3:1244:U:OP1	32:BM:14:LEU:HD12	2.00	0.58
18:B3:1672:G:C8	39:BT:108:LYS:NZ	2.67	0.58
18:B3:2121:G:O2'	31:BL:83:PRO:HD3	2.04	0.58
18:B3:2245:C:C2	18:B3:2246:U:C6	2.81	0.58
18:B3:2304:G:C4'	36:BQ:56:PHE:HD1	2.17	0.58
18:B3:2334:C:H5	29:BJ:114:LYS:NZ	2.02	0.58
18:B3:2713:G:H5"	37:BR:44:SER:C	2.23	0.58
18:B3:2808:U:O2	22:BC:14:GLY:O	2.21	0.58
19:B4:22:G:O3'	19:B4:23:U:C4'	2.52	0.58
20:BA:68:PHE:HE2	20:BA:116:LEU:HB3	1.68	0.58
21:BB:155:LYS:HE2	21:BB:155:LYS:CA	2.29	0.58
22:BC:55:ILE:HG23	22:BC:57:ARG:HG3	1.86	0.58
22:BC:69:ARG:CG	37:BR:89:ASP:HA	2.33	0.58
23:BD:133:LEU:HD21	23:BD:243:LEU:HB2	1.85	0.58
23:BD:165:VAL:O	23:BD:168:LEU:HG	2.01	0.58
23:BD:215:VAL:HG11	23:BD:218:LEU:HB2	1.85	0.58
24:BE:108:ARG:HA	24:BE:112:ARG:HG2	1.86	0.58
24:BE:231:ILE:HD12	24:BE:231:ILE:N	2.17	0.58
25:BF:168:ILE:HD13	25:BF:179:SER:N	2.17	0.58
26:BG:166:PRO:HD3	26:BG:176:TYR:OH	2.04	0.58
27:BH:99:ILE:HD11	27:BH:114:VAL:CG1	2.27	0.58
28:BI:50:VAL:C	28:BI:166:ILE:HD11	2.24	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:39:LEU:HD23	29:BJ:40:SER:N	2.18	0.58
29:BJ:140:ARG:C	29:BJ:142:ARG:HD2	2.24	0.58
30:BK:22:VAL:HG13	30:BK:23:GLY:N	2.16	0.58
35:BP:21:VAL:CA	35:BP:51:LYS:HB2	2.33	0.58
35:BP:56:VAL:HG12	35:BP:57:HIS:N	2.18	0.58
37:BR:78:VAL:HG21	37:BR:81:GLN:NE2	2.15	0.58
37:BR:92:PHE:CE1	38:BS:20:LEU:CG	2.86	0.58
40:BU:107:THR:O	40:BU:108:LYS:HB2	2.03	0.58
41:BV:26:LYS:HA	41:BV:26:LYS:HZ2	1.67	0.58
41:BV:126:ALA:O	41:BV:146:LEU:HB2	2.03	0.58
42:B0:84:THR:HG23	42:B0:84:THR:O	2.04	0.58
43:BW:77:LYS:H	43:BW:82:GLU:CG	2.13	0.58
44:BX:18:ALA:HA	44:BX:21:LEU:CD1	2.31	0.58
1:AA:144:G:O4'	1:AA:200:G:OP2	2.21	0.58
1:AA:292:G:C2'	1:AA:608:A:C6	2.50	0.58
1:AA:676:A:N1	11:AK:123:ASP:HB3	2.19	0.58
1:AA:1317:C:H2'	1:AA:1318:A:O4'	2.03	0.58
1:AA:1419:G:C2	18:B3:1990:C:C4'	2.70	0.58
2:AT:465:LYS:HB3	2:AT:512:SER:O	2.04	0.58
3:AB:13:ALA:CB	3:AB:175:LEU:HD11	2.34	0.58
3:AB:75:ILE:HG21	3:AB:122:VAL:HG23	1.86	0.58
3:AB:172:ILE:HD12	3:AB:172:ILE:H	1.69	0.58
4:AC:41:THR:OG1	4:AC:42:PRO:HD2	2.04	0.58
4:AC:54:THR:HG23	4:AC:89:ARG:HG2	1.85	0.58
7:AG:157:GLN:HE21	7:AG:157:GLN:HA	1.68	0.58
9:AI:13:LYS:HZ2	9:AI:75:SER:N	2.02	0.58
9:AI:58:LYS:HB2	9:AI:62:ILE:HG13	1.85	0.58
11:AK:15:VAL:HG13	11:AK:81:LYS:HZ2	1.68	0.58
11:AK:26:PHE:HZ	11:AK:28:HIS:HB3	1.64	0.58
13:AM:131:LEU:CD1	17:AS:121:ILE:CG2	2.79	0.58
15:AO:85:GLU:HB3	15:AO:89:TYR:OH	2.04	0.58
18:B3:72:C:C5'	44:BX:49:LYS:O	2.51	0.58
18:B3:107:U:O2'	44:BX:59:ASN:HB3	2.03	0.58
18:B3:243:A:O4'	18:B3:377:C:O3'	2.12	0.58
18:B3:282:C:O2'	18:B3:283:U:H4'	2.03	0.58
18:B3:392:U:H5'	31:BL:195:THR:C	2.24	0.58
18:B3:765:G:H5'	23:BD:84:SER:CB	2.33	0.58
18:B3:1060:C:H4'	18:B3:2531:U:H4'	1.86	0.58
18:B3:1243:C:H5'	32:BM:17:ARG:CZ	2.10	0.58
18:B3:1730:G:H5'	18:B3:1731:C:C6	2.38	0.58
18:B3:1733:A:O4'	22:BC:225:PHE:CE1	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2060:A:H4'	42:B0:25:TYR:HD1	1.57	0.58
18:B3:2081:A:O4'	32:BM:69:PRO:HG2	2.03	0.58
18:B3:2274:A:H2'	31:BL:80:TYR:CB	2.32	0.58
18:B3:2578:G:O2'	18:B3:2680:A:C4'	2.52	0.58
18:B3:2765:C:O2'	22:BC:325:GLY:CA	2.52	0.58
19:B4:45:A:H5'	29:BJ:140:ARG:NH1	2.18	0.58
20:BA:121:PRO:CD	20:BA:134:PHE:HE1	2.17	0.58
22:BC:49:LYS:N	22:BC:78:VAL:HG13	2.18	0.58
27:BH:92:TYR:CD1	27:BH:179:ILE:HG21	2.27	0.58
27:BH:102:ASN:N	27:BH:113:GLU:HB3	2.06	0.58
28:BI:135:ILE:HD12	28:BI:135:ILE:H	1.68	0.58
29:BJ:59:ARG:HD2	29:BJ:61:ASN:O	2.04	0.58
30:BK:106:LEU:HD12	30:BK:106:LEU:N	2.18	0.58
33:BN:17:ARG:HD3	33:BN:145:ILE:HD11	1.86	0.58
34:BO:74:GLU:HB2	34:BO:138:LEU:CG	2.32	0.58
35:BP:9:LEU:HB2	35:BP:37:ARG:HH21	1.67	0.58
35:BP:40:ILE:HD12	35:BP:40:ILE:N	2.19	0.58
35:BP:40:ILE:O	35:BP:41:ARG:HG2	2.03	0.58
37:BR:95:PHE:CD1	38:BS:21:PHE:CD1	2.92	0.58
40:BU:30:LEU:HD13	40:BU:78:PHE:CZ	2.38	0.58
41:BV:39:HIS:CB	41:BV:42:ILE:HB	2.34	0.58
41:BV:76:LYS:HZ3	41:BV:76:LYS:CA	2.16	0.58
42:B0:72:LYS:HD3	42:B0:90:LYS:CE	2.34	0.58
42:B0:115:LEU:H	42:B0:115:LEU:HD22	1.69	0.58
43:BW:51:ALA:HA	43:BW:53:GLU:HG2	1.86	0.58
44:BX:48:ARG:HA	44:BX:51:ILE:HG22	1.86	0.58
46:BZ:72:GLU:CA	46:BZ:79:ARG:HG3	2.33	0.58
47:B9:21:LEU:HA	47:B9:22:ARG:CZ	2.34	0.58
47:B9:32:GLN:CG	47:B9:68:TYR:HB2	2.29	0.58
1:AA:144:G:C6	1:AA:199:G:C4'	2.81	0.58
1:AA:513:C:O2'	1:AA:514:C:H5'	2.04	0.58
1:AA:519:C:H5"	12:AL:67:ALA:CB	2.34	0.58
1:AA:523:A:N6	12:AL:116:ASP:CB	2.62	0.58
1:AA:956:U:H4'	17:AS:126:VAL:CG1	2.34	0.58
1:AA:1195:C:H3'	1:AA:1196:U:C5'	2.33	0.58
1:AA:1318:A:N3	17:AS:80:MET:SD	2.77	0.58
2:AT:111:PHE:O	2:AT:484:SER:O	2.22	0.58
2:AT:112:SER:CB	2:AT:537:HIS:CG	2.86	0.58
2:AT:744:TYR:OH	18:B3:1171:A:N3	2.31	0.58
5:AD:141:VAL:HG13	5:AD:143:ILE:HG22	1.86	0.58
7:AG:110:VAL:HG21	9:AI:43:LEU:HG	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:111:ARG:NH2	9:AI:41:GLU:OE1	2.35	0.58
8:AH:39:VAL:HG11	8:AH:102:ILE:CD1	2.17	0.58
8:AH:104:THR:OG1	8:AH:125:LEU:HD11	2.04	0.58
13:AM:81:ILE:CG1	13:AM:82:PRO:HD2	2.29	0.58
18:B3:72:C:C4'	44:BX:49:LYS:HZ3	2.07	0.58
18:B3:123:U:H3'	39:BT:87:MET:HG2	1.83	0.58
18:B3:170:U:H4'	31:BL:82:LYS:CD	2.33	0.58
18:B3:170:U:P	31:BL:82:LYS:HB2	2.44	0.58
18:B3:290:C:O2'	18:B3:291:C:H5'	2.03	0.58
18:B3:952:G:H5'	36:BQ:14:MET:SD	2.44	0.58
18:B3:1133:A:N1	18:B3:2500:C:C2	2.72	0.58
18:B3:1382:G:H21	43:BW:29:PRO:HD3	1.68	0.58
18:B3:1428:C:C5'	33:BN:124:GLN:CD	2.70	0.58
18:B3:1667:A:H2'	18:B3:1668:U:H6	1.68	0.58
18:B3:1794:G:H5'	35:BP:97:ARG:CD	2.33	0.58
18:B3:2060:A:O2'	42:B0:24:ARG:HD2	2.01	0.58
18:B3:2558:G:O2'	18:B3:2799:A:O2'	2.22	0.58
18:B3:2709:G:C3'	37:BR:9:THR:N	2.60	0.58
20:BA:7:SER:HA	20:BA:10:ARG:NE	2.19	0.58
20:BA:114:GLU:HG3	20:BA:138:VAL:C	2.25	0.58
22:BC:235:LYS:HE2	22:BC:246:ARG:HH22	1.68	0.58
25:BF:151:GLY:HA3	25:BF:162:LEU:CG	2.34	0.58
26:BG:112:ALA:N	26:BG:117:GLU:HB2	2.15	0.58
26:BG:132:LYS:CD	26:BG:137:HIS:HB3	2.31	0.58
26:BG:151:LEU:N	26:BG:198:ALA:HB1	2.18	0.58
26:BG:157:ASP:HB3	26:BG:158:PRO:CD	2.33	0.58
27:BH:29:GLY:C	27:BH:82:VAL:HG22	2.24	0.58
28:BI:52:LEU:HD11	28:BI:137:SER:CA	2.33	0.58
28:BI:69:ARG:HG3	28:BI:69:ARG:NH1	2.19	0.58
28:BI:69:ARG:HH11	28:BI:69:ARG:C	2.07	0.58
29:BJ:68:VAL:CG1	29:BJ:69:THR:H	2.17	0.58
32:BM:15:VAL:HG23	32:BM:16:GLY:N	2.18	0.58
33:BN:32:ALA:HB2	33:BN:117:GLN:NE2	2.18	0.58
33:BN:41:THR:HG22	33:BN:41:THR:O	2.03	0.58
34:BO:64:VAL:O	34:BO:64:VAL:HG23	2.04	0.58
35:BP:22:TRP:CE2	35:BP:49:ILE:HG23	2.38	0.58
36:BQ:52:MET:HG2	36:BQ:53:PRO:O	2.04	0.58
36:BQ:74:VAL:CG1	36:BQ:91:LEU:HD21	2.33	0.58
36:BQ:89:LEU:O	36:BQ:89:LEU:HD12	2.02	0.58
41:BV:126:ALA:C	41:BV:146:LEU:HD12	2.24	0.58
41:BV:143:VAL:HG13	41:BV:144:VAL:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:29:ALA:HB3	42:B0:31:ASN:OD1	2.03	0.58
42:B0:61:LYS:O	42:B0:61:LYS:HE2	2.02	0.58
46:BZ:70:ARG:NH2	46:BZ:79:ARG:H	2.01	0.58
1:AA:64:G:C2	1:AA:73:C:C4	2.92	0.58
1:AA:303:A:O2'	1:AA:556:C:H5'	2.04	0.58
1:AA:457:C:H2'	1:AA:458:C:H6	1.68	0.58
1:AA:812:C:O2'	1:AA:813:U:P	2.62	0.58
1:AA:959:A:N7	17:AS:100:LYS:HB3	2.18	0.58
1:AA:991:U:O2'	1:AA:992:U:H5'	2.04	0.58
1:AA:1054:C:OP1	1:AA:1197:G:OP1	2.21	0.58
1:AA:1223:C:C5'	17:AS:100:LYS:HD2	2.29	0.58
1:AA:1343:G:H4'	9:AI:137:PHE:CA	2.31	0.58
2:AT:482:LYS:HB2	2:AT:793:PHE:HZ	1.69	0.58
4:AC:36:VAL:O	4:AC:36:VAL:HG13	2.03	0.58
4:AC:38:VAL:HG23	4:AC:38:VAL:O	2.03	0.58
4:AC:83:ILE:HG22	4:AC:84:VAL:O	2.04	0.58
5:AD:61:THR:HG23	5:AD:62:ARG:N	2.19	0.58
5:AD:110:GLN:HG3	5:AD:126:ARG:HA	1.86	0.58
8:AH:30:SER:H	8:AH:33:ILE:CG2	2.17	0.58
9:AI:29:LYS:CD	9:AI:32:GLY:H	2.16	0.58
10:AJ:37:VAL:O	10:AJ:41:ILE:HD13	2.04	0.58
14:AN:31:ARG:HG3	14:AN:32:LYS:N	2.18	0.58
14:AN:36:ASN:CA	14:AN:41:CYS:HB2	2.34	0.58
18:B3:215:A:H5"	41:BV:58:ARG:HG3	1.83	0.58
18:B3:521:A:C5'	42:B0:26:HIS:NE2	2.67	0.58
18:B3:618:G:C2'	42:B0:41:VAL:HG22	2.29	0.58
18:B3:843:A:C3'	33:BN:130:ARG:HG3	2.33	0.58
18:B3:968:G:O2'	28:BI:39:LYS:CD	2.50	0.58
18:B3:1167:G:P	30:BK:45:ASP:HA	2.39	0.58
18:B3:1286:A:P	25:BF:155:ILE:HA	2.44	0.58
18:B3:1398:G:P	35:BP:23:LEU:CB	2.83	0.58
18:B3:2169:C:H5"	20:BA:26:ARG:HG3	1.86	0.58
20:BA:55:LEU:HG	20:BA:157:PHE:HA	1.82	0.58
21:BB:67:LYS:HE3	21:BB:72:GLU:HG3	1.85	0.58
21:BB:147:VAL:HG22	21:BB:155:LYS:H	1.69	0.58
21:BB:206:VAL:HG13	21:BB:206:VAL:O	2.04	0.58
22:BC:260:MET:HE3	32:BM:66:THR:HG23	1.81	0.58
24:BE:81:HIS:HA	24:BE:92:LEU:CD1	2.34	0.58
27:BH:48:VAL:N	27:BH:53:ILE:HG22	2.19	0.58
27:BH:165:CYS:HB2	27:BH:178:GLY:HA2	1.85	0.58
28:BI:53:VAL:HG11	28:BI:166:ILE:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:28:ARG:HG3	29:BJ:29:LEU:N	2.18	0.58
29:BJ:59:ARG:HB3	29:BJ:59:ARG:HH11	1.69	0.58
29:BJ:152:LYS:HD3	29:BJ:152:LYS:H	1.67	0.58
33:BN:35:ILE:CB	33:BN:43:ALA:HB2	2.30	0.58
33:BN:41:THR:HB	33:BN:109:THR:HG23	1.85	0.58
33:BN:58:PRO:CA	33:BN:80:ALA:HB2	2.30	0.58
35:BP:22:TRP:HE1	35:BP:49:ILE:HD12	1.68	0.58
35:BP:44:VAL:HG13	35:BP:45:LYS:N	2.19	0.58
37:BR:27:ASP:O	37:BR:101:VAL:HG23	2.04	0.58
37:BR:92:PHE:HD1	38:BS:20:LEU:CD2	2.08	0.58
40:BU:63:LYS:NZ	40:BU:97:ILE:HD11	2.19	0.58
41:BV:34:ALA:HB3	41:BV:43:ASN:HB3	1.86	0.58
41:BV:75:ASP:OD2	41:BV:114:LYS:HG3	2.04	0.58
42:B0:16:LYS:H	42:B0:16:LYS:HZ3	1.50	0.58
42:B0:105:ARG:HH12	42:B0:108:ILE:HG22	1.68	0.58
44:BX:47:VAL:HG13	44:BX:48:ARG:N	2.18	0.58
47:B9:59:CYS:O	47:B9:61:LYS:HD2	2.04	0.58
1:AA:13:U:H4'	1:AA:914:A:OP2	2.04	0.57
1:AA:57:G:H1'	1:AA:368:U:N3	2.17	0.57
1:AA:118:U:O2	1:AA:122:G:N3	1.95	0.57
1:AA:449:C:H5'	5:AD:131:GLN:O	2.04	0.57
2:AT:749:LYS:CG	18:B3:2508:C:C5	2.87	0.57
4:AC:9:LYS:HB2	4:AC:12:ALA:HB3	1.85	0.57
4:AC:20:LEU:HD21	4:AC:76:PHE:CD1	2.39	0.57
4:AC:115:ARG:HA	4:AC:149:MET:CE	2.33	0.57
7:AG:89:ILE:O	7:AG:89:ILE:HG23	2.04	0.57
7:AG:107:LEU:HD23	7:AG:107:LEU:N	2.19	0.57
7:AG:112:ILE:HG23	7:AG:113:ILE:N	2.20	0.57
10:AJ:69:LYS:HE2	10:AJ:80:GLU:OE1	2.04	0.57
10:AJ:108:ILE:HG23	10:AJ:109:GLU:N	2.14	0.57
18:B3:703:G:O2'	18:B3:704:C:H5'	2.04	0.57
18:B3:763:C:O2'	23:BD:85:GLY:C	2.42	0.57
18:B3:764:C:N1	23:BD:86:GLN:HG3	2.19	0.57
18:B3:767:A:OP2	23:BD:62:GLU:OE1	2.22	0.57
18:B3:949:U:O4'	36:BQ:100:LYS:CA	2.49	0.57
18:B3:1360:C:H1'	23:BD:88:ALA:H	1.69	0.57
18:B3:1794:G:C2'	35:BP:96:ARG:HG2	2.32	0.57
18:B3:2334:C:O4'	29:BJ:114:LYS:HB2	1.95	0.57
18:B3:2579:G:C5'	18:B3:2680:A:H5'	2.34	0.57
18:B3:2907:C:H2'	18:B3:2908:A:O4'	2.04	0.57
20:BA:56:PRO:HA	20:BA:156:LYS:HG2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:67:ILE:CD1	20:BA:77:ALA:HB2	2.33	0.57
21:BB:28:LEU:HD12	21:BB:29:ARG:HH21	1.67	0.57
21:BB:55:ALA:HB2	21:BB:129:SER:OG	2.04	0.57
21:BB:177:PRO:CB	47:B9:22:ARG:CZ	2.82	0.57
22:BC:15:PHE:HD2	22:BC:18:ARG:HD2	1.66	0.57
22:BC:46:LEU:CD1	22:BC:47:GLY:H	2.17	0.57
22:BC:48:TYR:CD2	22:BC:334:ILE:HG23	2.39	0.57
22:BC:165:ILE:HD13	22:BC:172:GLN:O	2.03	0.57
22:BC:214:ILE:HD12	22:BC:340:SER:HA	1.86	0.57
22:BC:239:ARG:O	22:BC:239:ARG:HG2	2.03	0.57
22:BC:282:TYR:CE2	22:BC:324:LYS:HG3	2.38	0.57
22:BC:353:VAL:HG22	22:BC:354:SER:H	1.69	0.57
23:BD:75:ARG:HG2	23:BD:80:GLY:HA2	1.85	0.57
24:BE:88:ILE:HG12	24:BE:89:THR:H	1.69	0.57
25:BF:179:SER:H	25:BF:183:LEU:HD21	1.69	0.57
27:BH:43:VAL:HG11	32:BM:127:ARG:N	2.18	0.57
28:BI:31:ILE:HG23	28:BI:31:ILE:O	2.04	0.57
29:BJ:33:SER:HA	29:BJ:36:LEU:HD21	1.85	0.57
29:BJ:44:PRO:HG2	29:BJ:68:VAL:N	2.19	0.57
29:BJ:91:ARG:HD3	29:BJ:159:VAL:HG21	1.85	0.57
29:BJ:166:TYR:CD1	29:BJ:167:ASP:HB2	2.39	0.57
30:BK:18:VAL:HG12	30:BK:19:GLY:N	2.19	0.57
30:BK:37:LEU:HD22	30:BK:62:LEU:HD13	1.85	0.57
35:BP:21:VAL:O	35:BP:21:VAL:HG13	2.03	0.57
35:BP:132:LYS:HB3	35:BP:136:ALA:CB	2.34	0.57
39:BT:69:GLU:O	39:BT:72:MET:HE1	2.03	0.57
41:BV:76:LYS:NZ	41:BV:76:LYS:HA	2.19	0.57
41:BV:134:GLU:HB3	41:BV:138:ARG:CD	2.21	0.57
42:B0:14:THR:HG23	42:B0:15:LYS:N	2.20	0.57
46:BZ:88:LYS:HD3	46:BZ:89:HIS:HB2	1.84	0.57
1:AA:31:G:N3	1:AA:47:C:P	2.76	0.57
1:AA:59:A:C5'	1:AA:388:G:C4	2.87	0.57
1:AA:337:C:H5'	1:AA:1468:A:N1	2.18	0.57
1:AA:545:C:O5'	5:AD:30:LEU:CD1	2.51	0.57
1:AA:634:C:C6	16:AQ:92:TYR:HE2	2.22	0.57
1:AA:679:C:N1	11:AK:125:THR:OG1	2.36	0.57
1:AA:736:C:H2'	1:AA:737:A:C8	2.39	0.57
1:AA:1075:C:H5'	3:AB:102:THR:HG22	1.86	0.57
1:AA:1298:C:O5'	13:AM:57:ARG:NH2	2.38	0.57
1:AA:1330:U:H1'	13:AM:93:THR:HB	1.85	0.57
2:AT:103:ILE:HD12	2:AT:122:THR:CG2	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:101:ALA:HB1	4:AC:183:ILE:HG23	1.86	0.57
4:AC:172:ARG:HB3	4:AC:183:ILE:HG22	1.86	0.57
5:AD:66:ASP:HB2	5:AD:67:PRO:HD2	1.85	0.57
9:AI:43:LEU:N	9:AI:43:LEU:HD22	2.19	0.57
9:AI:46:LYS:HB3	9:AI:49:GLU:HG3	1.87	0.57
10:AJ:32:LYS:CE	10:AJ:35:GLU:HB2	2.34	0.57
10:AJ:70:THR:C	14:AN:42:PHE:CB	2.70	0.57
15:AO:82:GLU:HA	15:AO:85:GLU:HB2	1.85	0.57
18:B3:473:A:OP1	45:BY:48:TRP:CZ2	2.55	0.57
18:B3:617:C:C2	42:B0:46:PHE:O	2.57	0.57
18:B3:945:U:H2'	18:B3:946:C:C6	2.38	0.57
18:B3:953:G:C4'	36:BQ:13:TYR:CE2	2.87	0.57
18:B3:1184:A:H5'	30:BK:85:LEU:CD1	2.34	0.57
18:B3:1469:C:C5'	31:BL:71:LYS:HZ2	2.18	0.57
18:B3:1798:C:O5'	35:BP:70:ARG:O	2.21	0.57
18:B3:1805:G:C2	18:B3:2883:A:C6	2.92	0.57
18:B3:1805:G:H2'	18:B3:1806:G:H8	1.68	0.57
18:B3:2334:C:C5'	29:BJ:111:LEU:HA	2.34	0.57
18:B3:2580:G:H5'	18:B3:2680:A:N6	2.14	0.57
19:B4:96:C:C2	25:BF:220:LYS:HE2	2.38	0.57
20:BA:34:LEU:HD11	20:BA:36:VAL:CG2	2.34	0.57
20:BA:55:LEU:CA	20:BA:155:ILE:HG22	2.34	0.57
20:BA:123:LEU:HD22	20:BA:123:LEU:N	2.18	0.57
21:BB:167:VAL:HG12	21:BB:168:ILE:N	2.19	0.57
22:BC:241:THR:HG21	22:BC:247:LYS:CD	2.33	0.57
22:BC:328:PRO:HG2	22:BC:330:ASN:ND2	2.18	0.57
22:BC:334:ILE:HG12	22:BC:335:VAL:N	2.16	0.57
23:BD:149:LEU:HD21	23:BD:248:ILE:HD12	1.85	0.57
25:BF:82:LEU:HD13	25:BF:137:TYR:CE2	2.39	0.57
26:BG:163:VAL:CG2	31:BL:17:VAL:HG21	2.33	0.57
26:BG:178:ILE:HD12	26:BG:178:ILE:N	2.18	0.57
27:BH:75:VAL:HB	27:BH:78:MET:HE3	1.86	0.57
27:BH:156:GLN:HA	27:BH:159:ALA:HB3	1.87	0.57
29:BJ:61:ASN:H	29:BJ:61:ASN:HD22	1.51	0.57
32:BM:11:LYS:HD3	32:BM:36:ARG:NH1	2.12	0.57
32:BM:88:SER:HA	32:BM:90:LYS:NZ	2.19	0.57
36:BQ:60:LYS:HB3	36:BQ:76:ILE:HD12	1.86	0.57
37:BR:93:LEU:HB2	38:BS:21:PHE:CD2	2.39	0.57
40:BU:31:LEU:HD22	40:BU:101:PRO:HG2	1.85	0.57
41:BV:11:ARG:HB3	41:BV:11:ARG:HH11	1.67	0.57
46:BZ:27:TYR:HD1	46:BZ:70:ARG:H	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:84:LEU:C	46:BZ:86:ARG:HH12	2.08	0.57
47:B9:16:ARG:HG2	47:B9:17:TYR:N	2.19	0.57
47:B9:76:ALA:O	47:B9:77:THR:HG23	2.03	0.57
1:AA:64:G:O2'	1:AA:96:G:C6	2.56	0.57
1:AA:124:G:C5'	1:AA:290:C:C2	2.53	0.57
1:AA:142:G:N2	1:AA:221:C:O2	2.36	0.57
1:AA:190(D):U:C4	16:AQ:112:PRO:HD3	2.37	0.57
1:AA:190(D):U:H3	16:AQ:111:SER:HB2	1.67	0.57
1:AA:190(E):U:O5'	16:AQ:109:HIS:CD2	2.51	0.57
1:AA:537:G:H4'	12:AL:143:PRO:HG2	1.85	0.57
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.39	0.57
1:AA:1320:C:O2'	13:AM:122:HIS:NE2	2.32	0.57
3:AB:76:SER:HB3	3:AB:85:VAL:HB	1.84	0.57
4:AC:7:LYS:O	4:AC:10:LEU:HD22	2.03	0.57
4:AC:163:VAL:O	4:AC:163:VAL:HG13	2.04	0.57
11:AK:38:ILE:HG21	11:AK:69:LYS:HB2	1.86	0.57
16:AQ:138:VAL:O	16:AQ:138:VAL:HG23	2.04	0.57
18:B3:68:U:C4'	44:BX:51:ILE:O	2.52	0.57
18:B3:264:G:H1	26:BG:137:HIS:CD2	2.23	0.57
18:B3:396:U:O2'	18:B3:418:C:H4'	2.05	0.57
18:B3:660:A:H4'	18:B3:661:G:O5'	2.05	0.57
18:B3:672:G:OP1	23:BD:213:GLY:HA2	2.03	0.57
18:B3:707:C:H41	34:BO:72:LYS:CE	2.17	0.57
18:B3:750:A:H4'	23:BD:113:ASN:H	1.69	0.57
18:B3:772:G:N2	45:BY:46:TYR:HE2	2.02	0.57
18:B3:881:C:C2	45:BY:7:PHE:HE2	2.19	0.57
18:B3:945:U:H2'	18:B3:946:C:H6	1.69	0.57
18:B3:1349:G:OP1	23:BD:35:HIS:O	2.22	0.57
18:B3:1358:A:N6	23:BD:88:ALA:HA	2.19	0.57
18:B3:1749:U:H4'	22:BC:239:ARG:HH22	1.69	0.57
18:B3:2165:G:C2'	20:BA:33:GLU:CG	2.79	0.57
18:B3:2167:A:H61	20:BA:60:ARG:NH2	1.95	0.57
19:B4:6:C:C1'	24:BE:72:ASP:OD2	2.51	0.57
19:B4:26:C:O2'	19:B4:27:C:H5'	2.04	0.57
19:B4:69:U:C2'	24:BE:14:SER:HG	2.06	0.57
20:BA:67:ILE:CD1	20:BA:144:LEU:HD21	2.34	0.57
21:BB:57:LEU:CB	21:BB:74:ILE:HG23	2.34	0.57
22:BC:42:LEU:HD11	22:BC:85:VAL:HG11	1.86	0.57
22:BC:117:PHE:HB3	22:BC:118:TYR:CD1	2.39	0.57
22:BC:127:LYS:CE	22:BC:128:ALA:H	2.17	0.57
23:BD:50:ALA:HB2	23:BD:104:THR:H	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:68:ARG:NH2	23:BD:69:ALA:H	2.03	0.57
23:BD:144:ILE:HD13	23:BD:144:ILE:C	2.25	0.57
24:BE:55:PHE:CZ	24:BE:158:ARG:HB2	2.39	0.57
24:BE:64:ILE:HD11	24:BE:144:VAL:CG2	2.34	0.57
26:BG:148:LYS:HB2	26:BG:149:LEU:HD22	1.86	0.57
27:BH:20:ILE:HG23	27:BH:47:LYS:HE2	1.84	0.57
27:BH:89:LYS:HG3	27:BH:144:ILE:O	2.04	0.57
28:BI:54:SER:CA	28:BI:135:ILE:HD11	2.33	0.57
28:BI:134:ILE:H	28:BI:134:ILE:CD1	2.13	0.57
28:BI:151:GLY:CA	28:BI:154:ARG:HE	2.15	0.57
30:BK:71:ALA:CB	30:BK:115:GLN:HA	2.34	0.57
31:BL:32:LYS:HA	31:BL:32:LYS:CE	2.24	0.57
32:BM:11:LYS:HA	32:BM:39:GLU:O	2.05	0.57
32:BM:14:LEU:HD12	32:BM:17:ARG:HD2	1.85	0.57
34:BO:36:LEU:HD22	34:BO:130:ARG:NH1	2.19	0.57
34:BO:64:VAL:C	34:BO:92:ARG:HH21	2.08	0.57
42:B0:85:LEU:HD23	42:B0:85:LEU:O	2.04	0.57
45:BY:27:HIS:C	45:BY:30:LYS:HD3	2.24	0.57
46:BZ:24:VAL:HG12	46:BZ:71:LEU:HD11	1.87	0.57
1:AA:12:U:O2'	1:AA:526:C:H5"	2.04	0.57
1:AA:24:U:OP1	12:AL:39:LYS:CD	2.53	0.57
1:AA:64:G:O2'	1:AA:96:G:C5	2.58	0.57
1:AA:107:G:H8	1:AA:378:G:O2'	1.87	0.57
1:AA:404:U:O2'	5:AD:23:ARG:CZ	2.47	0.57
1:AA:499:A:C2'	1:AA:500:G:H5'	2.33	0.57
1:AA:552:U:O2'	12:AL:48:HIS:HA	2.03	0.57
1:AA:1021:G:H2'	1:AA:1022:G:O4'	2.04	0.57
1:AA:1220:G:P	17:AS:80:MET:CB	2.92	0.57
1:AA:1226:C:N1	17:AS:126:VAL:O	2.37	0.57
1:AA:1309:G:N1	13:AM:96:LYS:N	2.49	0.57
1:AA:1343:G:C4'	9:AI:136:ARG:O	2.53	0.57
8:AH:47:GLY:O	8:AH:48:GLU:HB2	2.04	0.57
18:B3:106:A:C5'	44:BX:60:GLU:OE2	2.49	0.57
18:B3:175:G:H1	31:BL:85:ASN:ND2	2.01	0.57
18:B3:219:G:H4'	46:BZ:52:GLN:CG	2.29	0.57
18:B3:448:G:N2	23:BD:47:GLN:HB2	2.18	0.57
18:B3:1182:U:C4'	30:BK:143:VAL:OXT	2.20	0.57
18:B3:1310:U:O4	23:BD:202:ARG:N	2.37	0.57
18:B3:1342:C:O2'	18:B3:1343:C:H5'	2.02	0.57
18:B3:1446:U:P	39:BT:70:THR:N	2.78	0.57
18:B3:1506:U:H6	18:B3:1506:U:H5'	1.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1597:A:O2'	35:BP:94:TRP:HH2	1.76	0.57
18:B3:1874:U:C4	21:BB:124:ALA:CB	2.80	0.57
18:B3:2165:G:C1'	20:BA:207:LYS:HE2	2.27	0.57
18:B3:2382:A:H4'	46:BZ:12:LYS:CB	2.34	0.57
18:B3:2385:G:H22	36:BQ:69:LYS:NZ	2.02	0.57
18:B3:2414:A:H2'	18:B3:2415:A:C8	2.40	0.57
18:B3:2457:U:O2'	46:BZ:84:LEU:HG	2.05	0.57
18:B3:2546:U:C2'	22:BC:235:LYS:CG	2.81	0.57
18:B3:2755:G:H5"	38:BS:38:SER:CB	2.34	0.57
18:B3:2828:G:OP2	22:BC:129:PHE:CD1	2.57	0.57
19:B4:97:U:H3	25:BF:220:LYS:CG	2.18	0.57
20:BA:32:VAL:HG11	20:BA:179:LEU:HD23	1.85	0.57
21:BB:177:PRO:HG3	47:B9:25:VAL:HG21	1.85	0.57
22:BC:26:ALA:HA	22:BC:27:ARG:CZ	2.34	0.57
25:BF:151:GLY:HA3	25:BF:162:LEU:HD11	1.86	0.57
25:BF:179:SER:N	25:BF:183:LEU:HD21	2.20	0.57
26:BG:108:LEU:CD2	26:BG:108:LEU:H	2.18	0.57
27:BH:13:PRO:HD2	27:BH:16:VAL:HG22	1.86	0.57
27:BH:25:VAL:HG22	27:BH:26:LYS:H	1.69	0.57
27:BH:84:LYS:O	27:BH:84:LYS:HG3	2.05	0.57
28:BI:12:GLN:OE1	28:BI:128:ARG:HD2	2.04	0.57
29:BJ:67:HIS:C	29:BJ:68:VAL:HG23	2.25	0.57
29:BJ:119:ILE:HD13	29:BJ:119:ILE:C	2.25	0.57
31:BL:114:VAL:HG21	31:BL:116:ASN:ND2	2.18	0.57
31:BL:130:GLU:O	31:BL:131:VAL:HG23	2.05	0.57
32:BM:38:GLU:O	32:BM:137:LEU:HB3	2.04	0.57
35:BP:114:ILE:CG2	35:BP:119:TYR:HB3	2.34	0.57
35:BP:138:VAL:O	35:BP:141:ILE:HB	2.05	0.57
36:BQ:63:VAL:H	36:BQ:77:ASN:HB3	1.70	0.57
37:BR:31:ALA:HB1	37:BR:32:ARG:CZ	2.34	0.57
39:BT:72:MET:HA	39:BT:75:VAL:CG2	2.34	0.57
39:BT:94:ILE:HD13	39:BT:121:ALA:CB	2.35	0.57
41:BV:63:GLN:HG3	41:BV:64:GLN:O	2.04	0.57
41:BV:80:LEU:HD23	41:BV:80:LEU:C	2.25	0.57
41:BV:97:THR:HG23	41:BV:123:ILE:O	2.05	0.57
42:B0:42:VAL:CG2	42:B0:49:ASN:HD22	2.17	0.57
45:BY:32:THR:CB	45:BY:38:TYR:HB2	2.33	0.57
1:AA:190(D):U:N3	16:AQ:111:SER:CB	2.68	0.57
1:AA:363:A:H1'	12:AL:48:HIS:C	2.24	0.57
1:AA:405:U:C5'	5:AD:37:LYS:CE	2.83	0.57
1:AA:740:U:H5'	15:AO:100:HIS:ND1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:860:A:HO2'	8:AH:18:LYS:HD2	1.69	0.57
1:AA:1278:U:C5'	1:AA:1279:A:O4'	2.53	0.57
1:AA:1309:G:N2	13:AM:96:LYS:HB2	2.18	0.57
2:AT:454:ILE:HG13	2:AT:455:GLY:N	2.19	0.57
3:AB:139:ASN:O	8:AH:68:LEU:HG	2.04	0.57
3:AB:176:LEU:HD12	3:AB:176:LEU:C	2.25	0.57
4:AC:38:VAL:HG12	4:AC:47:VAL:HG22	1.85	0.57
12:AL:112:LYS:CG	12:AL:121:ARG:HA	2.27	0.57
18:B3:123:U:N1	39:BT:88:LYS:CE	2.68	0.57
18:B3:795:G:C2'	18:B3:817:G:N2	2.64	0.57
18:B3:905:C:H41	41:BV:9:LYS:HG3	1.69	0.57
18:B3:1056:U:O3'	28:BI:8:CYS:HB3	2.05	0.57
18:B3:1064:U:H2'	18:B3:1065:G:C8	2.39	0.57
18:B3:1280:A:H3'	18:B3:1280:A:OP1	2.03	0.57
18:B3:1676:G:O3'	39:BT:115:PRO:CG	2.52	0.57
18:B3:1853:C:C4'	21:BB:237:ILE:HB	2.33	0.57
18:B3:2121:G:O2'	31:BL:83:PRO:HD2	2.04	0.57
18:B3:2165:G:C2'	20:BA:33:GLU:CB	2.80	0.57
18:B3:2311:A:C2'	28:BI:22:TYR:CE1	2.87	0.57
19:B4:44:A:O3'	29:BJ:140:ARG:HD3	2.04	0.57
21:BB:113:SER:C	21:BB:164:VAL:HG22	2.25	0.57
21:BB:127:ARG:O	21:BB:168:ILE:HG21	2.04	0.57
21:BB:149:LEU:HB2	21:BB:151:SER:O	2.04	0.57
21:BB:187:LYS:HA	21:BB:190:LEU:HD13	1.86	0.57
22:BC:46:LEU:HD23	22:BC:336:THR:HG22	1.86	0.57
22:BC:49:LYS:HD2	22:BC:50:ALA:N	2.19	0.57
26:BG:117:GLU:HG3	26:BG:213:LEU:CD1	2.33	0.57
26:BG:193:THR:HG22	26:BG:194:SER:N	2.19	0.57
27:BH:165:CYS:SG	27:BH:178:GLY:HA3	2.44	0.57
28:BI:24:ARG:HG2	28:BI:25:ALA:N	2.17	0.57
29:BJ:8:MET:HG3	29:BJ:9:ARG:NE	2.18	0.57
31:BL:168:LYS:O	31:BL:171:ARG:HB3	2.04	0.57
32:BM:76:SER:O	32:BM:103:VAL:HG21	2.05	0.57
32:BM:136:THR:O	32:BM:137:LEU:HG	2.05	0.57
33:BN:17:ARG:HD3	33:BN:145:ILE:HG13	1.86	0.57
35:BP:118:LEU:HD12	35:BP:118:LEU:N	2.19	0.57
41:BV:75:ASP:OD2	41:BV:114:LYS:HE3	2.05	0.57
43:BW:48:VAL:HG22	43:BW:49:ARG:N	2.19	0.57
44:BX:11:THR:HG22	44:BX:12:LYS:HD3	1.86	0.57
44:BX:19:SER:H	44:BX:21:LEU:HD22	1.68	0.57
45:BY:24:ARG:HG3	45:BY:25:SER:N	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:25:THR:HG23	46:BZ:27:TYR:N	2.20	0.57
1:AA:538:G:P	12:AL:143:PRO:HD3	2.42	0.57
1:AA:1177:G:C4	9:AI:106:LYS:CD	2.88	0.57
3:AB:135:ALA:HA	3:AB:138:VAL:HG12	1.85	0.57
10:AJ:106:ILE:O	10:AJ:106:ILE:HG13	2.04	0.57
11:AK:45:MET:SD	11:AK:61:LEU:HD13	2.44	0.57
11:AK:127:LYS:HD3	11:AK:131:ARG:CD	2.35	0.57
14:AN:36:ASN:ND2	14:AN:42:PHE:HA	2.19	0.57
16:AQ:87:ARG:CD	16:AQ:104:LYS:HG2	2.32	0.57
17:AS:58:LYS:CE	17:AS:80:MET:HG3	2.28	0.57
18:B3:903:U:C5	41:BV:14:VAL:HG22	2.39	0.57
18:B3:1167:G:C3'	30:BK:111:GLU:HA	2.34	0.57
18:B3:1692:C:O4'	33:BN:129:TYR:CG	2.53	0.57
18:B3:1794:G:OP1	35:BP:97:ARG:CD	2.51	0.57
18:B3:1900:A:P	21:BB:225:SER:CB	2.93	0.57
18:B3:2134:G:C4	18:B3:2258:A:C5	2.72	0.57
18:B3:2346:C:C5	29:BJ:22:VAL:HG12	2.39	0.57
18:B3:2847:G:P	22:BC:173:LYS:HZ1	2.27	0.57
19:B4:6:C:C2	24:BE:48:LYS:NZ	2.72	0.57
21:BB:172:GLY:H	47:B9:68:TYR:HE1	1.50	0.57
22:BC:81:PRO:HB2	22:BC:82:PRO:HA	1.86	0.57
24:BE:106:ALA:CA	24:BE:110:LEU:HB2	2.35	0.57
25:BF:82:LEU:HD13	25:BF:137:TYR:CD2	2.40	0.57
25:BF:168:ILE:HB	25:BF:179:SER:OG	2.05	0.57
25:BF:195:LYS:HB3	25:BF:201:LEU:HB3	1.86	0.57
28:BI:31:ILE:HD11	28:BI:65:LEU:HG	1.86	0.57
28:BI:36:LEU:HG	28:BI:37:GLY:H	1.69	0.57
28:BI:100:ASN:HA	28:BI:112:GLN:CD	2.25	0.57
29:BJ:54:ARG:HG3	29:BJ:55:THR:N	2.20	0.57
31:BL:107:ARG:HA	31:BL:107:ARG:NE	2.12	0.57
31:BL:150:ILE:H	31:BL:150:ILE:CD1	2.15	0.57
31:BL:155:HIS:CE1	31:BL:156:LYS:HB3	2.40	0.57
32:BM:58:ARG:HH11	32:BM:60:ALA:HA	1.69	0.57
34:BO:60:PRO:CG	34:BO:86:THR:HG22	2.33	0.57
35:BP:3:LEU:HD13	35:BP:32:ALA:N	2.19	0.57
36:BQ:35:LYS:O	36:BQ:36:VAL:HG12	2.04	0.57
40:BU:59:VAL:HG13	40:BU:59:VAL:O	2.04	0.57
42:B0:19:ARG:HH11	42:B0:20:HIS:N	2.02	0.57
42:B0:35:GLN:HG2	42:B0:43:ARG:CB	2.34	0.57
42:B0:79:VAL:HG21	42:B0:108:ILE:HD13	1.86	0.57
1:AA:121:C:C2	1:AA:235:C:C4	2.90	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:336:C:H6	1:AA:1433:A:C2'	2.17	0.57
1:AA:668:G:HO2'	15:AO:104:ASN:CG	2.08	0.57
1:AA:677:U:O2	11:AK:125:THR:O	2.22	0.57
1:AA:1130:A:OP2	1:AA:1130:A:H3'	2.04	0.57
1:AA:1147:C:O2'	9:AI:9:PHE:HE1	1.87	0.57
1:AA:1340:A:O2'	9:AI:141:TYR:CE2	2.56	0.57
2:AT:111:PHE:N	2:AT:483:PHE:CB	2.64	0.57
2:AT:415:GLY:H	2:AT:425:ASP:HB3	1.70	0.57
2:AT:464:LEU:HD11	2:AT:506:GLU:OE2	2.04	0.57
3:AB:119:LEU:HG	3:AB:120:VAL:H	1.69	0.57
3:AB:176:LEU:O	3:AB:180:VAL:HG23	2.04	0.57
4:AC:102:GLU:CG	4:AC:172:ARG:HD2	2.35	0.57
5:AD:54:ARG:NH1	5:AD:54:ARG:HB2	2.19	0.57
5:AD:136:VAL:HG23	5:AD:136:VAL:O	2.04	0.57
7:AG:202:LYS:CA	7:AG:205:SER:HB3	2.24	0.57
9:AI:11:LYS:HD3	9:AI:11:LYS:N	2.20	0.57
9:AI:50:PRO:HD3	9:AI:115:LEU:CD1	2.35	0.57
13:AM:20:THR:O	13:AM:20:THR:HG22	2.04	0.57
18:B3:68:U:C5'	44:BX:51:ILE:HD11	2.29	0.57
18:B3:629:A:H5"	42:B0:38:ILE:CB	1.83	0.57
18:B3:663:C:O3'	23:BD:115:ASN:N	2.29	0.57
18:B3:773:A:H1'	45:BY:46:TYR:CE2	2.39	0.57
18:B3:1165:U:C6	30:BK:44:GLU:CD	2.76	0.57
18:B3:1206:C:H2'	18:B3:1207:A:C1'	2.34	0.57
18:B3:1287:A:C2	25:BF:106:ARG:NE	2.72	0.57
18:B3:1370:G:H5'	33:BN:63:ASN:HA	1.82	0.57
18:B3:1805:G:C6	18:B3:2883:A:C4	2.92	0.57
18:B3:2668:G:C4'	22:BC:128:ALA:HB2	2.22	0.57
18:B3:2669:U:H4'	22:BC:130:THR:HG22	1.85	0.57
19:B4:86:G:P	25:BF:218:LYS:HZ3	2.27	0.57
20:BA:16:LEU:HD11	20:BA:207:LYS:HA	1.85	0.57
21:BB:233:LYS:HD2	21:BB:234:ALA:HB2	1.87	0.57
26:BG:122:GLN:O	26:BG:126:PRO:HD2	2.04	0.57
26:BG:143:GLU:OE2	26:BG:144:ASN:HB3	2.05	0.57
26:BG:150:VAL:HG23	26:BG:176:TYR:CB	2.28	0.57
26:BG:212:LYS:HE2	26:BG:213:LEU:HD21	1.86	0.57
27:BH:92:TYR:HD1	27:BH:179:ILE:CG2	2.12	0.57
27:BH:106:LYS:HG3	27:BH:107:ASP:OD1	2.04	0.57
28:BI:18:PRO:HG3	28:BI:94:PHE:CD2	2.39	0.57
29:BJ:84:LYS:HD3	29:BJ:167:ASP:OD1	2.05	0.57
30:BK:65:GLN:CG	30:BK:117:ARG:HH22	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:99:ALA:HA	31:BL:168:LYS:CD	2.34	0.57
31:BL:159:GLU:OE1	31:BL:162:GLY:HA3	2.05	0.57
34:BO:32:LEU:HD12	34:BO:128:ALA:CB	2.35	0.57
38:BS:51:TRP:HA	38:BS:51:TRP:HE3	1.69	0.57
40:BU:70:ILE:HG12	40:BU:80:VAL:HG21	1.85	0.57
42:B0:103:LYS:HG2	42:B0:104:ASN:N	2.20	0.57
43:BW:66:VAL:HG12	43:BW:67:GLU:N	2.19	0.57
1:AA:70:G:O2'	1:AA:152:A:C4	2.58	0.57
1:AA:111:G:C4'	1:AA:389:A:O2'	2.53	0.57
1:AA:364:A:OP1	12:AL:50:LYS:HE2	2.03	0.57
1:AA:402:G:H4'	1:AA:620:C:C1'	2.29	0.57
1:AA:634:C:OP1	16:AQ:92:TYR:C	2.43	0.57
1:AA:642:A:N3	8:AH:104:THR:HG22	2.19	0.57
1:AA:979:C:C1'	17:AS:80:MET:HG2	2.34	0.57
1:AA:1223:C:OP1	17:AS:122:THR:OG1	2.23	0.57
1:AA:1319:A:H8	17:AS:49:MET:SD	2.28	0.57
1:AA:1343:G:C5'	9:AI:138:GLN:N	2.62	0.57
5:AD:48:GLN:HG2	5:AD:49:LEU:N	2.19	0.57
8:AH:74:ILE:HG23	8:AH:74:ILE:O	2.04	0.57
8:AH:81:LYS:HE3	8:AH:123:LYS:CD	2.35	0.57
10:AJ:72:ASN:O	14:AN:20:CYS:N	2.38	0.57
12:AL:120:VAL:HG23	12:AL:120:VAL:O	2.03	0.57
18:B3:487:G:C3'	40:BU:90:VAL:HB	2.33	0.57
18:B3:706:G:H22	34:BO:72:LYS:HE2	1.69	0.57
18:B3:721:A:C5'	34:BO:71:LEU:N	2.66	0.57
18:B3:897:A:OP1	41:BV:26:LYS:HG3	2.01	0.57
18:B3:903:U:P	41:BV:14:VAL:HG23	2.44	0.57
18:B3:1002:G:HO2'	28:BI:90:ARG:HH22	0.58	0.57
18:B3:1164:U:O4	30:BK:52:GLU:OE1	2.23	0.57
18:B3:1181:A:H3'	30:BK:106:LEU:HG	1.86	0.57
18:B3:1577:U:O2'	18:B3:1578:C:H5'	2.05	0.57
18:B3:1717:A:OP1	35:BP:55:THR:HG23	2.04	0.57
18:B3:1795:G:OP1	35:BP:100:VAL:CG1	2.53	0.57
18:B3:2214:A:H5"	20:BA:83:ASP:CB	2.35	0.57
18:B3:2274:A:C2'	31:BL:80:TYR:CD2	2.88	0.57
18:B3:2334:C:OP1	29:BJ:110:ASP:HB3	2.04	0.57
18:B3:2526:C:O2'	18:B3:2527:U:H5'	2.05	0.57
18:B3:2579:G:H4'	18:B3:2680:A:O4'	2.03	0.57
18:B3:2673:U:H1'	22:BC:98:LEU:CD2	2.27	0.57
18:B3:2720:C:O2'	37:BR:92:PHE:O	2.22	0.57
18:B3:2720:C:O4'	37:BR:91:VAL:HG11	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2734:G:OP1	35:BP:79:LYS:CB	2.52	0.57
18:B3:2825:C:H4'	18:B3:2826:G:O5'	2.05	0.57
19:B4:28:U:H6	19:B4:28:U:H5"	1.68	0.57
20:BA:99:LEU:N	20:BA:99:LEU:HD22	2.20	0.57
21:BB:111:ILE:HG22	21:BB:167:VAL:H	1.68	0.57
21:BB:203:MET:HG3	21:BB:207:ASP:HB3	1.86	0.57
22:BC:47:GLY:O	22:BC:78:VAL:HG11	2.05	0.57
22:BC:115:ARG:HG2	22:BC:173:LYS:HD2	1.86	0.57
22:BC:226:GLU:HB2	22:BC:269:ARG:HD2	1.87	0.57
22:BC:231:ARG:HD3	22:BC:232:TRP:N	2.20	0.57
22:BC:280:LYS:H	22:BC:324:LYS:CE	2.18	0.57
22:BC:323:VAL:HG13	22:BC:323:VAL:O	2.05	0.57
23:BD:181:LEU:HB2	23:BD:203:GLY:N	2.19	0.57
24:BE:184:ASP:H	24:BE:187:THR:CG2	2.17	0.57
25:BF:181:ASP:HA	25:BF:184:ILE:HD13	1.86	0.57
26:BG:128:PRO:CB	26:BG:204:ALA:HB3	2.35	0.57
26:BG:196:VAL:HG23	26:BG:196:VAL:O	2.05	0.57
27:BH:42:ASP:N	32:BM:124:ARG:C	2.49	0.57
32:BM:32:ILE:HG13	32:BM:33:VAL:HG13	1.86	0.57
32:BM:37:ALA:HB1	32:BM:79:PHE:CE1	2.40	0.57
33:BN:38:TRP:HE3	33:BN:42:LYS:CG	2.15	0.57
34:BO:81:VAL:HG22	34:BO:101:VAL:CG2	2.34	0.57
35:BP:13:VAL:HG21	35:BP:41:ARG:HG3	1.86	0.57
40:BU:14:LYS:HZ3	40:BU:15:ALA:H	1.53	0.57
40:BU:22:ALA:CB	40:BU:23:PRO:HD3	2.34	0.57
41:BV:85:LYS:HD2	41:BV:85:LYS:O	2.04	0.57
46:BZ:60:LYS:HZ3	46:BZ:62:LYS:HB3	1.68	0.57
46:BZ:67:VAL:HG12	46:BZ:68:VAL:N	2.19	0.57
1:AA:523:A:C6	12:AL:113:ALA:CB	2.76	0.57
1:AA:818:G:C2'	1:AA:819:A:H5"	2.35	0.57
1:AA:925:G:C4'	1:AA:1399:C:OP2	2.52	0.57
1:AA:1086:U:H3	1:AA:1099:G:N2	1.90	0.57
1:AA:1257:U:O2'	1:AA:1258:G:OP2	2.20	0.57
1:AA:1297:C:C6	13:AM:53:ASP:OD1	2.57	0.57
1:AA:1318:A:C2	17:AS:80:MET:SD	2.98	0.57
1:AA:1342:C:O3'	9:AI:139:LYS:CG	2.43	0.57
2:AT:111:PHE:HB2	2:AT:484:SER:C	2.24	0.57
2:AT:137:VAL:O	2:AT:481:MET:CB	2.51	0.57
2:AT:465:LYS:HE2	2:AT:511:LEU:HD12	1.87	0.57
4:AC:31:GLU:CG	4:AC:51:ALA:HB1	2.34	0.57
6:AE:157:THR:CG2	8:AH:129:TYR:CE1	2.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:26:ILE:HG23	8:AH:27:ARG:N	2.20	0.57
9:AI:51:LEU:CB	9:AI:58:LYS:HG3	2.32	0.57
9:AI:97:ASP:CB	9:AI:103:GLU:N	2.64	0.57
12:AL:101:GLU:HB2	12:AL:132:LEU:CD2	2.34	0.57
13:AM:84:TRP:CE3	13:AM:101:LEU:HD21	2.39	0.57
13:AM:112:ASP:O	13:AM:116:LEU:HD23	2.05	0.57
18:B3:52:A:N9	18:B3:121:U:O2	2.37	0.57
18:B3:138:U:H6	18:B3:140:G:N1	2.03	0.57
18:B3:195:C:H5'	31:BL:178:LYS:CG	2.34	0.57
18:B3:242:A:O3'	31:BL:2:ALA:CB	2.52	0.57
18:B3:269:G:C5'	18:B3:274:G:O2'	2.52	0.57
18:B3:402:U:O4'	31:BL:92:LYS:HB3	2.05	0.57
18:B3:446:G:OP2	40:BU:12:ARG:HB2	2.04	0.57
18:B3:449:A:H61	18:B3:1349:G:C5'	2.17	0.57
18:B3:518:G:C5'	18:B3:1338:U:HO2'	1.84	0.57
18:B3:616:U:C2'	42:B0:47:ARG:CD	2.78	0.57
18:B3:677:C:O4'	23:BD:229:VAL:O	2.22	0.57
18:B3:875:A:C2'	21:BB:203:MET:HE1	2.34	0.57
18:B3:1250:C:O2'	18:B3:1251:C:H5'	2.05	0.57
18:B3:1333:U:H2'	18:B3:1334:C:C6	2.40	0.57
18:B3:1876:C:O2'	21:BB:131:ASN:ND2	2.38	0.57
18:B3:2397:G:C8	41:BV:46:LYS:HE2	2.40	0.57
18:B3:2826:G:C2	22:BC:124:SER:CB	2.81	0.57
18:B3:2913:A:H61	22:BC:123:LYS:CE	2.18	0.57
19:B4:29:C:H2'	19:B4:30:C:C5'	2.34	0.57
20:BA:48:ARG:HA	20:BA:159:LEU:HD23	1.86	0.57
20:BA:205:VAL:HG12	20:BA:206:VAL:N	2.20	0.57
21:BB:194:SER:O	21:BB:195:TRP:HE3	1.88	0.57
21:BB:232:GLN:HG3	21:BB:233:LYS:N	2.19	0.57
21:BB:233:LYS:HD2	21:BB:234:ALA:CA	2.35	0.57
22:BC:49:LYS:HZ3	22:BC:50:ALA:HA	1.69	0.57
22:BC:85:VAL:O	22:BC:85:VAL:HG23	2.05	0.57
24:BE:47:PRO:HD2	24:BE:67:SER:O	2.05	0.57
25:BF:207:SER:HB2	25:BF:209:PRO:HD2	1.85	0.57
27:BH:12:VAL:CG2	27:BH:13:PRO:HA	2.34	0.57
28:BI:102:MET:O	28:BI:103:LEU:HD13	2.04	0.57
29:BJ:14:GLU:HG2	29:BJ:129:VAL:CG1	2.35	0.57
29:BJ:16:LEU:O	29:BJ:70:VAL:HG13	2.05	0.57
29:BJ:20:ILE:HG23	29:BJ:21:SER:O	2.04	0.57
29:BJ:91:ARG:HG2	29:BJ:163:LYS:HE2	1.87	0.57
29:BJ:91:ARG:HD2	29:BJ:91:ARG:C	2.25	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:63:VAL:HG12	31:BL:64:ARG:N	2.20	0.57
32:BM:14:LEU:CB	32:BM:17:ARG:HE	2.15	0.57
37:BR:64:LYS:C	37:BR:64:LYS:HE3	2.25	0.57
37:BR:78:VAL:HG13	37:BR:78:VAL:O	2.05	0.57
38:BS:45:ASN:O	38:BS:49:ILE:HD12	2.05	0.57
40:BU:31:LEU:CD1	40:BU:74:TYR:HB3	2.35	0.57
40:BU:60:ARG:CG	40:BU:61:GLY:H	2.18	0.57
40:BU:86:THR:OG1	40:BU:97:ILE:HG23	2.04	0.57
41:BV:121:PRO:HB3	41:BV:140:ALA:O	2.04	0.57
44:BX:44:ILE:HD12	44:BX:47:VAL:HG13	1.84	0.57
44:BX:49:LYS:NZ	44:BX:50:SER:HA	2.20	0.57
1:AA:59:A:C4'	1:AA:388:G:C2'	2.72	0.57
1:AA:411:A:C4	1:AA:413:G:H1'	2.40	0.57
1:AA:551:U:C4'	12:AL:107:PHE:CE2	2.84	0.57
1:AA:668:G:H4'	15:AO:106:LYS:HB2	1.87	0.57
1:AA:739:C:HO2'	15:AO:100:HIS:CE1	2.18	0.57
1:AA:1075:C:H5"	3:AB:102:THR:C	2.24	0.57
1:AA:1151:A:OP1	10:AJ:61:LYS:HD3	1.97	0.57
2:AT:464:LEU:CG	2:AT:510:ARG:HA	2.35	0.57
2:AT:465:LYS:CG	2:AT:515:ASP:H	2.17	0.57
4:AC:136:VAL:HB	4:AC:184:LYS:HB2	1.86	0.57
5:AD:60:LEU:HD21	5:AD:64:GLU:HG3	1.87	0.57
5:AD:99:LEU:HD23	5:AD:103:ASP:CA	2.34	0.57
5:AD:150:LEU:HD12	5:AD:150:LEU:N	2.19	0.57
6:AE:115:LYS:HE3	6:AE:130:ILE:HD13	1.87	0.57
9:AI:36:THR:HA	9:AI:39:GLU:OE2	2.05	0.57
9:AI:114:THR:HG22	9:AI:114:THR:O	2.05	0.57
11:AK:38:ILE:HG12	11:AK:39:ALA:H	1.70	0.57
18:B3:81:G:O3'	40:BU:74:TYR:C	2.40	0.57
18:B3:392:U:H5'	31:BL:195:THR:O	2.04	0.57
18:B3:624:U:OP1	41:BV:21:ILE:HG22	2.05	0.57
18:B3:762:C:H5	41:BV:23:LYS:HZ1	1.48	0.57
18:B3:817:G:HO2'	18:B3:818:A:H8	1.53	0.57
18:B3:1154:A:N3	18:B3:2786:G:N7	2.52	0.57
18:B3:1167:G:H2'	30:BK:114:ARG:NH1	2.20	0.57
18:B3:1286:A:OP1	25:BF:155:ILE:CA	2.50	0.57
18:B3:1300:G:C6	18:B3:1330:A:C6	2.92	0.57
18:B3:1343:C:C1'	23:BD:188:ALA:HA	2.33	0.57
18:B3:1349:G:H3'	23:BD:43:LYS:HB2	1.85	0.57
18:B3:1385:G:P	43:BW:36:LYS:CE	2.93	0.57
18:B3:1438:G:H21	18:B3:1685:A:H8	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1788:U:H2'	18:B3:2881:C:C2	2.38	0.57
18:B3:2166:G:C5	20:BA:60:ARG:C	2.78	0.57
18:B3:2214:A:C2	20:BA:106:LYS:HB2	2.32	0.57
18:B3:2348:C:N4	29:BJ:127:TYR:OH	2.35	0.57
18:B3:2494:G:H5"	28:BI:7:ARG:HD2	1.87	0.57
18:B3:2546:U:C2'	22:BC:235:LYS:HE3	2.33	0.57
18:B3:2559:C:C5'	18:B3:2799:A:H4'	2.35	0.57
18:B3:2821:C:OP1	22:BC:141:ALA:HB1	2.05	0.57
18:B3:2846:C:OP1	22:BC:176:HIS:CD2	2.58	0.57
20:BA:49:PHE:CE1	20:BA:51:GLY:HA3	2.40	0.57
20:BA:205:VAL:HG13	20:BA:214:PHE:C	2.25	0.57
21:BB:52:GLY:H	21:BB:53:ARG:NH2	2.02	0.57
21:BB:96:ASN:H	21:BB:99:ASN:ND2	2.03	0.57
22:BC:52:MET:HB2	22:BC:76:THR:CA	2.27	0.57
22:BC:212:GLU:O	22:BC:281:ILE:HG22	2.05	0.57
22:BC:254:TRP:CE3	22:BC:256:PRO:HD2	2.39	0.57
23:BD:61:ALA:HB3	23:BD:83:ARG:NH1	2.20	0.57
23:BD:133:LEU:HD21	23:BD:243:LEU:CB	2.34	0.57
26:BG:141:LEU:CD1	26:BG:142:ILE:HG23	2.34	0.57
26:BG:151:LEU:C	26:BG:151:LEU:HD12	2.25	0.57
28:BI:32:ARG:HG2	28:BI:33:ILE:H	1.69	0.57
28:BI:95:HIS:HB2	28:BI:128:ARG:NH2	2.19	0.57
28:BI:130:ASP:OD1	28:BI:131:ILE:HD12	2.05	0.57
29:BJ:132:ARG:HH21	29:BJ:133:PRO:HG3	1.70	0.57
30:BK:139:VAL:HG13	30:BK:141:CYS:N	2.20	0.57
32:BM:40:LEU:O	32:BM:40:LEU:HD23	2.05	0.57
33:BN:57:ILE:C	33:BN:80:ALA:HB1	2.25	0.57
34:BO:128:ALA:O	34:BO:130:ARG:HD3	2.04	0.57
36:BQ:20:ARG:NE	36:BQ:20:ARG:H	2.02	0.57
36:BQ:79:MET:HB2	36:BQ:83:ARG:O	2.05	0.57
37:BR:76:ALA:HB1	37:BR:101:VAL:O	2.05	0.57
43:BW:9:ARG:HH22	43:BW:72:LEU:CD1	2.13	0.57
47:B9:32:GLN:NE2	47:B9:68:TYR:HD2	2.03	0.57
1:AA:101:A:O2'	1:AA:102:G:H5'	2.05	0.56
1:AA:125:U:H5'	1:AA:291:C:C5'	2.32	0.56
1:AA:402:G:C1'	1:AA:621:A:C5	2.81	0.56
1:AA:1256:A:C4'	1:AA:1257:U:H5'	2.30	0.56
1:AA:1300:G:O3'	13:AM:30:TYR:CE1	2.48	0.56
1:AA:1505:G:C5	1:AA:1506:U:P	2.92	0.56
2:AT:137:VAL:C	18:B3:2697:A:H4'	2.23	0.56
2:AT:369:ILE:HD12	2:AT:401:PHE:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:82:ARG:HD3	5:AD:104:PHE:CD1	2.39	0.56
6:AE:85:VAL:O	6:AE:85:VAL:HG23	2.05	0.56
10:AJ:23:ARG:HB2	10:AJ:117:VAL:CG1	2.34	0.56
11:AK:40:ARG:HG3	11:AK:41:VAL:H	1.68	0.56
15:AO:73:ILE:HD13	15:AO:73:ILE:O	2.05	0.56
18:B3:53:C:O5'	18:B3:121:U:H2'	2.05	0.56
18:B3:165:A:H5'	41:BV:31:ARG:H	1.63	0.56
18:B3:1285:U:O5'	25:BF:155:ILE:HG21	2.04	0.56
18:B3:1315:G:N3	42:B0:107:VAL:HG21	2.20	0.56
18:B3:1787:C:O2	18:B3:2882:G:C2'	2.53	0.56
18:B3:2347:C:C5'	29:BJ:66:VAL:O	2.52	0.56
18:B3:2699:A:H2'	18:B3:2700:G:O4'	2.05	0.56
20:BA:108:ASN:OD1	20:BA:162:VAL:CB	2.53	0.56
21:BB:172:GLY:N	47:B9:67:ALA:HB2	2.19	0.56
22:BC:236:LYS:HB2	22:BC:237:LEU:HD23	1.87	0.56
22:BC:357:TRP:CB	38:BS:15:PRO:CB	2.66	0.56
23:BD:73:ILE:HB	23:BD:74:PRO:C	2.24	0.56
23:BD:139:HIS:NE2	23:BD:141:VAL:HG22	2.20	0.56
23:BD:150:VAL:HB	23:BD:251:GLU:CD	2.26	0.56
24:BE:24:ARG:CG	24:BE:25:GLU:H	2.18	0.56
25:BF:102:LEU:N	25:BF:105:LEU:HD23	2.20	0.56
25:BF:108:THR:O	25:BF:108:THR:HG23	2.05	0.56
25:BF:117:LYS:HE2	25:BF:118:VAL:O	2.05	0.56
25:BF:118:VAL:HG13	25:BF:118:VAL:O	2.05	0.56
26:BG:124:ALA:O	26:BG:126:PRO:HD2	2.05	0.56
26:BG:151:LEU:HD11	26:BG:185:LEU:CD2	2.35	0.56
27:BH:104:VAL:HG22	27:BH:105:GLU:N	2.20	0.56
27:BH:129:ARG:HG2	27:BH:156:GLN:HE22	1.70	0.56
34:BO:81:VAL:HG23	34:BO:101:VAL:HG21	1.86	0.56
42:B0:95:GLU:HG3	42:B0:120:THR:HG22	1.85	0.56
47:B9:48:ARG:HB3	47:B9:54:TRP:CE3	2.39	0.56
1:AA:265:G:H4'	16:AQ:130:ILE:C	2.26	0.56
1:AA:712:A:C2	11:AK:124:SER:O	2.58	0.56
1:AA:779:C:O4'	11:AK:132:ARG:CG	2.53	0.56
1:AA:994:A:C5	1:AA:1046:A:C4	2.79	0.56
1:AA:1340:A:H2'	9:AI:141:TYR:OH	2.05	0.56
2:AT:706:ILE:HB	2:AT:707:PRO:HD3	1.86	0.56
8:AH:80:VAL:HG11	8:AH:124:ILE:HD12	1.85	0.56
13:AM:100:THR:CG2	13:AM:105:VAL:HG22	2.33	0.56
18:B3:100:C:C2'	40:BU:24:SER:H	2.15	0.56
18:B3:124:C:C6	39:BT:88:LYS:HE3	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:194:A:H4'	31:BL:178:LYS:H	1.70	0.56
18:B3:433:C:H4'	31:BL:149:TRP:CD2	2.35	0.56
18:B3:1054:G:P	28:BI:110:ARG:NH2	2.72	0.56
18:B3:1067:A:H5'	25:BF:96:PRO:HD3	1.87	0.56
18:B3:1267:C:C4'	42:B0:61:LYS:NZ	2.55	0.56
18:B3:1311:G:C5	23:BD:185:LYS:CB	2.63	0.56
18:B3:1384:C:O2'	43:BW:50:LEU:HD11	2.05	0.56
18:B3:1396:C:O2'	35:BP:2:ASN:CB	2.53	0.56
18:B3:2338:G:P	29:BJ:122:PHE:N	2.59	0.56
18:B3:2734:G:OP1	35:BP:79:LYS:NZ	2.28	0.56
20:BA:116:LEU:O	20:BA:120:VAL:HG12	2.05	0.56
20:BA:123:LEU:HB2	20:BA:124:LEU:HD12	1.87	0.56
21:BB:47:ILE:HD12	47:B9:62:THR:CB	2.29	0.56
22:BC:40:VAL:HG13	22:BC:41:ALA:N	2.19	0.56
22:BC:76:THR:OG1	22:BC:326:CYS:HB2	2.05	0.56
22:BC:173:LYS:CE	22:BC:174:LYS:H	2.18	0.56
22:BC:199:GLU:O	22:BC:199:GLU:HG2	2.05	0.56
22:BC:274:ARG:NH2	22:BC:329:GLY:HA2	2.20	0.56
23:BD:221:VAL:CG1	23:BD:224:VAL:H	2.18	0.56
24:BE:35:ARG:HH22	24:BE:38:THR:HG21	1.70	0.56
24:BE:103:LEU:HD13	24:BE:104:LEU:CD2	2.35	0.56
25:BF:178:LEU:HD13	25:BF:182:ASP:HB2	1.87	0.56
26:BG:156:VAL:HG12	26:BG:157:ASP:N	2.20	0.56
27:BH:18:VAL:HG12	27:BH:19:SER:N	2.20	0.56
27:BH:57:VAL:CG1	32:BM:126:LEU:CD1	2.83	0.56
28:BI:48:LEU:HD12	28:BI:142:ASP:HA	1.87	0.56
38:BS:45:ASN:N	38:BS:48:ARG:HH21	2.03	0.56
40:BU:31:LEU:HD12	40:BU:74:TYR:CB	2.35	0.56
41:BV:134:GLU:O	41:BV:137:ILE:HB	2.04	0.56
47:B9:70:VAL:HG13	47:B9:71:SER:H	1.69	0.56
1:AA:190(F):G:N3	1:AA:265:G:P	2.78	0.56
1:AA:294:U:P	1:AA:610:G:C1'	2.91	0.56
1:AA:401:C:O2	1:AA:622:A:N3	2.36	0.56
1:AA:402:G:C4	1:AA:621:A:C2	2.94	0.56
1:AA:560:U:O4	1:AA:566:G:N7	2.27	0.56
1:AA:924:C:O2'	1:AA:1398:A:H3'	2.05	0.56
1:AA:976:G:OP2	1:AA:1358:U:H1'	2.06	0.56
1:AA:987:G:C4	1:AA:1014:A:N3	2.73	0.56
1:AA:987:G:C6	1:AA:1014:A:N3	2.73	0.56
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.41	0.56
1:AA:1118:C:H4'	9:AI:118:ALA:CB	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.40	0.56
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.41	0.56
1:AA:1299:A:C4'	13:AM:27:LYS:H	2.17	0.56
1:AA:1343:G:H5'	9:AI:137:PHE:C	2.18	0.56
1:AA:1372:U:C4'	9:AI:74:VAL:HG21	2.25	0.56
1:AA:1503:A:HO2'	1:AA:1507:A:P	2.26	0.56
3:AB:26:ARG:HB2	3:AB:44:VAL:CG1	2.18	0.56
3:AB:55:LYS:HB3	3:AB:158:ALA:O	2.05	0.56
3:AB:70:GLU:HG2	3:AB:118:ARG:HG3	1.84	0.56
4:AC:10:LEU:HD23	4:AC:11:VAL:N	2.15	0.56
4:AC:11:VAL:HG13	4:AC:12:ALA:N	2.19	0.56
4:AC:67:GLU:HG2	4:AC:71:LEU:CD1	2.35	0.56
4:AC:76:PHE:CE2	4:AC:83:ILE:HD11	2.39	0.56
4:AC:98:VAL:HG23	4:AC:99:ALA:N	2.20	0.56
5:AD:99:LEU:O	5:AD:106:GLU:HB2	2.05	0.56
5:AD:100:LYS:HD2	5:AD:191:ALA:HB3	1.85	0.56
6:AE:153:LEU:CD2	8:AH:97:GLN:CA	2.84	0.56
8:AH:45:TYR:CE2	8:AH:100:TYR:CE2	2.94	0.56
8:AH:125:LEU:HD12	8:AH:125:LEU:N	2.20	0.56
9:AI:101:LYS:CA	9:AI:105:LYS:HB2	2.36	0.56
11:AK:47:VAL:CG1	11:AK:52:ASP:HA	2.35	0.56
12:AL:55:GLU:HG3	12:AL:57:LEU:HG	1.86	0.56
12:AL:127:VAL:HG13	12:AL:144:ARG:O	2.05	0.56
13:AM:26:ILE:CA	13:AM:57:ARG:HD3	2.35	0.56
13:AM:86:LEU:HD12	13:AM:88:ARG:H	1.70	0.56
17:AS:64:LYS:O	17:AS:68:PRO:HD2	2.06	0.56
18:B3:37:A:H2'	18:B3:38:G:H8	1.70	0.56
18:B3:111:C:H4'	18:B3:118:G:O6	2.05	0.56
18:B3:449:A:C4'	18:B3:1306:U:N1	2.54	0.56
18:B3:501:G:O3'	33:BN:15:SER:N	2.36	0.56
18:B3:502:A:H5"	33:BN:10:PRO:HB3	1.88	0.56
18:B3:677:C:P	23:BD:233:ASN:HA	2.36	0.56
18:B3:677:C:C1'	23:BD:229:VAL:O	2.52	0.56
18:B3:1181:A:H4'	30:BK:109:ILE:HG12	1.79	0.56
18:B3:1183:C:C1'	30:BK:104:ILE:HA	2.35	0.56
18:B3:1241:G:H21	32:BM:86:MET:CG	2.18	0.56
18:B3:1304:U:H2'	18:B3:1305:C:C6	2.40	0.56
18:B3:1522:A:O2'	18:B3:1523:G:H5'	2.05	0.56
18:B3:1579:C:H2'	18:B3:1580:A:H8	1.68	0.56
18:B3:1733:A:O2'	22:BC:226:GLU:C	2.43	0.56
18:B3:1760:G:N2	35:BP:78:GLY:HA2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2157:G:H4'	18:B3:2158:A:OP1	2.05	0.56
18:B3:2166:G:H3'	20:BA:60:ARG:HB3	1.87	0.56
18:B3:2273:C:OP1	21:BB:1:GLY:HA3	2.05	0.56
18:B3:2336:G:C5'	29:BJ:101:PHE:CZ	2.87	0.56
18:B3:2561:C:H5'	18:B3:2777:G:O3'	2.04	0.56
18:B3:2709:G:H4'	37:BR:9:THR:N	1.99	0.56
18:B3:2814:A:OP2	18:B3:2814:A:H3'	2.05	0.56
19:B4:11:A:C6	24:BE:16:PHE:N	2.69	0.56
20:BA:97:LYS:HA	20:BA:100:ILE:HG22	1.85	0.56
20:BA:106:LYS:HG2	20:BA:107:TYR:CE1	2.40	0.56
21:BB:47:ILE:HG22	21:BB:58:ALA:CA	2.35	0.56
21:BB:149:LEU:HB3	21:BB:150:PRO:CD	2.35	0.56
22:BC:46:LEU:HD23	22:BC:336:THR:CB	2.35	0.56
22:BC:76:THR:HG23	22:BC:326:CYS:CB	2.35	0.56
22:BC:237:LEU:HB3	22:BC:238:PRO:CA	2.24	0.56
22:BC:246:ARG:HH11	22:BC:248:VAL:HG22	1.69	0.56
22:BC:284:VAL:HG12	22:BC:285:GLY:N	2.19	0.56
22:BC:341:LEU:HD12	22:BC:344:ASN:HD22	1.70	0.56
23:BD:235:LEU:O	23:BD:239:PRO:HA	2.05	0.56
23:BD:251:GLU:OE1	23:BD:251:GLU:HA	1.95	0.56
24:BE:51:LEU:HB2	24:BE:144:VAL:CG1	2.35	0.56
24:BE:103:LEU:HD13	24:BE:103:LEU:C	2.25	0.56
24:BE:113:LEU:HD22	24:BE:113:LEU:C	2.25	0.56
26:BG:149:LEU:CD2	26:BG:210:LEU:HD11	2.31	0.56
27:BH:7:GLU:CG	27:BH:8:GLN:H	2.16	0.56
27:BH:168:ARG:HG2	27:BH:168:ARG:O	2.06	0.56
28:BI:104:SER:HA	28:BI:116:ARG:C	2.26	0.56
29:BJ:30:THR:HG23	29:BJ:30:THR:O	2.05	0.56
29:BJ:31:ARG:HE	29:BJ:34:LYS:CE	2.16	0.56
29:BJ:48:LYS:HG2	29:BJ:49:ALA:N	2.19	0.56
29:BJ:71:ARG:NH1	29:BJ:71:ARG:H	2.03	0.56
30:BK:16:ARG:HA	30:BK:59:THR:HA	1.87	0.56
30:BK:29:ALA:CB	30:BK:30:PRO:HD3	2.35	0.56
30:BK:41:LYS:HG3	30:BK:42:VAL:N	2.19	0.56
31:BL:60:ILE:HD13	31:BL:60:ILE:N	2.19	0.56
31:BL:97:LEU:O	31:BL:98:ARG:HG3	2.05	0.56
31:BL:186:ARG:HG3	31:BL:187:ARG:HH12	1.68	0.56
32:BM:38:GLU:O	32:BM:40:LEU:HD22	2.05	0.56
32:BM:83:LEU:O	32:BM:87:VAL:HG13	2.05	0.56
32:BM:90:LYS:HG2	32:BM:91:THR:N	2.20	0.56
33:BN:124:GLN:C	33:BN:139:GLU:HG2	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:134:ARG:CD	33:BN:135:ILE:H	2.15	0.56
34:BO:129:VAL:HG13	34:BO:129:VAL:O	2.04	0.56
35:BP:7:LYS:CE	35:BP:8:ARG:HH11	2.18	0.56
35:BP:95:ILE:HG12	35:BP:95:ILE:O	2.05	0.56
38:BS:51:TRP:CZ3	38:BS:56:ARG:HG2	2.40	0.56
39:BT:113:VAL:O	39:BT:114:ARG:HG2	2.06	0.56
40:BU:33:ALA:HB2	40:BU:104:LEU:CD2	2.29	0.56
40:BU:35:LEU:HB3	40:BU:39:LEU:HB3	1.86	0.56
40:BU:48:LEU:HD12	40:BU:106:ILE:HD12	1.87	0.56
40:BU:48:LEU:HD13	40:BU:109:LEU:CD1	2.34	0.56
40:BU:70:ILE:CG1	40:BU:80:VAL:HG21	2.36	0.56
40:BU:89:LYS:HD2	40:BU:89:LYS:O	2.06	0.56
41:BV:104:LEU:N	41:BV:104:LEU:HD22	2.20	0.56
41:BV:143:VAL:HG22	41:BV:144:VAL:N	2.16	0.56
42:B0:63:THR:HG22	42:B0:63:THR:O	2.05	0.56
44:BX:24:LEU:O	44:BX:25:LYS:HE2	2.04	0.56
46:BZ:8:LYS:CG	46:BZ:9:THR:H	2.16	0.56
46:BZ:37:GLN:HA	46:BZ:40:ARG:NE	2.19	0.56
46:BZ:62:LYS:HD2	46:BZ:64:THR:OG1	2.05	0.56
47:B9:55:THR:HG21	47:B9:62:THR:N	2.21	0.56
1:AA:33:A:C5'	1:AA:365:U:H5'	2.36	0.56
1:AA:190(E):U:O4	16:AQ:134:VAL:N	2.22	0.56
1:AA:438:G:C4'	1:AA:439:A:OP1	2.53	0.56
1:AA:562:C:O2	12:AL:31:LYS:C	2.25	0.56
1:AA:597:G:H5'	16:AQ:99:TYR:CD2	2.40	0.56
1:AA:620:C:O4'	5:AD:129:ILE:HG21	2.06	0.56
1:AA:877:C:C2'	8:AH:3:SER:HB3	2.35	0.56
1:AA:915:A:C2'	1:AA:916:G:H5'	2.35	0.56
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.41	0.56
1:AA:1314:C:C4	17:AS:49:MET:C	2.79	0.56
4:AC:134:GLU:HB3	4:AC:156:LEU:HD21	1.86	0.56
5:AD:91:LYS:O	6:AE:174:GLY:CA	2.43	0.56
7:AG:167:VAL:HG23	7:AG:168:ASN:N	2.20	0.56
9:AI:98:GLU:CA	9:AI:106:LYS:H	2.19	0.56
9:AI:100:SER:N	9:AI:105:LYS:CA	2.68	0.56
10:AJ:61:LYS:CE	10:AJ:86:ILE:HB	2.35	0.56
16:AQ:124:VAL:HG22	16:AQ:136:PHE:HD2	1.70	0.56
16:AQ:133:THR:HG22	16:AQ:133:THR:O	2.06	0.56
17:AS:90:ILE:CD1	17:AS:112:LEU:HD11	2.36	0.56
18:B3:677:C:C4'	23:BD:256:LYS:CD	2.69	0.56
18:B3:783:C:H5"	21:BB:18:HIS:HE1	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1011:C:O5'	24:BE:15:ARG:NH1	2.38	0.56
18:B3:1103:C:H1'	32:BM:86:MET:HG2	1.86	0.56
18:B3:1173:A:P	30:BK:40:LYS:HZ1	2.28	0.56
18:B3:1235:G:C5	32:BM:69:PRO:CD	2.88	0.56
18:B3:2081:A:C2'	32:BM:69:PRO:CB	2.66	0.56
18:B3:2101:A:H5'	23:BD:66:THR:HA	1.86	0.56
18:B3:2166:G:C5	20:BA:61:PRO:CD	2.86	0.56
19:B4:59:C:H2'	19:B4:60:C:C6	2.40	0.56
20:BA:50:SER:HG	20:BA:154:THR:HG21	1.67	0.56
20:BA:54:LYS:CE	20:BA:153:SER:HB2	2.36	0.56
20:BA:97:LYS:O	20:BA:101:LYS:HG3	2.06	0.56
22:BC:18:ARG:HA	22:BC:18:ARG:NE	2.16	0.56
22:BC:49:LYS:HE3	22:BC:332:LYS:CA	2.32	0.56
22:BC:49:LYS:HG2	22:BC:331:ARG:O	2.06	0.56
22:BC:81:PRO:HD3	22:BC:204:VAL:CG1	2.34	0.56
22:BC:112:GLU:HG2	22:BC:173:LYS:HA	1.88	0.56
22:BC:243:ARG:HD3	22:BC:243:ARG:N	2.20	0.56
23:BD:208:TYR:HA	23:BD:248:ILE:CG2	2.35	0.56
24:BE:99:TYR:CE1	24:BE:161:GLY:CA	2.88	0.56
27:BH:41:ILE:O	32:BM:126:LEU:CA	2.51	0.56
27:BH:92:TYR:O	27:BH:93:VAL:HG23	2.06	0.56
27:BH:118:LEU:N	27:BH:118:LEU:HD22	2.20	0.56
28:BI:40:LYS:HG2	28:BI:41:ALA:H	1.69	0.56
28:BI:91:VAL:HG22	28:BI:92:HIS:N	2.21	0.56
28:BI:97:LEU:C	28:BI:97:LEU:HD12	2.25	0.56
30:BK:48:LYS:HE3	30:BK:107:ASP:OD2	2.05	0.56
31:BL:71:LYS:HD2	31:BL:71:LYS:O	2.06	0.56
35:BP:17:GLY:H	35:BP:20:LYS:NZ	2.02	0.56
35:BP:41:ARG:CZ	35:BP:49:ILE:HG21	2.35	0.56
36:BQ:27:LEU:HD12	36:BQ:27:LEU:N	2.20	0.56
36:BQ:75:ILE:HG13	36:BQ:76:ILE:N	2.20	0.56
37:BR:9:THR:HG23	37:BR:10:LYS:N	2.21	0.56
42:B0:27:ARG:HH22	42:B0:28:VAL:HA	1.69	0.56
43:BW:59:TRP:CZ3	43:BW:66:VAL:HA	2.40	0.56
47:B9:44:LYS:HD2	47:B9:44:LYS:C	2.24	0.56
1:AA:319:G:H1'	1:AA:1434:A:H61	1.71	0.56
1:AA:642:A:O2'	8:AH:104:THR:HG21	2.06	0.56
1:AA:877:C:N1	8:AH:3:SER:OG	2.38	0.56
1:AA:920:U:C5'	1:AA:1080:A:C1'	2.71	0.56
1:AA:920:U:C5'	1:AA:1080:A:C8	2.86	0.56
1:AA:958:A:C5	17:AS:101:ALA:HB3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1094:G:H5”	1:AA:1095:U:H5	1.71	0.56
1:AA:1175:G:H2’	9:AI:108:PHE:HB2	1.87	0.56
1:AA:1286:A:C8	1:AA:1287:A:H5”	2.40	0.56
1:AA:1290:G:H5’	7:AG:108:LYS:NZ	2.20	0.56
3:AB:146:THR:O	3:AB:160:PRO:HA	2.05	0.56
4:AC:85:LEU:HD13	4:AC:85:LEU:O	2.06	0.56
7:AG:202:LYS:H	7:AG:204:SER:C	2.09	0.56
9:AI:12:LYS:HD3	9:AI:78:TYR:CG	2.41	0.56
13:AM:89:GLN:OE1	13:AM:111:ASP:CG	2.43	0.56
13:AM:124:GLY:HA2	13:AM:127:HIS:HD2	1.70	0.56
18:B3:281:U:O2’	18:B3:282:C:H5’	2.05	0.56
18:B3:906:C:O2	18:B3:1329:A:C8	2.55	0.56
18:B3:1056:U:H3’	28:BI:109:ASP:CB	2.36	0.56
18:B3:1285:U:C3’	25:BF:155:ILE:HG21	2.26	0.56
18:B3:1562:C:H3’	18:B3:1563:G:C8	2.40	0.56
18:B3:2047:C:O2’	18:B3:2841:A:H1’	2.06	0.56
18:B3:2101:A:N7	23:BD:71:ALA:CB	2.69	0.56
18:B3:2654:C:H4’	22:BC:261:TRP:H	1.68	0.56
20:BA:120:VAL:HG13	20:BA:121:PRO:CD	2.21	0.56
21:BB:43:ILE:HG13	21:BB:61:VAL:HG12	1.88	0.56
22:BC:55:ILE:HG12	22:BC:56:VAL:O	2.05	0.56
23:BD:133:LEU:HD12	23:BD:137:ARG:NH2	2.17	0.56
24:BE:103:LEU:HD21	24:BE:226:TYR:CZ	2.40	0.56
26:BG:125:SER:H	26:BG:128:PRO:CD	2.18	0.56
27:BH:44:THR:OG1	27:BH:55:VAL:HB	2.06	0.56
27:BH:92:TYR:CA	27:BH:179:ILE:HG22	2.36	0.56
27:BH:150:SER:HB2	27:BH:152:GLU:HG2	1.86	0.56
31:BL:22:GLN:C	31:BL:25:ARG:HG3	2.25	0.56
31:BL:60:ILE:HG22	31:BL:132:ILE:CG1	2.36	0.56
31:BL:150:ILE:HD13	31:BL:150:ILE:N	2.19	0.56
33:BN:109:THR:HG22	33:BN:110:LYS:H	1.71	0.56
34:BO:104:LEU:HD23	34:BO:105:ARG:N	2.17	0.56
34:BO:124:LEU:HG	34:BO:124:LEU:O	2.05	0.56
34:BO:130:ARG:CZ	34:BO:132:PRO:HB3	2.35	0.56
35:BP:40:ILE:HG22	35:BP:41:ARG:CZ	2.36	0.56
39:BT:61:VAL:HA	39:BT:86:SER:OG	2.05	0.56
40:BU:33:ALA:CB	40:BU:104:LEU:HD21	2.30	0.56
41:BV:118:PRO:HG2	41:BV:140:ALA:HB3	1.84	0.56
42:B0:89:THR:C	42:B0:90:LYS:HG2	2.26	0.56
42:B0:100:ILE:H	42:B0:100:ILE:CD1	2.14	0.56
43:BW:27:ARG:HB3	43:BW:66:VAL:HG22	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:54:LYS:CB	46:BZ:55:PRO:HD3	2.35	0.56
46:BZ:71:LEU:O	46:BZ:79:ARG:HD3	2.05	0.56
47:B9:28:LEU:O	47:B9:29:GLU:HG2	2.06	0.56
47:B9:28:LEU:CD1	47:B9:29:GLU:H	2.17	0.56
47:B9:36:TYR:HB2	47:B9:46:VAL:CG1	2.20	0.56
1:AA:66:G:N1	1:AA:69:G:N1	2.54	0.56
1:AA:125:U:H5"	1:AA:291:C:H4'	1.76	0.56
1:AA:404:U:N3	5:AD:36:LEU:HD13	2.19	0.56
1:AA:425:G:O2'	1:AA:426:G:H5'	2.05	0.56
1:AA:505:G:H2'	1:AA:506:G:H8	1.70	0.56
1:AA:1067:A:H5"	1:AA:1387:G:H4'	1.87	0.56
1:AA:1376:U:H2'	7:AG:76:TYR:HB2	1.88	0.56
1:AA:1503:A:O2'	1:AA:1507:A:P	2.63	0.56
2:AT:108:HIS:ND1	2:AT:540:ILE:HG12	2.12	0.56
5:AD:97:LEU:O	5:AD:97:LEU:HD23	2.05	0.56
8:AH:69:ASN:HD22	8:AH:70:LYS:HG2	1.71	0.56
9:AI:98:GLU:N	9:AI:103:GLU:C	2.59	0.56
10:AJ:97:VAL:HG13	10:AJ:98:GLN:N	2.20	0.56
12:AL:76:LEU:CD2	12:AL:83:VAL:HG22	2.27	0.56
18:B3:263:U:O4'	26:BG:161:LEU:CD1	2.53	0.56
18:B3:541:C:H5"	42:B0:14:THR:CG2	2.35	0.56
18:B3:598:C:H2'	18:B3:599:G:H8	1.70	0.56
18:B3:706:G:N2	34:BO:72:LYS:CE	2.68	0.56
18:B3:890:C:O2	45:BY:48:TRP:CA	2.53	0.56
18:B3:1164:U:C1'	30:BK:51:LYS:CB	2.73	0.56
18:B3:1305:C:C2'	23:BD:194:ARG:HH21	2.11	0.56
18:B3:1310:U:C4	23:BD:181:LEU:CD1	2.88	0.56
18:B3:1556:G:O2'	18:B3:1557:G:H5'	2.05	0.56
18:B3:1785:G:H4'	18:B3:2733:U:H5"	1.87	0.56
18:B3:2672:C:C5'	22:BC:31:PHE:CZ	2.82	0.56
18:B3:2780:C:H5"	27:BH:162:GLN:HE21	1.69	0.56
18:B3:2861:G:O2'	22:BC:364:PHE:HE1	1.88	0.56
19:B4:30:C:N4	24:BE:57:ASN:HA	2.20	0.56
20:BA:10:ARG:O	20:BA:14:LYS:HG3	2.06	0.56
20:BA:34:LEU:HD13	20:BA:35:GLN:N	2.21	0.56
20:BA:215:ARG:HB3	20:BA:215:ARG:NH1	2.20	0.56
21:BB:113:SER:H	21:BB:164:VAL:CG2	2.18	0.56
21:BB:176:LYS:HA	21:BB:176:LYS:HZ2	1.70	0.56
21:BB:226:ARG:HD2	21:BB:227:GLY:N	2.21	0.56
22:BC:114:LYS:CB	22:BC:119:LYS:HE2	2.36	0.56
22:BC:161:VAL:CG2	22:BC:177:LEU:HB3	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:213:MET:O	22:BC:214:ILE:HD13	2.05	0.56
22:BC:341:LEU:HD12	22:BC:344:ASN:ND2	2.21	0.56
23:BD:257:LEU:HG	23:BD:257:LEU:O	2.06	0.56
26:BG:162:VAL:HG13	26:BG:162:VAL:O	2.06	0.56
27:BH:11:GLU:O	27:BH:12:VAL:HB	2.05	0.56
28:BI:56:GLU:O	28:BI:131:ILE:HA	2.06	0.56
29:BJ:165:LYS:HD2	29:BJ:165:LYS:N	2.19	0.56
30:BK:93:LYS:CE	30:BK:96:LYS:HB2	2.36	0.56
31:BL:135:ASP:O	31:BL:141:ILE:HG13	2.06	0.56
32:BM:5:VAL:HG12	32:BM:32:ILE:N	2.21	0.56
33:BN:9:ASN:ND2	33:BN:11:ALA:HB3	2.20	0.56
33:BN:30:GLU:HG2	33:BN:81:ARG:NH2	2.21	0.56
33:BN:35:ILE:HG12	33:BN:35:ILE:O	2.05	0.56
33:BN:76:GLY:O	33:BN:77:VAL:HG13	2.06	0.56
33:BN:94:LEU:C	33:BN:94:LEU:HD22	2.26	0.56
33:BN:134:ARG:HA	33:BN:134:ARG:NE	2.14	0.56
35:BP:102:ARG:NH2	35:BP:103:ARG:HB2	2.21	0.56
36:BQ:64:VAL:HG23	36:BQ:74:VAL:HG22	1.88	0.56
42:B0:106:VAL:HA	42:B0:109:LEU:CB	2.33	0.56
43:BW:13:ILE:CD1	43:BW:68:TYR:HA	2.32	0.56
43:BW:36:LYS:O	43:BW:40:LYS:HD3	2.04	0.56
1:AA:125:U:P	1:AA:310:G:N2	2.79	0.56
1:AA:254:G:H5'	16:AQ:79:MET:HE1	1.86	0.56
1:AA:551:U:H2'	1:AA:552:U:C6	2.41	0.56
1:AA:597:G:H4'	16:AQ:99:TYR:HB2	1.87	0.56
1:AA:779:C:O4'	11:AK:132:ARG:O	2.24	0.56
1:AA:1300:G:H4'	13:AM:30:TYR:HD1	1.48	0.56
11:AK:23:ASN:O	11:AK:53:GLU:HB3	2.05	0.56
13:AM:126:ARG:NH1	17:AS:121:ILE:HG12	2.16	0.56
18:B3:82:C:O2'	40:BU:75:ARG:NH1	2.39	0.56
18:B3:303:C:O2'	18:B3:304:G:H5'	2.06	0.56
18:B3:618:G:C5'	42:B0:44:ARG:O	2.54	0.56
18:B3:710:G:OP1	34:BO:43:PRO:N	2.39	0.56
18:B3:1116:U:O5'	18:B3:1225:C:C2	2.58	0.56
18:B3:1118:A:O5'	18:B3:1228:C:C5	2.58	0.56
18:B3:1210:G:O2'	18:B3:1211:G:H5'	2.06	0.56
18:B3:1641:A:C2'	18:B3:1642:A:H5'	2.35	0.56
19:B4:49:G:OP2	24:BE:158:ARG:CA	2.53	0.56
19:B4:117:G:C2	24:BE:69:ILE:O	2.59	0.56
20:BA:98:LYS:O	20:BA:102:LYS:HD3	2.06	0.56
21:BB:106:VAL:HG21	21:BB:110:THR:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:12:HIS:CE1	22:BC:15:PHE:HE1	2.24	0.56
22:BC:313:TYR:CE2	22:BC:333:ARG:HG2	2.41	0.56
24:BE:83:LEU:CD1	24:BE:104:LEU:HD13	2.36	0.56
24:BE:116:ASP:HB2	24:BE:143:LYS:N	2.20	0.56
26:BG:121:LYS:C	26:BG:121:LYS:HD2	2.26	0.56
27:BH:112:ILE:O	27:BH:125:ASN:HB3	2.06	0.56
28:BI:47:PRO:HG2	28:BI:141:LYS:CB	2.35	0.56
28:BI:105:CYS:HB2	28:BI:111:LEU:HB3	1.87	0.56
29:BJ:44:PRO:CG	29:BJ:68:VAL:H	2.19	0.56
29:BJ:44:PRO:C	29:BJ:67:HIS:HB3	2.26	0.56
31:BL:21:LEU:HD12	31:BL:21:LEU:C	2.26	0.56
31:BL:154:VAL:HG12	31:BL:154:VAL:O	2.05	0.56
31:BL:183:LYS:HE2	31:BL:183:LYS:CA	2.28	0.56
35:BP:10:ALA:HB1	35:BP:22:TRP:CH2	2.41	0.56
35:BP:42:LYS:HZ2	35:BP:42:LYS:HB3	1.70	0.56
35:BP:94:TRP:CE3	35:BP:95:ILE:HG23	2.40	0.56
37:BR:28:ASN:CA	37:BR:102:ILE:HD12	2.36	0.56
37:BR:128:ARG:O	37:BR:131:SER:HB3	2.05	0.56
39:BT:66:ILE:HG13	39:BT:120:LYS:HZ2	1.71	0.56
40:BU:57:LEU:HD12	40:BU:57:LEU:C	2.26	0.56
40:BU:100:HIS:CB	40:BU:101:PRO:HA	2.35	0.56
41:BV:82:PRO:HD3	41:BV:120:VAL:CB	2.35	0.56
43:BW:27:ARG:HG3	43:BW:64:LYS:O	2.06	0.56
45:BY:2:LYS:HD3	45:BY:3:GLY:H	1.66	0.56
46:BZ:1:VAL:HG12	46:BZ:2:ASN:N	2.19	0.56
46:BZ:74:VAL:O	46:BZ:75:LYS:HB2	2.06	0.56
1:AA:60:A:P	1:AA:388:G:H2'	2.39	0.56
1:AA:190(F):G:C4	1:AA:265:G:OP1	2.59	0.56
1:AA:739:C:O2	15:AO:100:HIS:HE1	1.88	0.56
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.41	0.56
1:AA:1301:U:H5"	13:AM:29:VAL:O	2.06	0.56
1:AA:1319:A:N7	17:AS:49:MET:CE	2.60	0.56
5:AD:190:GLU:O	5:AD:190:GLU:HG2	2.06	0.56
6:AE:156:LYS:HD3	8:AH:95:ALA:CB	2.36	0.56
8:AH:36:PHE:HE1	8:AH:102:ILE:CG2	2.15	0.56
18:B3:26:U:C2	18:B3:1320:U:C1'	2.74	0.56
18:B3:35:U:O3'	23:BD:48:ALA:HB3	2.06	0.56
18:B3:302:A:OP1	40:BU:28:ARG:CZ	2.52	0.56
18:B3:471:G:O2'	45:BY:34:SER:OG	1.88	0.56
18:B3:795:G:C2'	18:B3:817:G:H22	2.08	0.56
18:B3:903:U:C4	41:BV:15:SER:N	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:953:G:H5'	36:BQ:13:TYR:HD2	1.67	0.56
18:B3:1285:U:H3'	25:BF:155:ILE:HG23	1.82	0.56
18:B3:1336:U:OP2	42:B0:100:ILE:HD11	2.04	0.56
18:B3:1371:U:H5"	33:BN:66:ILE:HD13	1.79	0.56
18:B3:1708:C:H5	35:BP:81:LYS:HB2	1.71	0.56
18:B3:1743:G:H21	37:BR:18:PRO:CD	2.18	0.56
18:B3:1872:C:H5	21:BB:19:THR:OG1	1.88	0.56
18:B3:2093:G:HO2'	22:BC:253:ALA:CA	1.89	0.56
18:B3:2346:C:O4'	29:BJ:64:ILE:O	2.24	0.56
18:B3:2501:G:C2	28:BI:157:TYR:CE1	2.93	0.56
18:B3:2656:G:HO2'	22:BC:268:GLN:NE2	2.03	0.56
21:BB:53:ARG:NH1	21:BB:54:GLY:HA2	2.21	0.56
21:BB:162:ARG:HD2	21:BB:163:GLY:N	2.20	0.56
22:BC:39:PRO:HD3	22:BC:190:LYS:CD	2.36	0.56
22:BC:70:GLU:OE2	37:BR:87:ARG:C	2.42	0.56
22:BC:94:THR:CB	22:BC:95:PRO:HA	2.30	0.56
23:BD:161:THR:HG22	23:BD:217:ALA:C	2.26	0.56
26:BG:115:VAL:HG13	26:BG:116:ALA:N	2.20	0.56
26:BG:151:LEU:HD12	26:BG:152:ILE:N	2.20	0.56
26:BG:203:ARG:CZ	26:BG:207:GLU:HA	2.36	0.56
28:BI:35:ASP:HA	28:BI:88:ARG:HH12	1.70	0.56
31:BL:117:SER:O	31:BL:129:PHE:HE1	1.89	0.56
31:BL:141:ILE:C	31:BL:141:ILE:HD13	2.26	0.56
31:BL:156:LYS:HE3	31:BL:157:HIS:HD1	1.71	0.56
32:BM:123:LEU:HD13	32:BM:123:LEU:N	2.17	0.56
32:BM:138:GLY:C	32:BM:142:THR:HG23	2.26	0.56
33:BN:28:THR:CA	33:BN:31:THR:HG22	2.36	0.56
33:BN:66:ILE:CB	33:BN:79:LYS:HD2	2.35	0.56
33:BN:113:VAL:HG13	33:BN:113:VAL:O	2.06	0.56
37:BR:71:LYS:HG2	37:BR:72:LYS:H	1.71	0.56
39:BT:86:SER:HB2	39:BT:89:ALA:HB2	1.86	0.56
39:BT:91:LYS:HB2	39:BT:109:VAL:HG13	1.86	0.56
40:BU:86:THR:HG21	40:BU:97:ILE:CG1	2.35	0.56
41:BV:136:LYS:HD2	41:BV:136:LYS:N	2.20	0.56
43:BW:76:ARG:HG2	43:BW:77:LYS:N	2.21	0.56
43:BW:80:GLU:OE1	43:BW:80:GLU:HA	2.06	0.56
1:AA:25:C:P	12:AL:39:LYS:CG	2.91	0.56
1:AA:119:A:N1	1:AA:239:U:O5'	2.31	0.56
1:AA:121:C:C4	1:AA:235:C:N3	2.74	0.56
1:AA:545:C:OP2	5:AD:30:LEU:CD1	2.54	0.56
1:AA:1177:G:N7	9:AI:106:LYS:HD2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1340:A:HO2'	1:AA:1341:U:H5'	1.65	0.56
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.06	0.56
3:AB:154:PHE:CE2	8:AH:19:THR:O	2.59	0.56
5:AD:28:LEU:HG	5:AD:42:ILE:O	2.05	0.56
5:AD:69:ARG:NH1	5:AD:76:LEU:HD11	2.21	0.56
5:AD:86:LEU:HD12	5:AD:96:VAL:HG13	1.86	0.56
5:AD:95:TYR:HB2	5:AD:193:GLU:HB3	1.87	0.56
5:AD:99:LEU:HD21	5:AD:107:ARG:HB2	1.88	0.56
8:AH:35:LYS:C	8:AH:109:ILE:HD11	2.25	0.56
8:AH:91:ASN:O	8:AH:94:PRO:HD3	2.05	0.56
8:AH:100:TYR:HB2	8:AH:111:ASP:CG	2.26	0.56
14:AN:23:CYS:SG	14:AN:37:ILE:HG13	2.46	0.56
15:AO:90:LEU:HB3	15:AO:121:ILE:CG1	2.36	0.56
18:B3:194:A:O3'	31:BL:178:LYS:C	2.43	0.56
18:B3:501:G:O5'	33:BN:16:ALA:HA	2.02	0.56
18:B3:771:G:H22	45:BY:48:TRP:HA	1.71	0.56
18:B3:1014:A:H2'	18:B3:1015:C:H5'	1.88	0.56
18:B3:1067:A:O3'	25:BF:93:LYS:O	2.23	0.56
18:B3:1072:G:O2'	18:B3:1073:A:H8	1.89	0.56
18:B3:1180:C:N1	30:BK:110:ILE:HD11	2.21	0.56
18:B3:1310:U:C4	23:BD:201:ARG:HB3	2.35	0.56
18:B3:1380:U:C3'	43:BW:25:LYS:HZ1	1.97	0.56
18:B3:1586:G:O2'	18:B3:1587:U:H5'	2.06	0.56
18:B3:1804:A:H2'	18:B3:1805:G:H8	1.71	0.56
18:B3:2151:G:O2'	18:B3:2161:G:H5'	2.06	0.56
18:B3:2561:C:C4'	18:B3:2777:G:O3'	2.53	0.56
18:B3:2579:G:OP1	18:B3:2680:A:O5'	2.24	0.56
18:B3:2663:U:C6	18:B3:2816:A:C6	2.93	0.56
18:B3:2806:C:H5"	22:BC:343:THR:CA	2.36	0.56
19:B4:29:C:N4	24:BE:57:ASN:ND2	2.54	0.56
19:B4:119:C:H1'	24:BE:72:ASP:N	2.21	0.56
20:BA:67:ILE:HG22	20:BA:83:ASP:O	2.06	0.56
20:BA:108:ASN:CG	20:BA:162:VAL:CB	2.68	0.56
21:BB:101:LEU:HD13	21:BB:101:LEU:C	2.27	0.56
21:BB:137:GLY:CA	21:BB:146:ARG:HG2	2.36	0.56
21:BB:178:LEU:HG	21:BB:178:LEU:O	2.06	0.56
22:BC:17:PRO:CG	22:BC:19:LYS:HD2	2.36	0.56
22:BC:207:VAL:O	22:BC:207:VAL:HG13	2.06	0.56
22:BC:327:ILE:HG22	22:BC:329:GLY:H	1.70	0.56
22:BC:358:ILE:C	38:BS:15:PRO:CB	2.53	0.56
22:BC:363:LYS:HG3	22:BC:364:PHE:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:160:LYS:NZ	23:BD:162:LYS:HB3	2.21	0.56
25:BF:87:ARG:CD	25:BF:102:LEU:HD23	2.35	0.56
25:BF:102:LEU:O	25:BF:105:LEU:HD23	2.06	0.56
25:BF:180:ILE:HD12	25:BF:182:ASP:N	2.13	0.56
26:BG:152:ILE:HD11	26:BG:162:VAL:CB	2.36	0.56
26:BG:179:VAL:HG22	26:BG:180:LYS:N	2.20	0.56
27:BH:97:PHE:HE2	27:BH:118:LEU:C	2.09	0.56
27:BH:99:ILE:CD1	27:BH:114:VAL:HG12	2.28	0.56
27:BH:106:LYS:HD2	27:BH:107:ASP:OD1	2.06	0.56
27:BH:124:ARG:NH1	27:BH:125:ASN:H	2.04	0.56
28:BI:131:ILE:HD12	28:BI:131:ILE:H	1.70	0.56
30:BK:113:ALA:CA	30:BK:132:ILE:HD12	2.35	0.56
31:BL:35:ILE:HG21	31:BL:108:ARG:HE	1.70	0.56
31:BL:67:ARG:HH11	31:BL:67:ARG:CB	2.17	0.56
39:BT:85:VAL:HG13	39:BT:86:SER:N	2.20	0.56
41:BV:91:LYS:HD2	41:BV:91:LYS:C	2.26	0.56
42:B0:42:VAL:CA	42:B0:49:ASN:HD22	2.15	0.56
44:BX:27:GLU:OE1	44:BX:27:GLU:HA	2.04	0.56
45:BY:27:HIS:CA	45:BY:30:LYS:HD3	2.35	0.56
46:BZ:71:LEU:N	46:BZ:71:LEU:HD22	2.21	0.56
1:AA:190(E):U:OP2	16:AQ:130:ILE:HD11	1.98	0.56
1:AA:946:A:H2'	1:AA:947:G:C8	2.41	0.56
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.40	0.56
1:AA:1301:U:O2'	13:AM:54:LEU:CB	2.44	0.56
1:AA:1375:A:C6	7:AG:76:TYR:OH	2.59	0.56
2:AT:169:VAL:CG1	2:AT:173:ASP:HB2	2.36	0.56
2:AT:296:ILE:O	2:AT:300:LEU:HD13	2.05	0.56
2:AT:646:VAL:C	2:AT:647:ILE:HD12	2.26	0.56
3:AB:109:TYR:HE1	3:AB:114:PHE:C	2.09	0.56
3:AB:116:GLU:OE2	6:AE:133:LEU:CG	2.54	0.56
3:AB:151:PRO:HB2	3:AB:154:PHE:HD2	1.70	0.56
4:AC:105:LYS:HE3	4:AC:183:ILE:CB	2.30	0.56
5:AD:159:ALA:HB3	5:AD:160:PRO:HD3	1.87	0.56
6:AE:173:ARG:HA	6:AE:194:ASP:OD2	2.05	0.56
9:AI:9:PHE:HZ	9:AI:16:THR:HB	1.65	0.56
12:AL:136:TRP:CD1	12:AL:139:LYS:HD3	2.41	0.56
13:AM:29:VAL:CG2	13:AM:54:LEU:HB3	2.34	0.56
18:B3:145:A:H1'	31:BL:111:ASN:CG	2.26	0.56
18:B3:251:C:H5"	31:BL:139:LYS:HB2	1.86	0.56
18:B3:263:U:C4'	26:BG:161:LEU:HD11	2.36	0.56
18:B3:326:G:O2'	18:B3:327:A:H5'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:449:A:H5”	18:B3:1305:C:H2’	1.87	0.56
18:B3:616:U:O2’	42:B0:47:ARG:NH1	2.36	0.56
18:B3:1184:A:O2’	18:B3:1185:U:H5’	2.06	0.56
18:B3:1350:U:H3’	23:BD:43:LYS:HG3	1.87	0.56
18:B3:1745:G:P	37:BR:22:ILE:CD1	2.93	0.56
18:B3:1808:C:P	18:B3:2885:A:H3’	2.46	0.56
18:B3:1814:G:OP1	18:B3:2733:U:O2	2.24	0.56
18:B3:2283:G:O5’	28:BI:115:MET:N	2.39	0.56
18:B3:2379:G:OP2	46:BZ:8:LYS:HD2	2.05	0.56
18:B3:2382:A:C8	46:BZ:10:TYR:HE2	1.98	0.56
18:B3:2712:G:O3’	37:BR:44:SER:HA	2.01	0.56
18:B3:2820:A:H5’	22:BC:90:GLY:HA3	1.87	0.56
21:BB:62:PHE:HB3	21:BB:66:TYR:HB2	1.88	0.56
21:BB:80:GLY:CA	47:B9:64:ALA:O	2.41	0.56
21:BB:201:VAL:HB	21:BB:216:GLN:HE22	1.71	0.56
22:BC:146:GLU:HG3	22:BC:147:LEU:CD1	2.26	0.56
23:BD:181:LEU:O	23:BD:181:LEU:HD23	2.06	0.56
25:BF:190:VAL:HG12	25:BF:191:GLY:N	2.21	0.56
28:BI:92:HIS:O	28:BI:127:ALA:HB2	2.06	0.56
28:BI:99:ILE:HG13	28:BI:121:LYS:HE3	1.87	0.56
31:BL:17:VAL:HG23	31:BL:18:LEU:N	2.21	0.56
31:BL:43:ARG:HH21	31:BL:47:ALA:N	2.04	0.56
33:BN:92:GLY:H	33:BN:94:LEU:HD13	1.69	0.56
33:BN:126:ARG:HD3	33:BN:126:ARG:H	1.70	0.56
34:BO:133:LYS:HD2	34:BO:134:GLY:O	2.06	0.56
35:BP:11:ALA:CB	35:BP:16:VAL:HG23	2.36	0.56
39:BT:104:VAL:HG12	39:BT:105:ASP:N	2.20	0.56
40:BU:39:LEU:HA	40:BU:42:GLN:CG	2.35	0.56
41:BV:39:HIS:HB2	41:BV:42:ILE:HB	1.86	0.56
41:BV:61:HIS:O	41:BV:66:HIS:HB2	2.06	0.56
41:BV:72:LEU:HG	41:BV:77:LEU:HD11	1.88	0.56
41:BV:85:LYS:HD2	41:BV:85:LYS:C	2.26	0.56
43:BW:7:VAL:HG12	43:BW:8:THR:N	2.21	0.56
44:BX:10:ARG:NH2	44:BX:11:THR:HB	2.21	0.56
44:BX:11:THR:CG2	44:BX:12:LYS:HD3	2.36	0.56
44:BX:44:ILE:O	44:BX:45:LYS:HB3	2.06	0.56
47:B9:22:ARG:CZ	47:B9:24:GLN:HG2	2.33	0.56
1:AA:14:U:OP1	1:AA:914:A:O3’	2.24	0.55
1:AA:21:G:C5’	1:AA:884:U:C4’	2.85	0.55
1:AA:64:G:N2	1:AA:73:C:N3	2.54	0.55
1:AA:125:U:H4’	1:AA:291:C:C4’	2.28	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:265:G:O3'	16:AQ:131:SER:HA	2.07	0.55
1:AA:538:G:C5'	12:AL:141:GLU:C	2.72	0.55
1:AA:552:U:C6	12:AL:47:SER:OG	2.56	0.55
1:AA:634:C:OP1	16:AQ:92:TYR:CB	2.51	0.55
1:AA:751:U:O2'	15:AO:83:ILE:CG1	2.54	0.55
1:AA:950:U:O5'	13:AM:140:THR:OG1	2.24	0.55
1:AA:956:U:H4'	17:AS:126:VAL:HG11	1.88	0.55
1:AA:1044:A:H2'	1:AA:1045:C:C5'	2.35	0.55
1:AA:1220:G:H4'	17:AS:94:VAL:HG21	1.88	0.55
1:AA:1345:U:N3	7:AG:76:TYR:HA	2.22	0.55
1:AA:1373:G:H5'	7:AG:104:GLY:O	2.06	0.55
7:AG:186:ILE:HG22	7:AG:188:THR:O	2.06	0.55
9:AI:40:PRO:O	9:AI:41:GLU:HG2	2.05	0.55
9:AI:89:VAL:N	9:AI:96:VAL:HG21	2.21	0.55
9:AI:98:GLU:N	9:AI:103:GLU:N	2.54	0.55
14:AN:31:ARG:O	14:AN:34:ASP:HB2	2.06	0.55
16:AQ:101:LYS:O	16:AQ:101:LYS:HG3	2.05	0.55
16:AQ:124:VAL:HG22	16:AQ:136:PHE:HB3	1.88	0.55
18:B3:71:G:N2	44:BX:56:THR:OG1	2.39	0.55
18:B3:471:G:C5'	45:BY:15:HIS:CD2	2.89	0.55
18:B3:677:C:O2	23:BD:230:ALA:CB	2.53	0.55
18:B3:920:C:C5	41:BV:38:HIS:HE1	2.23	0.55
18:B3:1054:G:O5'	28:BI:110:ARG:NH2	2.40	0.55
18:B3:1096:U:C2'	25:BF:213:TRP:CZ3	2.89	0.55
18:B3:1243:C:C4'	32:BM:17:ARG:CZ	2.84	0.55
18:B3:1310:U:O5'	23:BD:203:GLY:HA3	2.05	0.55
18:B3:1360:C:OP2	23:BD:90:GLY:O	2.24	0.55
18:B3:1673:U:H5"	39:BT:109:VAL:HG13	1.88	0.55
18:B3:1708:C:H5	35:BP:81:LYS:HG3	1.62	0.55
18:B3:2088:C:O2'	33:BN:67:GLY:O	2.12	0.55
18:B3:2214:A:C3'	20:BA:106:LYS:HD2	2.36	0.55
18:B3:2720:C:O2'	38:BS:19:THR:OG1	2.23	0.55
18:B3:2780:C:O2'	27:BH:155:SER:C	2.44	0.55
18:B3:2820:A:C4'	22:BC:90:GLY:N	2.63	0.55
19:B4:49:G:O3'	24:BE:96:ALA:N	2.39	0.55
21:BB:177:PRO:CG	47:B9:22:ARG:HH11	1.95	0.55
22:BC:114:LYS:HB3	22:BC:119:LYS:HE2	1.88	0.55
22:BC:161:VAL:HG21	22:BC:177:LEU:HD12	1.88	0.55
22:BC:174:LYS:HD2	22:BC:174:LYS:C	2.26	0.55
22:BC:302:LYS:HE3	22:BC:305:THR:CA	2.35	0.55
23:BD:24:VAL:HG13	23:BD:24:VAL:O	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:137:ARG:HG2	23:BD:137:ARG:NH1	2.21	0.55
23:BD:160:LYS:HE2	23:BD:163:GLU:H	1.71	0.55
24:BE:58:LYS:O	24:BE:59:ASP:HB2	2.06	0.55
25:BF:209:PRO:HD2	25:BF:242:MET:CG	2.35	0.55
26:BG:108:LEU:HB3	26:BG:117:GLU:OE1	2.06	0.55
27:BH:41:ILE:HG22	27:BH:42:ASP:N	2.20	0.55
28:BI:78:THR:OG1	28:BI:147:VAL:HG21	2.06	0.55
28:BI:103:LEU:H	28:BI:112:GLN:CB	2.19	0.55
28:BI:141:LYS:HD2	28:BI:141:LYS:N	2.21	0.55
31:BL:76:LYS:HG2	31:BL:77:GLY:N	2.21	0.55
31:BL:141:ILE:HG23	31:BL:142:ARG:H	1.68	0.55
32:BM:6:VAL:HG23	32:BM:6:VAL:O	2.06	0.55
32:BM:80:TYR:O	32:BM:83:LEU:HB2	2.06	0.55
33:BN:27:ASN:HA	33:BN:30:GLU:HG2	1.87	0.55
34:BO:81:VAL:HG23	34:BO:81:VAL:O	2.05	0.55
34:BO:81:VAL:O	34:BO:101:VAL:HG21	2.06	0.55
34:BO:86:THR:OG1	34:BO:106:PHE:HA	2.06	0.55
35:BP:9:LEU:O	35:BP:10:ALA:HB3	2.06	0.55
35:BP:104:LEU:HD12	35:BP:104:LEU:N	2.21	0.55
37:BR:95:PHE:HE2	38:BS:23:ARG:CG	2.16	0.55
39:BT:66:ILE:HG13	39:BT:120:LYS:NZ	2.20	0.55
39:BT:75:VAL:HB	39:BT:131:ALA:HB2	1.88	0.55
39:BT:104:VAL:HG12	39:BT:125:LEU:HD22	1.88	0.55
40:BU:88:GLU:CD	40:BU:89:LYS:HZ1	2.08	0.55
43:BW:16:HIS:CD2	43:BW:34:GLU:HB2	2.40	0.55
43:BW:53:GLU:HG3	43:BW:54:LEU:N	2.16	0.55
1:AA:67:C:N3	1:AA:70:G:N7	2.53	0.55
1:AA:254:G:O2'	16:AQ:79:MET:HB3	2.07	0.55
1:AA:292:G:H2'	1:AA:609:A:N1	2.12	0.55
1:AA:435:C:H2'	1:AA:436:C:H6	1.71	0.55
1:AA:538:G:OP2	12:AL:142:LYS:CG	2.41	0.55
1:AA:562:C:C2	12:AL:32:ARG:CG	2.75	0.55
1:AA:780:A:O2'	1:AA:781:A:H5"	2.06	0.55
1:AA:1240:U:C5'	7:AG:188:THR:HG22	2.37	0.55
4:AC:10:LEU:HD11	14:AN:32:LYS:CG	2.36	0.55
4:AC:40:VAL:HG22	4:AC:41:THR:N	2.19	0.55
5:AD:143:ILE:HG23	5:AD:143:ILE:O	2.05	0.55
6:AE:115:LYS:HD3	6:AE:126:ALA:HB1	1.88	0.55
10:AJ:69:LYS:HB3	10:AJ:78:THR:HG21	1.89	0.55
10:AJ:80:GLU:OE2	14:AN:43:ARG:NH1	2.39	0.55
12:AL:72:VAL:HG11	12:AL:96:VAL:HG11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:135:LEU:HG	12:AL:136:TRP:N	2.20	0.55
13:AM:26:ILE:HG12	13:AM:27:LYS:N	2.21	0.55
18:B3:81:G:H5'	40:BU:74:TYR:C	2.26	0.55
18:B3:183:A:H1'	31:BL:158:ARG:NH1	2.20	0.55
18:B3:449:A:P	23:BD:45:LYS:CG	2.95	0.55
18:B3:875:A:C1'	21:BB:203:MET:CE	2.78	0.55
18:B3:924:G:C6	41:BV:41:ARG:HD2	2.42	0.55
18:B3:1201:C:H2'	18:B3:1202:A:H5'	1.88	0.55
18:B3:1380:U:H3'	43:BW:25:LYS:HZ2	1.55	0.55
18:B3:1450:C:H4'	18:B3:1451:C:OP2	2.06	0.55
18:B3:1459:A:H5'	21:BB:20:ARG:HD3	1.87	0.55
18:B3:1706:G:P	35:BP:65:HIS:ND1	2.73	0.55
18:B3:1735:C:O2'	18:B3:1736:A:H5'	2.06	0.55
18:B3:1806:G:C5'	18:B3:2874:G:C1'	2.84	0.55
18:B3:1871:U:P	21:BB:192:ARG:HB2	2.45	0.55
18:B3:2065:C:OP2	22:BC:255:HIS:CD2	2.30	0.55
18:B3:2101:A:C8	23:BD:70:VAL:O	2.59	0.55
18:B3:2345:A:C4'	29:BJ:48:LYS:HE3	2.29	0.55
18:B3:2349:G:O6	29:BJ:117:PRO:CA	2.49	0.55
18:B3:2552:C:H3'	18:B3:2553:A:H5'	1.88	0.55
18:B3:2565:C:N4	27:BH:171:ASP:CG	2.60	0.55
18:B3:2704:C:O2'	27:BH:122:LYS:CE	2.53	0.55
18:B3:2826:G:C2'	22:BC:123:LYS:CA	2.63	0.55
19:B4:5:G:O2'	24:BE:50:ARG:CZ	2.55	0.55
19:B4:36:C:H2'	24:BE:155:THR:C	2.23	0.55
19:B4:50:G:O2'	24:BE:91:GLY:HA3	2.06	0.55
20:BA:159:LEU:HG	20:BA:162:VAL:O	2.06	0.55
21:BB:204:ASN:HB2	21:BB:212:GLY:CA	2.35	0.55
22:BC:251:ILE:HG21	22:BC:261:TRP:HB3	1.87	0.55
22:BC:277:ILE:HG22	22:BC:278:ASN:OD1	2.07	0.55
23:BD:68:ARG:CZ	23:BD:69:ALA:H	2.19	0.55
23:BD:106:ARG:HD3	23:BD:106:ARG:O	2.06	0.55
23:BD:256:LYS:HB3	23:BD:259:GLN:N	2.19	0.55
24:BE:144:VAL:HG23	24:BE:171:LEU:HD11	1.87	0.55
25:BF:117:LYS:HE2	25:BF:118:VAL:HG13	1.87	0.55
26:BG:104:LYS:CE	26:BG:180:LYS:HB2	2.36	0.55
26:BG:130:ALA:HB1	26:BG:201:GLU:HG3	1.86	0.55
27:BH:12:VAL:O	27:BH:52:LEU:HD22	2.06	0.55
27:BH:31:ARG:NE	27:BH:31:ARG:HA	2.22	0.55
29:BJ:130:MET:CE	29:BJ:162:PHE:HD2	2.20	0.55
31:BL:58:PHE:CE2	31:BL:147:TYR:CZ	2.94	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:20:TYR:HA	33:BN:143:SER:O	2.04	0.55
33:BN:46:TYR:HD1	33:BN:47:LEU:H	1.54	0.55
34:BO:66:ARG:HD2	34:BO:66:ARG:O	2.06	0.55
35:BP:40:ILE:HA	35:BP:43:LEU:HD22	1.86	0.55
43:BW:15:LEU:HD12	43:BW:15:LEU:H	1.71	0.55
45:BY:46:TYR:CD2	45:BY:48:TRP:CE3	2.93	0.55
47:B9:56:CYS:N	47:B9:61:LYS:HD3	2.21	0.55
1:AA:13:U:C4'	1:AA:913:A:O2'	2.43	0.55
1:AA:190(E):U:O4'	16:AQ:130:ILE:HD13	2.04	0.55
1:AA:861:G:P	8:AH:18:LYS:HZ1	2.20	0.55
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.07	0.55
1:AA:1075:C:H5'	3:AB:102:THR:HA	1.84	0.55
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.41	0.55
1:AA:1224:G:H4'	13:AM:139:LYS:CA	2.37	0.55
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.39	0.55
1:AA:1319:A:H5'	1:AA:1320:C:OP1	2.06	0.55
1:AA:1406:U:H1'	1:AA:1518:A:H5'	0.64	0.55
5:AD:60:LEU:HD23	5:AD:60:LEU:C	2.27	0.55
5:AD:114:TYR:HE1	5:AD:120:LYS:O	1.89	0.55
8:AH:101:VAL:HB	8:AH:127:PHE:CE2	2.41	0.55
13:AM:122:HIS:NE2	13:AM:126:ARG:HD3	2.21	0.55
15:AO:91:ILE:HD11	15:AO:92:LYS:HZ2	1.71	0.55
15:AO:108:LYS:HD3	15:AO:108:LYS:O	2.05	0.55
17:AS:83:MET:HE1	17:AS:116:LEU:HD11	1.88	0.55
18:B3:26:U:N1	18:B3:1319:G:O2'	2.38	0.55
18:B3:79:G:O3'	40:BU:74:TYR:OH	2.24	0.55
18:B3:684:G:H2'	18:B3:685:C:C6	2.42	0.55
18:B3:745:G:N7	34:BO:65:SER:OG	2.23	0.55
18:B3:906:C:O3'	18:B3:1328:A:O3'	2.20	0.55
18:B3:921:G:C1'	41:BV:41:ARG:CB	2.82	0.55
18:B3:1055:G:C1'	28:BI:111:LEU:HB2	2.19	0.55
18:B3:1164:U:O4'	30:BK:48:LYS:HA	2.05	0.55
18:B3:1682:A:H2	18:B3:1696:U:N3	1.89	0.55
18:B3:1909:A:H2'	18:B3:1910:A:C8	2.42	0.55
18:B3:2350:G:O6	29:BJ:115:TYR:CB	2.54	0.55
18:B3:2403:C:C2'	36:BQ:69:LYS:HB2	2.36	0.55
18:B3:2468:A:C2	46:BZ:54:LYS:CA	2.87	0.55
19:B4:14:G:H5'	19:B4:14:G:C8	2.39	0.55
19:B4:49:G:C6	24:BE:158:ARG:NH2	2.66	0.55
20:BA:24:LYS:NZ	20:BA:25:LYS:HB3	2.21	0.55
20:BA:49:PHE:CZ	20:BA:51:GLY:HA3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:BA:167:VAL:HG12	20:BA:168:ALA:N	2.21	0.55
21:BB:179:LEU:HA	47:B9:20:SER:CA	2.35	0.55
22:BC:49:LYS:HG2	22:BC:332:LYS:CA	2.37	0.55
22:BC:176:HIS:CE1	22:BC:335:VAL:HG21	2.41	0.55
23:BD:64:TRP:HZ3	23:BD:67:GLY:CA	2.19	0.55
23:BD:181:LEU:HD12	23:BD:202:ARG:CA	2.31	0.55
24:BE:146:LEU:HD11	24:BE:163:LEU:HB2	1.89	0.55
25:BF:168:ILE:HG12	25:BF:177:ILE:O	2.06	0.55
25:BF:206:LEU:HD21	25:BF:242:MET:O	2.05	0.55
28:BI:69:ARG:HG3	28:BI:69:ARG:O	2.03	0.55
28:BI:165:ILE:O	28:BI:165:ILE:HD13	2.07	0.55
29:BJ:14:GLU:HG2	29:BJ:129:VAL:HG13	1.87	0.55
30:BK:104:ILE:HD11	30:BK:108:GLU:OE2	2.07	0.55
31:BL:119:TRP:CD1	31:BL:129:PHE:CD2	2.93	0.55
32:BM:22:VAL:O	32:BM:22:VAL:HG13	2.06	0.55
33:BN:32:ALA:HB2	33:BN:117:GLN:HE21	1.71	0.55
33:BN:88:LYS:CD	33:BN:89:PHE:HD2	2.19	0.55
34:BO:76:ALA:C	34:BO:79:LYS:HE3	2.26	0.55
37:BR:87:ARG:HA	37:BR:92:PHE:CD2	2.40	0.55
40:BU:24:SER:C	40:BU:27:ARG:HD3	2.27	0.55
40:BU:113:LYS:HD2	40:BU:116:LYS:HZ1	1.70	0.55
40:BU:119:ILE:O	40:BU:119:ILE:HG13	2.07	0.55
41:BV:116:ARG:O	41:BV:117:ILE:HD13	2.07	0.55
42:B0:43:ARG:HG3	42:B0:44:ARG:H	1.70	0.55
47:B9:26:LYS:O	47:B9:27:LYS:HG2	2.06	0.55
1:AA:55:A:C2	2:AT:68:ILE:HG13	2.41	0.55
1:AA:144:G:N1	1:AA:199:G:H5”	2.00	0.55
1:AA:335:C:O5’	1:AA:1434:A:O3’	2.25	0.55
1:AA:499:A:O3’	1:AA:546:G:N2	2.37	0.55
1:AA:633:G:H4’	16:AQ:94:PRO:C	2.24	0.55
1:AA:676:A:OP2	11:AK:120:VAL:O	2.20	0.55
1:AA:989:C:H6	1:AA:1016:A:C6	2.17	0.55
1:AA:1223:C:OP1	1:AA:1224:G:H3’	2.06	0.55
1:AA:1299:A:C8	13:AM:55:HIS:HA	2.42	0.55
2:AT:279:ASP:HB3	2:AT:280:PRO:HD3	1.88	0.55
4:AC:133:CYS:C	4:AC:156:LEU:HD11	2.27	0.55
5:AD:101:VAL:O	5:AD:101:VAL:HG12	2.04	0.55
6:AE:165:THR:HB	6:AE:200:ASN:CG	2.27	0.55
13:AM:54:LEU:N	13:AM:54:LEU:HD12	2.21	0.55
13:AM:145:ARG:HG3	13:AM:145:ARG:O	2.07	0.55
18:B3:68:U:N3	44:BX:57:VAL:CG2	2.65	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:137:U:H2'	18:B3:139:C:C5	2.41	0.55
18:B3:617:C:C2'	42:B0:45:ARG:O	2.55	0.55
18:B3:698:A:P	41:BV:113:GLY:O	2.64	0.55
18:B3:751:U:C4'	23:BD:36:THR:CG2	2.58	0.55
18:B3:875:A:O2'	21:BB:203:MET:HE1	2.06	0.55
18:B3:1348:A:C2	23:BD:42:ASN:CG	2.80	0.55
18:B3:1370:G:C8	33:BN:27:ASN:CB	2.88	0.55
18:B3:1993:C:H5'	37:BR:71:LYS:HA	0.56	0.55
18:B3:2561:C:H5"	18:B3:2778:A:H5'	1.88	0.55
18:B3:2578:G:N9	18:B3:2801:A:H5"	2.21	0.55
18:B3:2580:G:P	18:B3:2680:A:N7	2.79	0.55
18:B3:2703:A:N1	27:BH:121:LYS:HE2	2.20	0.55
19:B4:120:A:H4'	24:BE:74:VAL:HG12	1.88	0.55
21:BB:97:VAL:HA	21:BB:165:ILE:HB	1.84	0.55
21:BB:99:ASN:O	21:BB:100:VAL:HG13	2.06	0.55
21:BB:115:VAL:HG12	21:BB:162:ARG:HH12	1.70	0.55
21:BB:127:ARG:H	21:BB:127:ARG:CD	2.13	0.55
22:BC:302:LYS:HD3	22:BC:302:LYS:N	2.22	0.55
23:BD:130:VAL:HG11	23:BD:133:LEU:O	2.07	0.55
23:BD:133:LEU:CD1	23:BD:136:ALA:HB3	2.28	0.55
24:BE:183:TRP:HE3	24:BE:184:ASP:HB2	1.70	0.55
27:BH:118:LEU:HD22	27:BH:118:LEU:H	1.71	0.55
27:BH:172:ILE:HG23	27:BH:172:ILE:O	2.07	0.55
30:BK:65:GLN:HG2	30:BK:117:ARG:HH22	1.70	0.55
31:BL:119:TRP:CA	31:BL:129:PHE:HA	2.36	0.55
31:BL:158:ARG:HE	31:BL:159:GLU:HB2	1.71	0.55
32:BM:124:ARG:O	32:BM:124:ARG:HG2	2.06	0.55
33:BN:12:LYS:HG3	33:BN:151:GLU:C	2.25	0.55
33:BN:59:PHE:CE1	33:BN:81:ARG:HD3	2.41	0.55
35:BP:11:ALA:HB3	35:BP:18:LYS:CE	2.37	0.55
36:BQ:85:LEU:HD12	36:BQ:85:LEU:N	2.22	0.55
37:BR:80:ARG:HB2	37:BR:99:ALA:CB	2.35	0.55
40:BU:84:LYS:HD2	40:BU:84:LYS:N	2.22	0.55
41:BV:48:HIS:HA	41:BV:51:TYR:CD1	2.42	0.55
45:BY:15:HIS:HD2	45:BY:24:ARG:CD	2.19	0.55
1:AA:265:G:O2'	1:AA:266:G:H5'	2.06	0.55
1:AA:403:C:O3'	5:AD:126:ARG:HB3	2.07	0.55
1:AA:639:G:O2'	1:AA:640:A:H5'	2.06	0.55
1:AA:650:G:C2'	1:AA:651:C:H5'	2.37	0.55
1:AA:1129:C:H41	1:AA:1141:C:H42	1.55	0.55
1:AA:1226:C:O2	17:AS:126:VAL:C	2.44	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1349:A:H5”	9:AI:135:SER:CA	2.37	0.55
1:AA:1503:A:C2’	1:AA:1507:A:O5’	2.55	0.55
2:AT:615:ARG:HG2	2:AT:619:MET:HE1	1.89	0.55
3:AB:86:LEU:HD12	3:AB:86:LEU:C	2.26	0.55
3:AB:89:ALA:CB	3:AB:96:PRO:HG3	2.37	0.55
5:AD:100:LYS:HG3	5:AD:195:ASP:CB	2.36	0.55
8:AH:32:VAL:HG23	8:AH:33:ILE:N	2.21	0.55
9:AI:47:VAL:HG11	9:AI:80:ILE:CB	2.37	0.55
18:B3:215:A:OP1	41:BV:58:ARG:CB	2.47	0.55
18:B3:540:A:P	42:B0:16:LYS:O	2.65	0.55
18:B3:566:A:H2’	18:B3:567:U:O4’	2.06	0.55
18:B3:817:G:O2’	18:B3:818:A:H8	1.90	0.55
18:B3:820:G:OP1	47:B9:21:LEU:CD2	2.55	0.55
18:B3:920:C:C5	41:BV:38:HIS:CE1	2.94	0.55
18:B3:1056:U:H2’	18:B3:1057:A:O4’	2.05	0.55
18:B3:1132:A:N1	18:B3:2500:C:O2	2.39	0.55
18:B3:1133:A:N1	18:B3:2501:G:C8	2.75	0.55
18:B3:1214:G:H4’	18:B3:1215:A:OP1	2.06	0.55
18:B3:1666:C:H2’	18:B3:1667:A:C8	2.41	0.55
18:B3:1688:G:C2	33:BN:129:TYR:OH	2.59	0.55
18:B3:1806:G:H22	18:B3:2883:A:H3’	0.41	0.55
18:B3:2244:A:H4’	31:BL:27:TRP:CE3	2.37	0.55
19:B4:50:G:H5’	24:BE:94:ASN:CG	2.26	0.55
20:BA:52:SER:O	20:BA:53:LEU:HD23	2.06	0.55
21:BB:3:VAL:HG11	21:BB:7:GLN:HE21	1.70	0.55
21:BB:199:ARG:N	21:BB:199:ARG:HD3	2.21	0.55
22:BC:91:TYR:N	22:BC:101:LEU:HG	2.21	0.55
22:BC:104:VAL:HA	22:BC:105:TRP:CE3	2.41	0.55
22:BC:303:THR:HG23	22:BC:304:ILE:HG13	1.87	0.55
24:BE:56:THR:HB	24:BE:59:ASP:HB3	1.89	0.55
24:BE:183:TRP:HB2	24:BE:187:THR:HA	1.88	0.55
28:BI:128:ARG:HB2	28:BI:128:ARG:HH11	1.72	0.55
29:BJ:79:LEU:HD23	29:BJ:126:PHE:CE1	2.41	0.55
31:BL:187:ARG:NH1	31:BL:191:LYS:HB3	2.22	0.55
33:BN:117:GLN:NE2	33:BN:117:GLN:H	2.03	0.55
34:BO:45:ASN:HA	34:BO:48:VAL:CG1	2.37	0.55
34:BO:63:SER:HB3	34:BO:90:ASP:OD1	2.07	0.55
36:BQ:74:VAL:CB	36:BQ:91:LEU:HD21	2.36	0.55
37:BR:11:PHE:CD2	37:BR:121:GLU:HG3	2.42	0.55
39:BT:106:VAL:CB	39:BT:123:VAL:HG11	2.32	0.55
40:BU:39:LEU:HD11	40:BU:43:TYR:HE1	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:100:HIS:HB2	40:BU:101:PRO:CA	2.37	0.55
41:BV:147:ILE:HD12	41:BV:147:ILE:C	2.27	0.55
44:BX:12:LYS:CG	44:BX:16:GLN:HG2	2.36	0.55
1:AA:6:G:C4'	1:AA:298:A:O2'	2.54	0.55
1:AA:190:C:H2'	1:AA:190(A):C:C6	2.42	0.55
1:AA:190(F):G:C2	1:AA:265:G:OP2	2.58	0.55
1:AA:336:C:O2	1:AA:1468:A:N3	2.39	0.55
1:AA:400:C:H4'	5:AD:77:ILE:HD13	1.22	0.55
1:AA:449:C:O3'	1:AA:619:U:OP2	2.23	0.55
1:AA:987:G:C5	17:AS:77:ARG:CD	2.78	0.55
1:AA:1321:C:H2'	17:AS:81:ARG:HH21	0.73	0.55
1:AA:1373:G:C1'	7:AG:104:GLY:HA3	2.36	0.55
1:AA:1483:A:H2'	18:B3:2001:G:C4	2.42	0.55
3:AB:139:ASN:CB	8:AH:69:ASN:CG	2.74	0.55
8:AH:70:LYS:HG3	8:AH:71:CYS:N	2.21	0.55
9:AI:34:PRO:HG2	9:AI:37:LEU:CB	2.29	0.55
11:AK:47:VAL:HG12	11:AK:52:ASP:HB3	1.89	0.55
11:AK:78:VAL:HG12	11:AK:79:HIS:N	2.22	0.55
18:B3:35:U:C5'	23:BD:104:THR:HB	2.31	0.55
18:B3:251:C:C2'	31:BL:139:LYS:CE	2.65	0.55
18:B3:707:C:N4	34:BO:72:LYS:HE3	2.21	0.55
18:B3:749:C:O2'	23:BD:113:ASN:CB	2.54	0.55
18:B3:891:G:O4'	45:BY:49:GLY:HA2	2.07	0.55
18:B3:897:A:P	41:BV:26:LYS:CB	2.93	0.55
18:B3:1115:U:C2	18:B3:1225:C:O4'	2.59	0.55
18:B3:1118:A:C4'	18:B3:1227:C:C5	2.88	0.55
18:B3:1761:U:H2'	18:B3:1762:C:C6	2.42	0.55
18:B3:1875:A:O2'	21:BB:150:PRO:HB2	2.04	0.55
18:B3:2347:C:O2'	29:BJ:17:VAL:HG23	2.07	0.55
18:B3:2348:C:H4'	29:BJ:69:THR:HA	1.89	0.55
18:B3:2382:A:N7	46:BZ:10:TYR:CE2	2.73	0.55
18:B3:2415:A:H1'	24:BE:39:GLN:HG3	0.94	0.55
18:B3:2468:A:H4'	18:B3:2469:A:OP1	2.06	0.55
18:B3:2764:C:P	37:BR:14:SER:OG	2.62	0.55
18:B3:2779:G:C1'	27:BH:163:GLN:CB	2.81	0.55
18:B3:2828:G:N1	22:BC:127:LYS:N	2.38	0.55
18:B3:2847:G:C3'	22:BC:172:GLN:HG3	2.20	0.55
19:B4:13:A:H1'	24:BE:20:PHE:HE1	1.72	0.55
21:BB:201:VAL:CG1	21:BB:216:GLN:HA	2.33	0.55
22:BC:173:LYS:HE3	22:BC:174:LYS:N	2.19	0.55
22:BC:176:HIS:CE1	22:BC:335:VAL:HG11	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:348:LYS:H	22:BC:348:LYS:CD	2.18	0.55
23:BD:62:GLU:H	23:BD:76:VAL:HB	1.71	0.55
24:BE:64:ILE:HG12	24:BE:109:THR:CG2	2.27	0.55
24:BE:64:ILE:H	24:BE:74:VAL:HG23	1.72	0.55
25:BF:115:PHE:CE2	25:BF:187:ILE:HG22	2.41	0.55
25:BF:123:LEU:HD13	25:BF:123:LEU:C	2.27	0.55
25:BF:133:VAL:HG23	25:BF:134:ALA:O	2.07	0.55
31:BL:58:PHE:CE2	31:BL:147:TYR:CE1	2.95	0.55
31:BL:158:ARG:HH21	31:BL:159:GLU:HB3	1.72	0.55
32:BM:35:VAL:HG11	32:BM:109:PRO:HA	1.88	0.55
33:BN:17:ARG:HG3	33:BN:146:GLU:C	2.26	0.55
35:BP:101:LEU:CD1	35:BP:137:LEU:HD12	2.25	0.55
35:BP:119:TYR:O	35:BP:123:TYR:HB2	2.07	0.55
37:BR:32:ARG:NH1	37:BR:62:VAL:HG12	2.22	0.55
37:BR:54:LEU:HD13	37:BR:78:VAL:HG22	1.88	0.55
40:BU:50:ILE:HD13	40:BU:104:LEU:CD1	2.22	0.55
40:BU:115:ARG:HD2	40:BU:118:LEU:CA	2.33	0.55
41:BV:59:TYR:HB3	41:BV:62:LYS:CB	2.36	0.55
41:BV:125:LYS:CA	41:BV:145:GLU:HB2	2.36	0.55
43:BW:77:LYS:CD	43:BW:79:ASN:HB2	2.36	0.55
45:BY:27:HIS:O	45:BY:30:LYS:HD3	2.06	0.55
46:BZ:71:LEU:HD23	46:BZ:82:LEU:HD22	1.89	0.55
47:B9:25:VAL:HA	47:B9:28:LEU:HD12	1.88	0.55
1:AA:254:G:OP1	16:AQ:132:LYS:O	2.25	0.55
1:AA:254:G:O3'	16:AQ:82:THR:HG21	2.06	0.55
1:AA:621:A:OP2	5:AD:143:ILE:CB	2.54	0.55
1:AA:692:U:OP2	11:AK:89:ARG:NH2	2.39	0.55
1:AA:743:U:H2'	1:AA:744:C:C6	2.42	0.55
1:AA:1240:U:O4'	7:AG:188:THR:HB	2.07	0.55
1:AA:1328:C:H1'	13:AM:96:LYS:CD	2.10	0.55
1:AA:1377:A:C5	7:AG:76:TYR:CG	2.66	0.55
2:AT:144:ARG:CB	2:AT:481:MET:O	2.55	0.55
2:AT:353:ALA:HB3	2:AT:370:LYS:HG2	1.87	0.55
3:AB:75:ILE:CG2	3:AB:122:VAL:HA	2.37	0.55
3:AB:109:TYR:HE1	3:AB:114:PHE:HB3	1.72	0.55
4:AC:165:ASP:HB3	4:AC:167:ILE:CG1	2.31	0.55
5:AD:98:ALA:O	5:AD:99:LEU:HB3	2.07	0.55
6:AE:81:ASN:HD22	6:AE:81:ASN:N	2.03	0.55
8:AH:33:ILE:HG23	8:AH:60:ILE:CD1	2.37	0.55
9:AI:51:LEU:HA	9:AI:58:LYS:CG	2.37	0.55
9:AI:142:ARG:HG2	9:AI:142:ARG:OXT	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:42:THR:HG21	11:AK:58:ALA:HB1	1.88	0.55
12:AL:39:LYS:HD2	12:AL:110:LYS:HE2	1.89	0.55
12:AL:84:THR:CG2	12:AL:120:VAL:HG12	2.37	0.55
15:AO:91:ILE:HG13	15:AO:92:LYS:N	2.21	0.55
18:B3:106:A:H2	44:BX:56:THR:OG1	1.90	0.55
18:B3:905:C:H5"	41:BV:11:ARG:HD3	1.79	0.55
18:B3:925:C:C5'	41:BV:28:PRO:HG3	2.37	0.55
18:B3:1697:G:O2'	18:B3:1698:U:H5'	2.05	0.55
18:B3:2016:U:H2'	18:B3:2017:U:C6	2.42	0.55
18:B3:2275:G:H8	31:BL:80:TYR:CD2	2.23	0.55
18:B3:2351:C:O2	29:BJ:114:LYS:O	2.25	0.55
18:B3:2579:G:O3'	18:B3:2680:A:C8	2.60	0.55
18:B3:2581:U:C1'	18:B3:2600:A:H2	2.16	0.55
18:B3:2655:U:C2'	22:BC:265:ARG:HB3	2.25	0.55
18:B3:2820:A:O4'	22:BC:89:VAL:CB	2.54	0.55
18:B3:2829:G:OP1	22:BC:130:THR:CG2	2.54	0.55
18:B3:2837:U:H3	22:BC:334:ILE:HA	1.72	0.55
21:BB:1:GLY:N	21:BB:206:VAL:HB	2.22	0.55
21:BB:103:LEU:HD22	21:BB:106:VAL:CG1	2.36	0.55
22:BC:260:MET:HB2	32:BM:66:THR:CB	2.36	0.55
23:BD:10:LEU:N	23:BD:10:LEU:HD22	2.20	0.55
24:BE:36:LEU:O	24:BE:37:VAL:HG12	2.07	0.55
24:BE:55:PHE:HZ	24:BE:159:VAL:N	2.03	0.55
24:BE:148:ILE:HB	24:BE:151:GLN:OE1	2.07	0.55
25:BF:116:VAL:HG11	25:BF:122:THR:HG23	1.87	0.55
25:BF:124:GLU:O	25:BF:127:LYS:HG2	2.07	0.55
25:BF:168:ILE:HD13	25:BF:183:LEU:HD21	1.88	0.55
27:BH:33:THR:HG22	27:BH:34:LEU:N	2.21	0.55
28:BI:60:LEU:HD23	28:BI:127:ALA:O	2.07	0.55
28:BI:140:THR:HG22	28:BI:141:LYS:N	2.15	0.55
30:BK:98:VAL:CG1	30:BK:142:ARG:HB2	2.36	0.55
32:BM:60:ALA:HB1	32:BM:71:HIS:HD2	1.71	0.55
36:BQ:64:VAL:CG2	36:BQ:74:VAL:HG22	2.37	0.55
38:BS:39:LEU:O	38:BS:42:GLN:HG2	2.06	0.55
39:BT:106:VAL:HG23	39:BT:106:VAL:O	2.05	0.55
42:B0:115:LEU:HD22	42:B0:115:LEU:N	2.22	0.55
43:BW:38:PHE:O	43:BW:42:HIS:HB2	2.07	0.55
1:AA:54:C:H2'	1:AA:352:C:H41	1.71	0.55
1:AA:121:C:C2	1:AA:126:G:O6	2.60	0.55
1:AA:190(D):U:H3	16:AQ:111:SER:CB	2.20	0.55
1:AA:239:U:H6	1:AA:240:C:C5	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:712:A:N1	11:AK:124:SER:C	2.61	0.55
1:AA:1129:C:O2'	1:AA:1130:A:OP2	2.22	0.55
1:AA:1329:A:H1'	13:AM:90:ASN:HD22	1.71	0.55
2:AT:464:LEU:CB	2:AT:513:LYS:CG	2.59	0.55
8:AH:74:ILE:HD13	8:AH:77:ARG:CZ	2.37	0.55
9:AI:35:ILE:HG23	9:AI:36:THR:N	2.22	0.55
12:AL:76:LEU:HD22	12:AL:76:LEU:N	2.22	0.55
18:B3:124:C:P	39:BT:88:LYS:HD3	2.45	0.55
18:B3:166:A:N6	41:BV:28:PRO:O	2.40	0.55
18:B3:170:U:H5"	31:BL:82:LYS:HB2	1.87	0.55
18:B3:382:U:C4	31:BL:11:ARG:NH2	2.75	0.55
18:B3:449:A:H61	18:B3:1349:G:H5"	1.70	0.55
18:B3:553:G:OP2	42:B0:71:HIS:NE2	2.37	0.55
18:B3:745:G:H22	41:BV:76:LYS:NZ	2.04	0.55
18:B3:894:A:O4'	23:BD:57:HIS:NE2	2.40	0.55
18:B3:924:G:N7	41:BV:41:ARG:NH1	2.55	0.55
18:B3:1184:A:H5'	30:BK:85:LEU:HD12	1.88	0.55
18:B3:1555:G:O2'	18:B3:1556:G:P	2.64	0.55
18:B3:1672:G:H4'	39:BT:91:LYS:NZ	2.22	0.55
18:B3:2053:G:OP1	33:BN:141:SER:N	2.35	0.55
18:B3:2100:A:O5'	23:BD:69:ALA:N	2.40	0.55
18:B3:2204:A:H2'	18:B3:2205:G:O4'	2.07	0.55
18:B3:2338:G:O5'	29:BJ:126:PHE:HB2	2.06	0.55
18:B3:2463:A:O2'	18:B3:2464:C:OP1	2.23	0.55
19:B4:7:G:C8	24:BE:22:ARG:CD	2.90	0.55
20:BA:90:LEU:HG	20:BA:124:LEU:CD1	2.33	0.55
22:BC:24:ILE:HG23	22:BC:24:ILE:O	2.07	0.55
22:BC:52:MET:HG2	22:BC:75:VAL:C	2.26	0.55
22:BC:109:LEU:HD13	22:BC:109:LEU:C	2.27	0.55
22:BC:248:VAL:HG12	22:BC:249:ALA:N	2.20	0.55
22:BC:310:PHE:HD2	22:BC:311:VAL:HG23	1.65	0.55
24:BE:63:GLN:HG2	24:BE:64:ILE:N	2.17	0.55
24:BE:204:VAL:O	24:BE:207:TYR:HB3	2.06	0.55
25:BF:235:ILE:HG22	25:BF:235:ILE:O	2.07	0.55
26:BG:201:GLU:HG3	26:BG:202:VAL:H	1.71	0.55
28:BI:15:LYS:HB3	28:BI:16:PRO:CD	2.37	0.55
28:BI:17:TYR:HB2	28:BI:18:PRO:C	2.27	0.55
28:BI:29:SER:CB	28:BI:31:ILE:HG22	2.26	0.55
28:BI:52:LEU:HB2	28:BI:136:PHE:H	1.71	0.55
29:BJ:140:ARG:NH1	29:BJ:140:ARG:HA	2.21	0.55
31:BL:72:ARG:HH12	31:BL:88:VAL:HG12	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:72:ARG:NH1	31:BL:88:VAL:HG12	2.21	0.55
31:BL:90:GLU:HG2	31:BL:91:LEU:N	2.22	0.55
31:BL:126:TYR:HD1	31:BL:126:TYR:N	2.05	0.55
31:BL:150:ILE:HG12	31:BL:151:CYS:SG	2.46	0.55
34:BO:138:LEU:HD12	34:BO:138:LEU:N	2.22	0.55
35:BP:72:GLY:O	35:BP:73:ARG:HG3	2.06	0.55
36:BQ:27:LEU:HA	36:BQ:30:TYR:CE1	2.41	0.55
37:BR:45:ARG:HG2	37:BR:46:LEU:N	2.21	0.55
37:BR:48:ARG:HG2	37:BR:49:LEU:N	2.21	0.55
37:BR:92:PHE:C	38:BS:19:THR:HG23	2.26	0.55
42:B0:62:LYS:HD2	42:B0:62:LYS:C	2.26	0.55
42:B0:82:LEU:HD12	42:B0:82:LEU:O	2.07	0.55
43:BW:16:HIS:HB2	43:BW:30:ARG:CZ	2.37	0.55
47:B9:9:ILE:O	47:B9:10:THR:HG23	2.07	0.55
1:AA:192:U:O2'	1:AA:193:C:H5'	2.05	0.55
1:AA:364:A:N7	12:AL:78:LYS:HD2	2.17	0.55
1:AA:947:G:C3'	13:AM:143:ARG:CZ	2.84	0.55
1:AA:1065:U:O4	1:AA:1189:C:N4	2.40	0.55
1:AA:1221:G:P	17:AS:81:ARG:N	2.79	0.55
1:AA:1343:G:H4'	9:AI:136:ARG:C	2.27	0.55
1:AA:1346:A:H1'	1:AA:1348:U:C5	2.42	0.55
1:AA:1460:A:H2'	1:AA:1461:G:O4'	2.06	0.55
1:AA:1505:G:O5'	1:AA:1506:U:C2	2.23	0.55
2:AT:109:VAL:HG12	2:AT:115:VAL:HG21	1.89	0.55
2:AT:140:GLU:HB3	2:AT:481:MET:CA	2.32	0.55
2:AT:552:VAL:HG13	2:AT:553:PRO:HD2	1.89	0.55
2:AT:810:ASP:O	2:AT:816:GLY:HA3	2.06	0.55
3:AB:145:LEU:HA	3:AB:159:ILE:HB	1.88	0.55
5:AD:60:LEU:HD23	5:AD:64:GLU:HG3	1.89	0.55
9:AI:11:LYS:HD3	9:AI:11:LYS:H	1.71	0.55
13:AM:120:ARG:HB2	17:AS:110:GLU:HG3	1.89	0.55
16:AQ:93:ILE:HG13	16:AQ:97:ASN:H	1.72	0.55
18:B3:35:U:H4'	23:BD:48:ALA:CB	2.37	0.55
18:B3:107:U:C2	44:BX:56:THR:HB	2.41	0.55
18:B3:194:A:O3'	31:BL:178:LYS:CA	2.55	0.55
18:B3:382:U:H3	31:BL:11:ARG:HH22	1.54	0.55
18:B3:560:C:O2'	18:B3:561:G:H5'	2.06	0.55
18:B3:677:C:H5'	23:BD:256:LYS:HE2	1.74	0.55
18:B3:1067:A:C5'	25:BF:96:PRO:CD	2.84	0.55
18:B3:1310:U:O4	23:BD:181:LEU:CD1	2.49	0.55
18:B3:1508:C:C5'	39:BT:77:ASP:CB	2.83	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1787:C:O2	18:B3:2882:G:O2'	2.24	0.55
18:B3:1814:G:N3	18:B3:2733:U:C5	2.75	0.55
18:B3:2087:C:C4'	33:BN:78:THR:HB	2.27	0.55
18:B3:2109:U:H5	41:BV:42:ILE:HD13	1.71	0.55
18:B3:2250:G:N2	18:B3:2251:G:H1'	2.22	0.55
18:B3:2291:A:C8	18:B3:2309:C:H5'	2.42	0.55
18:B3:2345:A:C5'	29:BJ:48:LYS:HE3	2.34	0.55
18:B3:2466:G:OP1	41:BV:38:HIS:CG	2.59	0.55
18:B3:2663:U:C2'	18:B3:2816:A:N7	2.70	0.55
18:B3:2737:C:N4	35:BP:61:ARG:CZ	2.60	0.55
18:B3:2778:A:O3'	27:BH:166:ARG:HG3	2.06	0.55
18:B3:2828:G:H2'	22:BC:128:ALA:N	2.13	0.55
19:B4:13:A:HO2'	24:BE:20:PHE:HZ	0.64	0.55
21:BB:172:GLY:N	47:B9:68:TYR:HE1	2.05	0.55
21:BB:236:LEU:HD12	21:BB:236:LEU:N	2.21	0.55
22:BC:41:ALA:H	22:BC:182:LEU:HB3	1.68	0.55
22:BC:72:VAL:HG12	22:BC:73:GLU:N	2.22	0.55
22:BC:75:VAL:HG22	22:BC:76:THR:N	2.17	0.55
22:BC:116:ARG:HD2	22:BC:174:LYS:HG2	1.88	0.55
22:BC:359:ASP:HA	38:BS:14:TYR:HB3	1.84	0.55
23:BD:84:SER:HA	23:BD:97:ARG:CD	2.36	0.55
23:BD:128:THR:HG23	23:BD:247:VAL:HG21	1.88	0.55
23:BD:176:ASP:C	23:BD:205:LEU:HD11	2.27	0.55
23:BD:250:THR:HG22	23:BD:253:ALA:CB	2.35	0.55
24:BE:106:ALA:HA	24:BE:110:LEU:HB2	1.89	0.55
24:BE:146:LEU:HD13	24:BE:163:LEU:HB2	1.89	0.55
27:BH:13:PRO:HD3	27:BH:79:ILE:CG2	2.37	0.55
27:BH:27:VAL:HB	27:BH:33:THR:HG23	1.89	0.55
27:BH:46:THR:HB	27:BH:55:VAL:HG23	1.88	0.55
27:BH:112:ILE:HD11	27:BH:128:VAL:HG23	1.89	0.55
28:BI:58:GLU:CB	28:BI:129:VAL:H	2.19	0.55
28:BI:65:LEU:HD11	28:BI:69:ARG:CB	2.34	0.55
28:BI:98:ARG:HD3	28:BI:98:ARG:N	2.21	0.55
29:BJ:48:LYS:HG2	29:BJ:49:ALA:O	2.06	0.55
29:BJ:103:PHE:H	29:BJ:122:PHE:HB2	1.72	0.55
31:BL:25:ARG:CG	31:BL:26:VAL:H	2.15	0.55
31:BL:88:VAL:HG12	31:BL:89:ASN:N	2.21	0.55
33:BN:115:HIS:CA	33:BN:148:VAL:HG21	2.36	0.55
37:BR:15:LEU:N	37:BR:15:LEU:HD22	2.21	0.55
40:BU:70:ILE:HD13	40:BU:80:VAL:HG21	1.87	0.55
41:BV:81:ILE:O	41:BV:120:VAL:HG22	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:64:LYS:HD3	42:B0:64:LYS:N	2.21	0.55
43:BW:53:GLU:CG	43:BW:54:LEU:H	2.16	0.55
46:BZ:9:THR:HB	46:BZ:19:HIS:HB3	1.88	0.55
47:B9:47:LYS:HE3	47:B9:48:ARG:N	2.22	0.55
1:AA:634:C:C6	16:AQ:92:TYR:CE2	2.95	0.55
1:AA:1176:A:C5	9:AI:108:PHE:CD2	2.95	0.55
1:AA:1220:G:N3	17:AS:77:ARG:CB	2.65	0.55
1:AA:1301:U:HO2'	13:AM:54:LEU:HB3	1.72	0.55
1:AA:1320:C:O2	17:AS:119:PHE:N	2.26	0.55
1:AA:1348:U:C4'	9:AI:134:ARG:CB	2.72	0.55
1:AA:1418:A:C2	18:B3:1989:G:C2	2.88	0.55
3:AB:121:ILE:HA	3:AB:143:ILE:CG1	2.32	0.55
4:AC:11:VAL:HG21	14:AN:33:TYR:O	2.07	0.55
5:AD:106:GLU:OE1	5:AD:115:LYS:HD3	2.07	0.55
6:AE:115:LYS:HB2	6:AE:127:GLY:N	2.22	0.55
9:AI:47:VAL:CG1	9:AI:80:ILE:HG22	2.37	0.55
10:AJ:84:MET:HA	10:AJ:84:MET:HE3	1.88	0.55
11:AK:57:TYR:HE1	11:AK:61:LEU:HD11	1.72	0.55
15:AO:87:LEU:O	15:AO:87:LEU:HD13	2.06	0.55
18:B3:216:A:OP2	41:BV:58:ARG:HD3	2.06	0.55
18:B3:499:G:H4'	33:BN:19:SER:HB2	1.88	0.55
18:B3:538:C:C2'	42:B0:21:HIS:ND1	2.70	0.55
18:B3:707:C:H41	34:BO:72:LYS:HE3	1.72	0.55
18:B3:841:A:N6	33:BN:132:HIS:O	2.31	0.55
18:B3:1088:A:H1'	18:B3:1260:G:H21	1.72	0.55
18:B3:1327:G:N2	18:B3:1329:A:H3'	2.22	0.55
18:B3:1358:A:C2	23:BD:86:GLN:CB	2.90	0.55
18:B3:1784:U:O2	35:BP:77:TYR:CE2	2.60	0.55
18:B3:2164:G:P	20:BA:162:VAL:HG11	2.46	0.55
18:B3:2237:G:H1'	18:B3:2238:A:C8	2.42	0.55
18:B3:2346:C:C5'	29:BJ:47:SER:HA	2.34	0.55
18:B3:2387:U:C3'	36:BQ:88:ARG:HB2	2.36	0.55
18:B3:2662:G:C2'	18:B3:2814:A:C2	2.89	0.55
20:BA:49:PHE:CE1	20:BA:54:LYS:N	2.75	0.55
21:BB:76:ILE:O	21:BB:76:ILE:HG23	2.06	0.55
22:BC:56:VAL:HG21	37:BR:89:ASP:OD1	2.06	0.55
22:BC:110:SER:HB2	22:BC:113:VAL:HG23	1.87	0.55
22:BC:254:TRP:HZ3	22:BC:256:PRO:CB	2.19	0.55
24:BE:88:ILE:HG12	24:BE:89:THR:N	2.22	0.55
26:BG:182:LYS:HD3	26:BG:182:LYS:N	2.22	0.55
27:BH:9:GLN:HA	27:BH:54:LYS:CG	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:40:HIS:CA	32:BM:125:VAL:HG12	2.36	0.55
27:BH:62:ARG:HD2	27:BH:62:ARG:C	2.27	0.55
27:BH:171:ASP:OD2	27:BH:174:LYS:HG2	2.07	0.55
28:BI:101:LYS:O	28:BI:112:GLN:HG3	2.06	0.55
28:BI:121:LYS:N	28:BI:121:LYS:HD3	2.22	0.55
29:BJ:6:ASN:HB3	29:BJ:7:PRO:CD	2.37	0.55
31:BL:26:VAL:O	31:BL:26:VAL:HG12	2.07	0.55
32:BM:81:LYS:HD2	32:BM:82:ALA:N	2.22	0.55
36:BQ:74:VAL:C	36:BQ:89:LEU:HB3	2.28	0.55
37:BR:39:VAL:HG23	37:BR:39:VAL:O	2.06	0.55
37:BR:93:LEU:HD23	38:BS:20:LEU:HB2	1.88	0.55
39:BT:111:THR:O	39:BT:112:LEU:HB2	2.07	0.55
40:BU:35:LEU:HB3	40:BU:39:LEU:HD23	1.88	0.55
46:BZ:67:VAL:HG11	46:BZ:69:LEU:HD22	1.87	0.55
47:B9:25:VAL:O	47:B9:26:LYS:HB2	2.06	0.55
1:AA:115:G:O2'	1:AA:116:A:OP2	2.22	0.54
1:AA:143:A:N7	1:AA:200:G:O2'	2.17	0.54
1:AA:190(E):U:C5	16:AQ:130:ILE:N	2.65	0.54
1:AA:619:U:H2'	5:AD:129:ILE:CD1	2.34	0.54
1:AA:1038:C:H2'	1:AA:1039:C:C6	2.42	0.54
1:AA:1131:G:H1	1:AA:1143:G:N2	2.01	0.54
1:AA:1299:A:C5'	13:AM:27:LYS:HE3	2.37	0.54
1:AA:1346:A:H5"	9:AI:134:ARG:NH2	1.92	0.54
1:AA:1406:U:N1	1:AA:1518:A:H5'	2.17	0.54
1:AA:1483:A:O2'	18:B3:2001:G:C4	2.60	0.54
1:AA:1496:C:O2	1:AA:1518:A:C5	2.60	0.54
1:AA:1497:G:C2'	1:AA:1519:A:N6	2.68	0.54
2:AT:296:ILE:HB	2:AT:297:PRO:HD3	1.88	0.54
5:AD:31:ALA:CB	5:AD:43:TYR:HE1	2.18	0.54
5:AD:101:VAL:C	5:AD:191:ALA:H	2.11	0.54
6:AE:124:ILE:HG23	6:AE:125:ARG:N	2.22	0.54
9:AI:18:VAL:O	9:AI:18:VAL:HG23	2.07	0.54
10:AJ:30:LYS:HB3	10:AJ:33:GLN:HG3	1.90	0.54
10:AJ:50:LEU:HD21	10:AJ:93:LEU:HD12	1.90	0.54
10:AJ:67:THR:HG23	10:AJ:68:ARG:O	2.07	0.54
13:AM:100:THR:CG2	13:AM:105:VAL:HG13	2.37	0.54
18:B3:1103:C:H1'	32:BM:86:MET:HB3	1.88	0.54
18:B3:1289:C:O2'	18:B3:1290:G:H5'	2.07	0.54
18:B3:1304:U:H5"	23:BD:193:TYR:CE1	2.41	0.54
18:B3:1343:C:H2'	23:BD:188:ALA:C	2.16	0.54
18:B3:1367:A:H2'	18:B3:1368:U:O4'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1370:G:O6	33:BN:24:SER:HB3	2.05	0.54
18:B3:1381:A:C5	43:BW:24:PHE:O	2.61	0.54
18:B3:1459:A:O2'	21:BB:20:ARG:NH1	2.40	0.54
18:B3:1495:C:H2'	18:B3:1496:G:C8	2.42	0.54
18:B3:1815:A:C5'	18:B3:2751:C:C6	2.90	0.54
18:B3:2072:G:C6	18:B3:2533:C:H1'	2.42	0.54
18:B3:2337:G:N3	29:BJ:127:TYR:CA	2.69	0.54
18:B3:2413:A:N9	24:BE:175:HIS:N	2.53	0.54
18:B3:2671:U:H5'	22:BC:178:ALA:CA	1.97	0.54
18:B3:2692:G:H8	18:B3:2693:U:C5	2.25	0.54
18:B3:2717:C:P	22:BC:221:LYS:HE2	2.47	0.54
18:B3:2821:C:O2	22:BC:131:LYS:CE	2.41	0.54
18:B3:2837:U:H4'	22:BC:332:LYS:CD	2.37	0.54
19:B4:49:G:OP2	24:BE:98:ALA:HB3	2.07	0.54
20:BA:55:LEU:CD1	20:BA:157:PHE:CA	2.33	0.54
21:BB:4:ILE:CG2	21:BB:208:HIS:HD2	2.20	0.54
21:BB:187:LYS:HA	21:BB:187:LYS:NZ	2.20	0.54
22:BC:17:PRO:CG	22:BC:19:LYS:HG2	2.37	0.54
22:BC:159:VAL:O	22:BC:179:GLU:HA	2.07	0.54
25:BF:109:ARG:HB3	25:BF:109:ARG:CZ	2.37	0.54
26:BG:107:ARG:HG2	26:BG:108:LEU:HD22	1.85	0.54
26:BG:161:LEU:HD13	31:BL:3:TYR:OH	2.07	0.54
28:BI:43:VAL:HG11	28:BI:138:VAL:HG11	1.88	0.54
29:BJ:64:ILE:O	29:BJ:64:ILE:HG23	2.06	0.54
29:BJ:91:ARG:CZ	29:BJ:159:VAL:HG21	2.36	0.54
32:BM:22:VAL:O	32:BM:22:VAL:HG22	2.08	0.54
34:BO:62:VAL:HG11	34:BO:88:THR:N	2.22	0.54
35:BP:28:THR:O	35:BP:28:THR:HG22	2.06	0.54
35:BP:52:LYS:HG2	35:BP:53:ALA:N	2.21	0.54
36:BQ:62:GLY:HA2	36:BQ:78:LYS:HG2	1.89	0.54
37:BR:31:ALA:HA	37:BR:32:ARG:CD	2.30	0.54
39:BT:109:VAL:HG13	39:BT:109:VAL:O	2.07	0.54
40:BU:27:ARG:HE	40:BU:28:ARG:H	1.55	0.54
40:BU:57:LEU:HD12	40:BU:59:VAL:HG12	1.88	0.54
41:BV:18:LYS:HD2	41:BV:18:LYS:C	2.28	0.54
45:BY:12:ASN:C	45:BY:13:LYS:HE3	2.27	0.54
46:BZ:66:LYS:H	46:BZ:86:ARG:HD3	1.72	0.54
47:B9:22:ARG:HD2	47:B9:24:GLN:CB	2.36	0.54
1:AA:33:A:H2'	1:AA:34:C:H6	1.72	0.54
1:AA:118:U:H1'	1:AA:122:G:C2'	2.37	0.54
1:AA:449:C:C4'	5:AD:131:GLN:C	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:642:A:O2'	8:AH:104:THR:CG2	2.56	0.54
1:AA:778:G:H3'	11:AK:126:ARG:CD	2.36	0.54
1:AA:865:A:H4'	1:AA:1079:G:C4	2.42	0.54
1:AA:953:G:H2'	1:AA:954:G:O4'	2.07	0.54
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.06	0.54
1:AA:1340:A:O2'	9:AI:141:TYR:CZ	2.60	0.54
2:AT:748:ASN:ND2	18:B3:2508:C:O2	2.40	0.54
3:AB:67:PRO:HG3	3:AB:180:VAL:HG13	1.89	0.54
3:AB:92:THR:CG2	3:AB:181:LEU:HD21	2.26	0.54
6:AE:138:ILE:CD1	6:AE:217:ILE:HD11	2.36	0.54
7:AG:112:ILE:HD11	7:AG:189:ILE:HB	1.87	0.54
8:AH:52:ILE:HD13	8:AH:61:VAL:HG23	1.89	0.54
9:AI:39:GLU:HB2	9:AI:42:ILE:HD11	1.88	0.54
12:AL:101:GLU:CB	12:AL:132:LEU:HD23	2.37	0.54
18:B3:27:U:O2'	18:B3:1318:A:C3'	2.54	0.54
18:B3:80:A:H5'	40:BU:74:TYR:HH	1.71	0.54
18:B3:344:C:H2'	18:B3:345:G:O4'	2.07	0.54
18:B3:944:G:H4'	25:BF:97:LYS:HD3	1.69	0.54
18:B3:1164:U:C6	30:BK:51:LYS:CA	2.88	0.54
18:B3:1244:U:OP2	32:BM:14:LEU:HD13	2.06	0.54
18:B3:1343:C:OP1	23:BD:192:LYS:CB	2.55	0.54
18:B3:1523:G:C6	18:B3:1524:U:O4	2.60	0.54
18:B3:1567:A:P	35:BP:57:HIS:HD1	2.31	0.54
18:B3:1806:G:C4	18:B3:2884:G:C1'	2.90	0.54
18:B3:2437:A:O3'	46:BZ:14:LYS:HB2	2.06	0.54
18:B3:2671:U:O5'	22:BC:178:ALA:CB	2.52	0.54
19:B4:2:U:O5'	19:B4:3:A:H5'	2.07	0.54
19:B4:36:C:H5'	24:BE:182:GLY:HA3	1.88	0.54
19:B4:47:A:OP2	24:BE:152:ARG:HG2	2.06	0.54
19:B4:69:U:O4'	24:BE:14:SER:CB	2.56	0.54
20:BA:49:PHE:CD1	20:BA:157:PHE:CD1	2.94	0.54
20:BA:201:VAL:HG23	20:BA:201:VAL:O	2.06	0.54
21:BB:102:PRO:HB3	21:BB:160:ASP:C	2.28	0.54
21:BB:182:GLY:O	21:BB:183:ARG:HB2	2.07	0.54
22:BC:49:LYS:NZ	22:BC:333:ARG:H	2.05	0.54
22:BC:102:THR:HG21	22:BC:141:ALA:HA	1.89	0.54
22:BC:228:VAL:HA	22:BC:232:TRP:CZ2	2.42	0.54
22:BC:365:GLY:HA2	38:BS:35:LYS:CG	2.35	0.54
23:BD:221:VAL:HG12	23:BD:224:VAL:HG12	1.88	0.54
27:BH:25:VAL:HG13	27:BH:26:LYS:N	2.21	0.54
28:BI:15:LYS:HB3	28:BI:16:PRO:HD3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:56:GLU:HG3	28:BI:57:LEU:H	1.72	0.54
28:BI:86:HIS:CG	28:BI:138:VAL:HG11	2.40	0.54
29:BJ:91:ARG:HB2	29:BJ:95:PHE:CZ	2.42	0.54
31:BL:43:ARG:CB	31:BL:46:LYS:HE3	2.37	0.54
31:BL:193:GLN:H	31:BL:193:GLN:NE2	2.05	0.54
32:BM:2:VAL:CG1	32:BM:32:ILE:HD11	2.37	0.54
32:BM:58:ARG:HD3	32:BM:58:ARG:C	2.26	0.54
37:BR:54:LEU:HD21	37:BR:81:GLN:HB3	1.87	0.54
37:BR:77:ILE:HD12	37:BR:77:ILE:C	2.27	0.54
37:BR:96:GLU:CG	37:BR:97:ASP:H	2.03	0.54
40:BU:27:ARG:HH21	40:BU:28:ARG:HB3	1.72	0.54
41:BV:123:ILE:HD13	41:BV:123:ILE:N	2.19	0.54
46:BZ:82:LEU:H	46:BZ:82:LEU:CD2	2.20	0.54
47:B9:22:ARG:HE	47:B9:25:VAL:H	1.54	0.54
1:AA:125:U:C4'	1:AA:291:C:C4'	2.77	0.54
1:AA:190(C):C:H41	16:AQ:112:PRO:HG3	1.72	0.54
1:AA:190(F):G:H4'	1:AA:190(G):G:OP2	2.07	0.54
1:AA:620:C:P	5:AD:129:ILE:CD1	2.96	0.54
1:AA:989:C:O2	1:AA:1015:A:C2'	2.55	0.54
1:AA:1068:G:C5'	1:AA:1388:C:H5"	2.37	0.54
1:AA:1148:U:H4'	9:AI:9:PHE:HZ	1.71	0.54
1:AA:1182:G:O2'	1:AA:1183:A:OP2	2.20	0.54
1:AA:1300:G:HO2'	1:AA:1301:U:H6	1.52	0.54
2:AT:108:HIS:CE1	2:AT:540:ILE:HB	2.42	0.54
3:AB:41:PRO:O	3:AB:42:ASP:HB2	2.08	0.54
5:AD:95:TYR:HB3	5:AD:193:GLU:CB	2.30	0.54
6:AE:210:LEU:HD12	6:AE:210:LEU:C	2.28	0.54
8:AH:102:ILE:HG23	8:AH:125:LEU:HB2	1.89	0.54
10:AJ:116:VAL:HG12	10:AJ:117:VAL:N	2.22	0.54
12:AL:104:LEU:N	12:AL:104:LEU:HD12	2.22	0.54
13:AM:50:ALA:CA	13:AM:68:ARG:HD2	2.37	0.54
14:AN:23:CYS:HB3	14:AN:37:ILE:CA	2.26	0.54
15:AO:84:PRO:O	15:AO:88:TYR:HD1	1.90	0.54
18:B3:170:U:O4'	46:BZ:49:PHE:CD2	2.60	0.54
18:B3:370:G:O2'	18:B3:371:U:H5'	2.07	0.54
18:B3:919:U:O2'	41:BV:39:HIS:N	2.31	0.54
18:B3:1100:G:OP2	19:B4:87:U:C2	2.60	0.54
18:B3:1397:C:HO2'	35:BP:23:LEU:HD22	1.72	0.54
18:B3:1450:C:O2'	18:B3:1494:A:H5'	2.07	0.54
18:B3:1718:G:P	35:BP:20:LYS:NZ	2.79	0.54
18:B3:1855:G:C5	21:BB:149:LEU:CB	2.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1872:C:H5	21:BB:19:THR:HG1	1.54	0.54
18:B3:2334:C:N4	29:BJ:115:TYR:HB3	2.21	0.54
20:BA:85:MET:HG2	20:BA:89:ASP:OD1	2.07	0.54
21:BB:28:LEU:HD11	21:BB:100:VAL:HG21	1.88	0.54
21:BB:134:ILE:HD12	21:BB:134:ILE:C	2.27	0.54
22:BC:47:GLY:O	22:BC:48:TYR:HD1	1.89	0.54
22:BC:69:ARG:HG2	37:BR:89:ASP:HA	1.88	0.54
22:BC:81:PRO:HB2	22:BC:82:PRO:CA	2.36	0.54
22:BC:98:LEU:HD22	22:BC:98:LEU:H	1.73	0.54
22:BC:259:VAL:CG2	22:BC:261:TRP:HB3	2.38	0.54
22:BC:357:TRP:CA	38:BS:15:PRO:CB	2.81	0.54
23:BD:33:ILE:HD12	23:BD:33:ILE:N	2.23	0.54
23:BD:73:ILE:CG2	23:BD:75:ARG:HB2	2.35	0.54
25:BF:241:SER:C	25:BF:242:MET:HG2	2.27	0.54
27:BH:124:ARG:HA	27:BH:124:ARG:CZ	2.37	0.54
28:BI:4:ARG:HG3	28:BI:5:PRO:HA	1.88	0.54
28:BI:79:VAL:O	28:BI:79:VAL:HG13	2.05	0.54
29:BJ:11:LEU:HD12	29:BJ:11:LEU:N	2.22	0.54
29:BJ:80:GLU:O	29:BJ:81:ARG:HB2	2.08	0.54
30:BK:94:LYS:HE2	30:BK:95:ASP:OD1	2.08	0.54
30:BK:113:ALA:HA	30:BK:132:ILE:HD11	1.90	0.54
30:BK:114:ARG:O	30:BK:117:ARG:HG3	2.07	0.54
31:BL:23:ARG:HB3	31:BL:23:ARG:NH1	2.22	0.54
31:BL:99:ALA:CA	31:BL:168:LYS:HD3	2.37	0.54
34:BO:84:VAL:O	34:BO:84:VAL:HG13	2.07	0.54
35:BP:3:LEU:HD12	35:BP:31:ILE:CD1	2.33	0.54
35:BP:86:ALA:O	35:BP:87:ARG:HG3	2.07	0.54
37:BR:74:MET:CG	37:BR:75:PRO:HA	2.36	0.54
37:BR:137:VAL:OXT	37:BR:137:VAL:HG12	2.07	0.54
39:BT:75:VAL:HG23	39:BT:75:VAL:O	2.06	0.54
40:BU:100:HIS:CD2	40:BU:104:LEU:HB3	2.43	0.54
41:BV:6:LYS:HD3	41:BV:6:LYS:H	1.73	0.54
42:B0:54:LYS:O	42:B0:57:TYR:HD1	1.91	0.54
46:BZ:67:VAL:HG22	46:BZ:87:CYS:SG	2.46	0.54
1:AA:21:G:C3'	1:AA:885:G:P	2.93	0.54
1:AA:35:G:H5'	12:AL:130:VAL:HG21	1.89	0.54
1:AA:144:G:O5'	1:AA:200:G:OP1	2.25	0.54
1:AA:190(D):U:H5"	16:AQ:138:VAL:O	2.07	0.54
1:AA:190(E):U:C2	16:AQ:131:SER:CA	2.88	0.54
1:AA:254:G:C1'	16:AQ:79:MET:HE2	2.36	0.54
1:AA:336:C:C6	1:AA:1434:A:O4'	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:829:G:HO2'	3:AB:126:ARG:HH22	1.49	0.54
1:AA:950:U:H5	13:AM:140:THR:HB	1.66	0.54
1:AA:989:C:H5"	1:AA:1013:G:N3	2.09	0.54
1:AA:1044:A:H2'	1:AA:1045:C:H5'	1.90	0.54
1:AA:1151:A:C6	10:AJ:57:ARG:CZ	2.89	0.54
1:AA:1223:C:C5'	17:AS:100:LYS:CE	2.85	0.54
1:AA:1318:A:O2'	17:AS:55:GLY:HA2	2.07	0.54
2:AT:411:VAL:HG12	2:AT:412:ARG:N	2.22	0.54
3:AB:58:LEU:HD12	3:AB:61:ARG:HH22	1.72	0.54
5:AD:86:LEU:HB3	5:AD:96:VAL:CG1	2.34	0.54
6:AE:156:LYS:HG2	8:AH:95:ALA:HB1	1.90	0.54
10:AJ:73:GLY:HA2	14:AN:25:SER:N	2.22	0.54
13:AM:92:ILE:CD1	13:AM:123:ARG:NH2	2.70	0.54
17:AS:69:GLU:O	17:AS:70:ASN:HB2	2.08	0.54
18:B3:622:G:C8	42:B0:36:LYS:HD3	2.42	0.54
18:B3:918:G:N3	41:BV:45:ASP:OD1	2.41	0.54
18:B3:953:G:C4'	36:BQ:13:TYR:CD2	2.88	0.54
18:B3:1025:C:C1'	25:BF:104:LEU:CD1	2.86	0.54
18:B3:1381:A:N6	43:BW:24:PHE:C	2.60	0.54
18:B3:1445:G:O3'	39:BT:69:GLU:HB3	2.04	0.54
18:B3:1471:A:H2'	18:B3:1472:C:C6	2.43	0.54
18:B3:1875:A:OP2	21:BB:150:PRO:HG3	2.07	0.54
18:B3:2283:G:C5'	28:BI:114:GLY:C	2.71	0.54
18:B3:2520:G:H5'	28:BI:160:PRO:N	2.23	0.54
18:B3:2705:U:H5"	27:BH:122:LYS:NZ	2.09	0.54
18:B3:2717:C:H2'	18:B3:2718:C:C5'	2.32	0.54
19:B4:7:G:C8	24:BE:22:ARG:HD3	2.43	0.54
19:B4:103:A:H2'	19:B4:104:A:H8	1.71	0.54
22:BC:236:LYS:O	22:BC:237:LEU:HB2	2.08	0.54
22:BC:259:VAL:HG22	22:BC:261:TRP:HA	1.88	0.54
22:BC:274:ARG:HG2	22:BC:274:ARG:NH1	2.22	0.54
25:BF:152:PHE:HE2	25:BF:194:PHE:CD1	2.26	0.54
25:BF:153:GLY:CA	25:BF:200:PHE:HB3	2.37	0.54
26:BG:148:LYS:O	26:BG:149:LEU:HD13	2.08	0.54
27:BH:16:VAL:HG11	27:BH:82:VAL:CG1	2.37	0.54
27:BH:89:LYS:O	27:BH:90:MET:HG3	2.06	0.54
27:BH:138:THR:HG23	27:BH:139:ASN:N	2.23	0.54
28:BI:153:ARG:NH1	28:BI:154:ARG:HG3	2.22	0.54
29:BJ:29:LEU:HD22	29:BJ:29:LEU:N	2.22	0.54
29:BJ:121:ILE:HG23	29:BJ:121:ILE:O	2.06	0.54
29:BJ:159:VAL:O	29:BJ:159:VAL:HG13	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:43:ARG:HH22	31:BL:47:ALA:HB2	1.72	0.54
31:BL:96:SER:HB2	31:BL:98:ARG:HB2	1.88	0.54
31:BL:163:LEU:HD13	31:BL:163:LEU:C	2.28	0.54
34:BO:43:PRO:O	34:BO:46:LYS:HB3	2.07	0.54
35:BP:41:ARG:CD	35:BP:44:VAL:HB	2.37	0.54
37:BR:46:LEU:HD22	37:BR:46:LEU:C	2.27	0.54
37:BR:104:ASN:CA	37:BR:110:LYS:HE2	2.37	0.54
38:BS:52:THR:HG22	38:BS:54:LEU:N	2.22	0.54
40:BU:39:LEU:HD12	40:BU:42:GLN:NE2	2.22	0.54
42:B0:42:VAL:HG13	42:B0:43:ARG:N	2.21	0.54
42:B0:76:VAL:HB	42:B0:95:GLU:O	2.07	0.54
43:BW:27:ARG:HB3	43:BW:66:VAL:HG21	1.88	0.54
43:BW:40:LYS:HD2	43:BW:47:ASP:HA	1.89	0.54
1:AA:280:C:H1'	16:AQ:102:ARG:HG2	1.89	0.54
1:AA:474:G:OP1	5:AD:137:GLY:HA2	2.07	0.54
1:AA:1202:G:O2'	1:AA:1203:C:H5'	2.07	0.54
1:AA:1317:C:C5	17:AS:56:PHE:CE1	2.81	0.54
1:AA:1329:A:N7	13:AM:97:ASP:OD1	2.40	0.54
1:AA:1341:U:C6	9:AI:141:TYR:CE1	2.95	0.54
1:AA:1503:A:O2'	1:AA:1504:G:OP1	2.26	0.54
2:AT:748:ASN:HB2	18:B3:2508:C:H1'	1.88	0.54
3:AB:86:LEU:HD12	3:AB:87:LYS:HA	1.89	0.54
3:AB:120:VAL:O	3:AB:143:ILE:HG12	2.07	0.54
4:AC:131:LYS:NZ	4:AC:191:PRO:HD2	2.22	0.54
5:AD:119:ALA:HB1	5:AD:124:HIS:HB3	1.90	0.54
6:AE:112:LEU:HD13	6:AE:112:LEU:C	2.28	0.54
6:AE:217:ILE:HG13	8:AH:98:PHE:CE1	2.33	0.54
8:AH:85:ILE:O	8:AH:85:ILE:HG23	2.07	0.54
8:AH:104:THR:OG1	8:AH:125:LEU:HD21	2.08	0.54
9:AI:51:LEU:CD2	9:AI:58:LYS:HZ2	2.17	0.54
13:AM:28:ILE:HG23	13:AM:29:VAL:N	2.23	0.54
17:AS:64:LYS:HD3	17:AS:64:LYS:C	2.27	0.54
17:AS:115:TYR:HB2	17:AS:118:GLU:HG3	1.90	0.54
18:B3:68:U:H4'	44:BX:51:ILE:O	2.07	0.54
18:B3:124:C:OP2	39:BT:87:MET:O	2.26	0.54
18:B3:721:A:C5'	34:BO:71:LEU:H	2.17	0.54
18:B3:750:A:O4'	23:BD:116:GLU:CD	2.46	0.54
18:B3:778:C:OP1	45:BY:9:LYS:HE3	2.07	0.54
18:B3:844:A:C4'	33:BN:133:GLY:HA3	2.37	0.54
18:B3:1164:U:C5	30:BK:49:ALA:HA	2.43	0.54
18:B3:1382:G:H2'	43:BW:29:PRO:HG2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1593:C:P	35:BP:116:LYS:HB2	2.40	0.54
18:B3:2038:A:OP1	37:BR:47:ASN:ND2	2.39	0.54
18:B3:2283:G:OP2	28:BI:115:MET:HB2	2.06	0.54
18:B3:2328:U:P	24:BE:153:THR:HG21	2.45	0.54
18:B3:2347:C:H2'	29:BJ:17:VAL:HG21	1.90	0.54
18:B3:2709:G:O2'	37:BR:125:LEU:HD22	2.08	0.54
18:B3:2738:G:H4'	35:BP:62:THR:C	2.28	0.54
18:B3:2828:G:P	22:BC:129:PHE:CD1	3.01	0.54
21:BB:43:ILE:C	21:BB:43:ILE:HD12	2.28	0.54
21:BB:103:LEU:HD13	21:BB:103:LEU:C	2.28	0.54
21:BB:179:LEU:HD12	21:BB:179:LEU:H	1.72	0.54
21:BB:244:LEU:C	21:BB:244:LEU:HD13	2.27	0.54
22:BC:83:VAL:HG12	22:BC:84:VAL:N	2.22	0.54
22:BC:286:LYS:HD3	22:BC:286:LYS:H	1.71	0.54
23:BD:38:PHE:HZ	23:BD:241:ALA:N	2.06	0.54
23:BD:73:ILE:HG13	23:BD:75:ARG:CB	2.37	0.54
23:BD:82:GLY:HA2	23:BD:83:ARG:NH2	2.23	0.54
24:BE:65:ILE:HG23	24:BE:66:SER:N	2.22	0.54
24:BE:95:TRP:CB	24:BE:99:TYR:HE2	2.16	0.54
25:BF:101:VAL:O	25:BF:101:VAL:HG13	2.07	0.54
25:BF:153:GLY:HA2	25:BF:200:PHE:HB3	1.90	0.54
26:BG:105:LYS:HG3	26:BG:107:ARG:HH22	1.69	0.54
26:BG:162:VAL:HA	26:BG:165:LEU:HD21	1.86	0.54
27:BH:90:MET:CB	27:BH:181:VAL:HA	2.36	0.54
28:BI:166:ILE:HD12	28:BI:166:ILE:C	2.27	0.54
29:BJ:78:ILE:C	29:BJ:78:ILE:HD12	2.27	0.54
29:BJ:140:ARG:NH1	29:BJ:141:LYS:H	2.05	0.54
31:BL:32:LYS:HG2	31:BL:36:HIS:ND1	2.21	0.54
32:BM:119:VAL:HG22	32:BM:120:PRO:CD	2.38	0.54
34:BO:130:ARG:NH1	34:BO:132:PRO:HB3	2.21	0.54
36:BQ:11:THR:HG23	36:BQ:12:ARG:N	2.12	0.54
36:BQ:85:LEU:O	36:BQ:87:LYS:HG3	2.07	0.54
38:BS:22:VAL:HG22	38:BS:23:ARG:O	2.06	0.54
40:BU:30:LEU:HB3	40:BU:78:PHE:CD2	2.42	0.54
40:BU:86:THR:CB	40:BU:97:ILE:HG23	2.37	0.54
41:BV:25:ARG:HE	41:BV:25:ARG:N	2.06	0.54
41:BV:63:GLN:HG3	41:BV:64:GLN:N	2.22	0.54
41:BV:101:ILE:HG22	41:BV:103:THR:H	1.72	0.54
42:B0:27:ARG:NH1	42:B0:28:VAL:HA	2.21	0.54
43:BW:31:ALA:HB1	43:BW:58:ILE:CD1	2.33	0.54
43:BW:41:LEU:HG	43:BW:41:LEU:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BX:32:LYS:O	44:BX:35:LYS:HB3	2.08	0.54
44:BX:46:THR:O	44:BX:50:SER:HB2	2.08	0.54
46:BZ:73:CYS:H	46:BZ:79:ARG:CG	2.14	0.54
1:AA:25:C:O4'	12:AL:109:ARG:CZ	2.54	0.54
1:AA:67:C:H2'	1:AA:70:G:C8	2.41	0.54
1:AA:118:U:O2	1:AA:123:C:O4'	2.25	0.54
1:AA:143:A:OP2	1:AA:201:C:C1'	2.55	0.54
1:AA:597:G:H21	8:AH:88:TRP:HZ2	1.52	0.54
1:AA:924:C:H5'	1:AA:1398:A:N7	2.23	0.54
1:AA:985:C:H42	17:AS:79:HIS:CE1	2.26	0.54
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.72	0.54
1:AA:1321:C:O5'	17:AS:118:GLU:HA	2.06	0.54
1:AA:1402:C:O2	1:AA:1500:A:N1	2.40	0.54
2:AT:108:HIS:CB	2:AT:536:LEU:HG	2.15	0.54
3:AB:109:TYR:CZ	3:AB:114:PHE:HB3	2.42	0.54
4:AC:150:LYS:O	4:AC:151:PHE:HB2	2.08	0.54
5:AD:28:LEU:O	5:AD:29:LYS:HB2	2.08	0.54
7:AG:215:GLU:OE1	7:AG:215:GLU:HA	2.07	0.54
8:AH:13:ILE:HG22	8:AH:77:ARG:NH2	2.23	0.54
8:AH:26:ILE:HD13	8:AH:37:LEU:HD21	1.89	0.54
9:AI:111:TYR:HB3	9:AI:114:THR:OG1	2.08	0.54
12:AL:125:VAL:O	12:AL:125:VAL:HG13	2.08	0.54
13:AM:72:ILE:HG23	13:AM:73:MET:N	2.23	0.54
13:AM:141:THR:O	13:AM:141:THR:HG22	2.05	0.54
18:B3:71:G:H22	44:BX:56:THR:CG2	2.21	0.54
18:B3:749:C:C2'	23:BD:116:GLU:OE1	2.56	0.54
18:B3:751:U:OP1	23:BD:112:VAL:CA	2.50	0.54
18:B3:1096:U:HO2'	25:BF:213:TRP:HZ3	0.78	0.54
18:B3:1117:A:C2'	18:B3:1227:C:O4'	2.47	0.54
18:B3:1181:A:O4'	30:BK:106:LEU:O	2.25	0.54
18:B3:1875:A:H5"	21:BB:127:ARG:HH21	1.60	0.54
18:B3:2350:G:P	29:BJ:139:ARG:CD	2.91	0.54
18:B3:2434:A:P	46:BZ:35:PHE:CD1	3.01	0.54
18:B3:2458:U:P	46:BZ:84:LEU:N	2.70	0.54
18:B3:2718:C:P	22:BC:331:ARG:HH21	2.29	0.54
18:B3:2769:C:H2'	18:B3:2770:G:O4'	2.07	0.54
19:B4:37:C:H1'	24:BE:154:THR:HG22	1.90	0.54
20:BA:165:LEU:HD12	20:BA:165:LEU:C	2.28	0.54
20:BA:180:VAL:O	20:BA:184:LEU:HG	2.07	0.54
21:BB:47:ILE:HD13	21:BB:47:ILE:N	2.18	0.54
21:BB:79:GLU:O	47:B9:64:ALA:CB	2.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:122:ARG:HG3	21:BB:123:GLY:O	2.08	0.54
22:BC:19:LYS:HA	22:BC:19:LYS:NZ	2.21	0.54
22:BC:48:TYR:C	22:BC:78:VAL:HG13	2.28	0.54
22:BC:88:VAL:HG22	22:BC:157:VAL:HG21	1.89	0.54
22:BC:94:THR:HB	22:BC:95:PRO:CA	2.32	0.54
22:BC:282:TYR:CE2	22:BC:324:LYS:HB3	2.42	0.54
23:BD:245:ARG:HH11	23:BD:246:PHE:N	2.06	0.54
25:BF:101:VAL:HG21	25:BF:125:LEU:HB3	1.88	0.54
25:BF:117:LYS:HE3	25:BF:118:VAL:H	1.73	0.54
25:BF:152:PHE:CB	25:BF:200:PHE:HD2	2.20	0.54
26:BG:157:ASP:C	26:BG:159:ILE:H	2.09	0.54
27:BH:40:HIS:HE1	27:BH:67:ALA:HB1	1.69	0.54
27:BH:126:VAL:HG23	27:BH:127:PRO:CD	2.38	0.54
29:BJ:15:LYS:HZ3	29:BJ:15:LYS:HB2	1.73	0.54
32:BM:126:LEU:HD23	32:BM:126:LEU:N	2.23	0.54
33:BN:104:LYS:C	33:BN:106:LEU:HD13	2.27	0.54
34:BO:69:ARG:NH1	34:BO:92:ARG:HD3	2.13	0.54
34:BO:74:GLU:HB2	34:BO:138:LEU:HG	1.88	0.54
34:BO:81:VAL:HG12	34:BO:138:LEU:CG	2.37	0.54
35:BP:7:LYS:HZ3	35:BP:8:ARG:HH11	1.54	0.54
35:BP:91:GLN:HA	35:BP:94:TRP:HE3	1.72	0.54
36:BQ:62:GLY:HA3	36:BQ:75:ILE:O	2.07	0.54
37:BR:11:PHE:CA	37:BR:86:ARG:HG3	2.38	0.54
39:BT:84:GLN:HG2	39:BT:120:LYS:CA	2.37	0.54
39:BT:106:VAL:HG12	39:BT:125:LEU:CD2	2.37	0.54
40:BU:31:LEU:HD12	40:BU:74:TYR:HB3	1.89	0.54
40:BU:38:GLU:C	40:BU:40:ARG:HE	2.10	0.54
41:BV:131:LYS:HE2	41:BV:134:GLU:OE2	2.07	0.54
42:B0:15:LYS:HD2	42:B0:15:LYS:C	2.23	0.54
1:AA:35:G:H2'	1:AA:36:C:C6	2.42	0.54
1:AA:57:G:C1'	1:AA:368:U:N3	2.71	0.54
1:AA:144:G:O6	1:AA:199:G:C4'	2.56	0.54
1:AA:521:G:C5'	12:AL:89:ASN:H	2.21	0.54
1:AA:551:U:C2	12:AL:47:SER:OG	2.61	0.54
1:AA:556:C:C2'	1:AA:557:G:H5'	2.38	0.54
1:AA:818:G:C3'	1:AA:819:A:C5'	2.83	0.54
1:AA:985:C:N4	17:AS:77:ARG:NH2	2.55	0.54
1:AA:988:G:C5	1:AA:1015:A:C5	2.88	0.54
1:AA:989:C:C6	1:AA:1016:A:N1	2.75	0.54
1:AA:1483:A:C2'	18:B3:2001:G:N3	2.70	0.54
2:AT:138:GLN:N	18:B3:2697:A:H4'	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:141:THR:HG23	2:AT:483:PHE:CG	2.40	0.54
2:AT:154:VAL:HG11	2:AT:337:MET:HB3	1.88	0.54
3:AB:110:ILE:HG23	3:AB:111:THR:N	2.23	0.54
4:AC:20:LEU:HD21	4:AC:76:PHE:CE1	2.43	0.54
4:AC:105:LYS:HB3	4:AC:174:VAL:HG22	1.90	0.54
6:AE:192:VAL:HG11	6:AE:195:VAL:HG11	1.88	0.54
9:AI:30:VAL:CG2	9:AI:66:VAL:HG13	2.30	0.54
10:AJ:33:GLN:OE1	10:AJ:111:GLY:HA3	2.07	0.54
11:AK:73:VAL:O	11:AK:73:VAL:HG12	2.07	0.54
12:AL:34:LEU:HD23	12:AL:35:GLY:H	1.71	0.54
15:AO:75:LYS:HD2	15:AO:76:SER:CA	2.37	0.54
18:B3:473:A:O5'	45:BY:48:TRP:HZ2	1.90	0.54
18:B3:492:C:H4'	33:BN:103:ALA:HB2	1.90	0.54
18:B3:520:A:C5'	18:B3:1322:G:OP1	2.55	0.54
18:B3:777:U:C1'	45:BY:12:ASN:ND2	2.63	0.54
18:B3:894:A:OP2	23:BD:57:HIS:CB	2.56	0.54
18:B3:1132:A:O2'	18:B3:2521:A:C4'	0.83	0.54
18:B3:1183:C:O3'	30:BK:85:LEU:HD12	2.07	0.54
18:B3:1195:G:O2'	18:B3:1196:C:H5'	2.08	0.54
18:B3:1603:A:H5'	18:B3:1605:G:O4'	2.07	0.54
18:B3:1874:U:HO2'	21:BB:125:LEU:HA	1.71	0.54
18:B3:1972:U:C2'	18:B3:1973:A:H5'	2.37	0.54
18:B3:2345:A:H5"	29:BJ:48:LYS:HD3	1.45	0.54
18:B3:2489:G:C3'	18:B3:2490:A:C8	2.88	0.54
18:B3:2545:U:O2'	22:BC:238:PRO:CB	2.51	0.54
18:B3:2566:A:H4'	27:BH:174:LYS:HZ3	1.73	0.54
18:B3:2809:G:C2'	22:BC:16:LEU:O	2.55	0.54
19:B4:7:G:OP1	24:BE:30:TYR:HE1	1.91	0.54
20:BA:75:ASP:HA	20:BA:78:LYS:HE3	1.88	0.54
20:BA:130:LYS:HG3	20:BA:131:ALA:N	2.23	0.54
20:BA:187:VAL:O	20:BA:191:VAL:HG23	2.07	0.54
21:BB:87:ILE:HG23	21:BB:87:ILE:O	2.08	0.54
22:BC:16:LEU:CB	22:BC:17:PRO:HA	2.38	0.54
22:BC:39:PRO:HD3	22:BC:184:GLY:HA3	1.88	0.54
22:BC:143:ILE:HG23	22:BC:147:LEU:CD1	2.38	0.54
22:BC:207:VAL:O	22:BC:208:PHE:HB3	2.07	0.54
22:BC:221:LYS:H	22:BC:221:LYS:CE	2.08	0.54
22:BC:333:ARG:HD2	22:BC:333:ARG:O	2.07	0.54
23:BD:150:VAL:HB	23:BD:251:GLU:HG2	1.90	0.54
23:BD:207:VAL:HG23	23:BD:225:GLU:HG2	1.89	0.54
24:BE:30:TYR:O	24:BE:31:TYR:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:36:LEU:HD12	24:BE:36:LEU:C	2.28	0.54
24:BE:146:LEU:HD11	24:BE:163:LEU:HD12	1.90	0.54
25:BF:102:LEU:O	25:BF:105:LEU:HB2	2.08	0.54
26:BG:151:LEU:H	26:BG:198:ALA:CB	2.20	0.54
27:BH:27:VAL:HG11	27:BH:78:MET:O	2.08	0.54
28:BI:10:ARG:CD	28:BI:160:PRO:HG2	2.18	0.54
31:BL:107:ARG:NH1	31:BL:110:ALA:HA	2.23	0.54
31:BL:146:ARG:O	31:BL:147:TYR:HB3	2.07	0.54
32:BM:72:PHE:C	32:BM:78:ILE:HD11	2.27	0.54
33:BN:44:GLN:C	33:BN:46:TYR:H	2.05	0.54
35:BP:22:TRP:HE3	35:BP:51:LYS:CB	2.16	0.54
35:BP:81:LYS:H	35:BP:81:LYS:HD2	1.73	0.54
36:BQ:51:GLY:HA3	36:BQ:92:ARG:HB2	1.90	0.54
36:BQ:63:VAL:HG22	36:BQ:77:ASN:HB3	1.88	0.54
41:BV:81:ILE:HG22	41:BV:120:VAL:HG13	1.90	0.54
41:BV:97:THR:CB	41:BV:124:VAL:HA	2.37	0.54
42:B0:32:TRP:HH2	42:B0:34:LYS:CD	2.15	0.54
42:B0:111:ARG:O	42:B0:111:ARG:HG3	2.08	0.54
43:BW:18:ARG:HB3	43:BW:27:ARG:NH2	2.23	0.54
1:AA:318:G:HO2'	1:AA:1468:A:C5'	2.20	0.54
1:AA:641:U:C4'	8:AH:106:SER:OG	2.56	0.54
1:AA:939:G:H2'	1:AA:940:C:H6	1.69	0.54
1:AA:978:A:HO2'	17:AS:81:ARG:HG3	1.71	0.54
1:AA:1176:A:H3'	9:AI:107:ALA:C	2.20	0.54
1:AA:1300:G:O5'	13:AM:26:ILE:HD11	2.07	0.54
3:AB:86:LEU:HD12	3:AB:87:LYS:CA	2.37	0.54
3:AB:170:GLY:O	3:AB:174:TYR:HD2	1.91	0.54
4:AC:155:PHE:HB3	4:AC:157:ILE:O	2.08	0.54
7:AG:169:GLN:O	7:AG:173:LEU:HG	2.07	0.54
8:AH:17:GLU:HA	8:AH:64:LEU:HD23	1.89	0.54
14:AN:30:VAL:HG22	14:AN:32:LYS:H	1.73	0.54
18:B3:26:U:O2'	18:B3:1320:U:OP2	2.13	0.54
18:B3:79:G:H5"	40:BU:28:ARG:HB2	1.82	0.54
18:B3:541:C:OP2	42:B0:15:LYS:CE	2.46	0.54
18:B3:635:A:P	23:BD:91:ASN:ND2	2.81	0.54
18:B3:881:C:OP1	18:B3:883:U:H5	1.90	0.54
18:B3:919:U:C2	41:BV:41:ARG:HB3	2.35	0.54
18:B3:952:G:H5"	36:BQ:14:MET:SD	2.47	0.54
18:B3:1330:A:H4'	41:BV:11:ARG:NH1	2.23	0.54
18:B3:1790:C:H2'	18:B3:1791:U:H6	1.73	0.54
18:B3:1875:A:O2'	21:BB:150:PRO:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2312:G:C5'	28:BI:22:TYR:HD1	2.03	0.54
18:B3:2345:A:O3'	29:BJ:64:ILE:HG21	2.00	0.54
18:B3:2526:C:O2'	18:B3:2605:G:P	2.66	0.54
18:B3:2656:G:C5'	22:BC:19:LYS:NZ	2.67	0.54
18:B3:2720:C:P	38:BS:17:ARG:NH1	2.59	0.54
18:B3:2819:C:O3'	22:BC:101:LEU:N	2.19	0.54
19:B4:49:G:H8	24:BE:158:ARG:HD3	0.72	0.54
21:BB:156:VAL:HG23	21:BB:156:VAL:O	2.07	0.54
22:BC:49:LYS:HG2	22:BC:331:ARG:C	2.28	0.54
22:BC:113:VAL:HG12	22:BC:117:PHE:CB	2.37	0.54
22:BC:140:GLY:O	22:BC:144:GLU:HG2	2.07	0.54
22:BC:228:VAL:HB	22:BC:232:TRP:CZ2	2.42	0.54
22:BC:304:ILE:HD13	22:BC:358:ILE:CD1	2.37	0.54
23:BD:215:VAL:CG2	23:BD:218:LEU:HD23	2.34	0.54
24:BE:74:VAL:O	24:BE:74:VAL:HG13	2.07	0.54
24:BE:129:TYR:HE2	24:BE:131:LEU:HB2	1.73	0.54
24:BE:207:TYR:CZ	24:BE:208:MET:HB3	2.42	0.54
25:BF:206:LEU:HG	25:BF:208:ASN:H	1.73	0.54
26:BG:150:VAL:CB	26:BG:198:ALA:HB1	2.36	0.54
27:BH:64:HIS:C	32:BM:127:ARG:HB3	2.28	0.54
27:BH:106:LYS:O	27:BH:111:PHE:HB3	2.08	0.54
28:BI:93:PRO:O	28:BI:125:LEU:HB3	2.08	0.54
28:BI:102:MET:HA	28:BI:102:MET:CE	2.38	0.54
29:BJ:18:LEU:HD12	29:BJ:19:ASN:N	2.23	0.54
30:BK:93:LYS:NZ	30:BK:96:LYS:HD3	2.23	0.54
31:BL:82:LYS:HE2	46:BZ:49:PHE:HB3	1.79	0.54
32:BM:14:LEU:HG	32:BM:121:GLN:OE1	2.07	0.54
32:BM:33:VAL:CG1	32:BM:102:LYS:HB2	2.34	0.54
33:BN:66:ILE:HG12	33:BN:79:LYS:HD3	1.89	0.54
34:BO:81:VAL:HG12	34:BO:138:LEU:HD13	1.88	0.54
35:BP:16:VAL:CB	35:BP:20:LYS:HE2	2.37	0.54
35:BP:137:LEU:HA	35:BP:140:HIS:ND1	2.23	0.54
36:BQ:97:LYS:HE3	36:BQ:98:HIS:CE1	2.43	0.54
37:BR:9:THR:O	37:BR:11:PHE:HD2	1.91	0.54
37:BR:19:VAL:HG22	37:BR:20:GLY:N	2.23	0.54
37:BR:60:ALA:H	37:BR:74:MET:HB3	1.70	0.54
39:BT:84:GLN:HG2	39:BT:121:ALA:N	2.23	0.54
40:BU:43:TYR:OH	40:BU:48:LEU:HD11	2.08	0.54
42:B0:17:PHE:O	42:B0:18:LYS:HD3	2.08	0.54
42:B0:54:LYS:N	42:B0:54:LYS:HD3	2.22	0.54
42:B0:83:GLU:O	42:B0:85:LEU:HD22	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:69:G:H2'	1:AA:171:A:C5	2.40	0.54
1:AA:190(E):U:P	16:AQ:137:ASN:CB	2.93	0.54
1:AA:619:U:H5'	5:AD:132:ARG:HG2	1.89	0.54
1:AA:714:G:O6	11:AK:123:ASP:N	2.34	0.54
1:AA:778:G:O3'	11:AK:127:LYS:O	2.26	0.54
1:AA:919:A:H5'	1:AA:1079:G:H22	1.71	0.54
1:AA:1346:A:H4'	1:AA:1347:G:O5'	2.08	0.54
4:AC:79:ALA:HB3	4:AC:80:PRO:CD	2.36	0.54
8:AH:36:PHE:HD1	8:AH:102:ILE:HD13	1.65	0.54
8:AH:75:SER:HB3	8:AH:76:PRO:CD	2.38	0.54
15:AO:107:ASP:OD2	15:AO:110:ALA:HB2	2.07	0.54
18:B3:27:U:O4'	18:B3:1319:G:H3'	2.06	0.54
18:B3:166:A:H5"	41:BV:35:GLY:H	1.73	0.54
18:B3:187:A:H3'	18:B3:188:C:C6	2.43	0.54
18:B3:518:G:C5'	18:B3:1338:U:C2'	2.60	0.54
18:B3:657:G:H4'	23:BD:119:TYR:HE2	1.73	0.54
18:B3:904:U:OP1	41:BV:14:VAL:HA	2.08	0.54
18:B3:1653:A:N6	21:BB:183:ARG:CZ	2.70	0.54
18:B3:2222:C:H5"	20:BA:215:ARG:HH21	1.71	0.54
18:B3:2350:G:N7	29:BJ:115:TYR:CE2	2.76	0.54
18:B3:2526:C:C5'	18:B3:2605:G:H5'	2.27	0.54
18:B3:2840:A:OP1	22:BC:224:GLY:C	2.46	0.54
18:B3:2909:G:O2'	18:B3:2910:A:C5'	2.56	0.54
20:BA:57:ASN:O	20:BA:58:CYS:HB3	2.08	0.54
20:BA:194:LEU:HG	20:BA:196:LYS:H	1.71	0.54
21:BB:203:MET:HE2	21:BB:203:MET:CA	2.37	0.54
22:BC:46:LEU:CD2	22:BC:336:THR:HB	2.38	0.54
22:BC:114:LYS:HG2	22:BC:119:LYS:HD3	1.90	0.54
22:BC:204:VAL:HG23	22:BC:205:ASP:N	2.23	0.54
22:BC:214:ILE:HG23	22:BC:339:LYS:O	2.07	0.54
23:BD:256:LYS:HG2	23:BD:259:GLN:CB	2.35	0.54
24:BE:42:ALA:HB2	24:BE:49:TYR:CD1	2.43	0.54
24:BE:87:GLY:HA2	24:BE:222:LEU:HD23	1.88	0.54
25:BF:233:GLU:OE1	25:BF:233:GLU:HA	2.06	0.54
27:BH:39:LYS:HD3	27:BH:39:LYS:C	2.28	0.54
27:BH:104:VAL:HG22	27:BH:105:GLU:H	1.73	0.54
27:BH:129:ARG:HD2	27:BH:156:GLN:HE22	1.73	0.54
28:BI:139:ARG:N	28:BI:139:ARG:HD3	2.23	0.54
29:BJ:95:PHE:HB3	29:BJ:101:PHE:CA	2.38	0.54
31:BL:103:GLU:HG2	31:BL:104:ARG:CZ	2.37	0.54
32:BM:128:LEU:CB	32:BM:131:GLY:HA3	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:35:ILE:HD13	33:BN:35:ILE:N	2.19	0.54
34:BO:42:ALA:CB	34:BO:134:GLY:H	2.17	0.54
34:BO:98:LYS:HB2	34:BO:98:LYS:NZ	2.23	0.54
36:BQ:42:ILE:O	36:BQ:43:LYS:HG3	2.08	0.54
36:BQ:74:VAL:O	36:BQ:89:LEU:HB3	2.07	0.54
36:BQ:77:ASN:HA	36:BQ:87:LYS:HB3	1.89	0.54
36:BQ:91:LEU:HD12	36:BQ:91:LEU:C	2.27	0.54
37:BR:23:MET:SD	37:BR:34:LEU:HD21	2.47	0.54
37:BR:70:ARG:NH2	37:BR:71:LYS:HB2	2.23	0.54
38:BS:6:ASP:OD1	38:BS:13:ILE:HG12	2.08	0.54
40:BU:58:VAL:HG13	40:BU:59:VAL:N	2.22	0.54
46:BZ:64:THR:HG1	46:BZ:86:ARG:HB3	1.73	0.54
46:BZ:66:LYS:N	46:BZ:86:ARG:HD3	2.22	0.54
1:AA:26:A:N6	1:AA:558:G:H1'	2.22	0.54
1:AA:545:C:C5'	5:AD:66:ASP:OD2	2.56	0.54
1:AA:620:C:H2'	1:AA:621:A:O4'	2.08	0.54
1:AA:1240:U:C4'	7:AG:188:THR:CG2	2.86	0.54
1:AA:1314:C:C5	17:AS:48:GLY:O	2.61	0.54
2:AT:140:GLU:CD	2:AT:481:MET:HA	2.29	0.54
2:AT:464:LEU:CD1	2:AT:510:ARG:N	2.62	0.54
3:AB:32:GLN:HG3	3:AB:32:GLN:O	2.07	0.54
3:AB:108:ASN:ND2	3:AB:111:THR:HB	2.23	0.54
5:AD:99:LEU:HG	5:AD:107:ARG:N	2.19	0.54
5:AD:116:LEU:HB2	5:AD:118:LEU:CD2	2.38	0.54
7:AG:198:ILE:HG23	7:AG:199:ASN:N	2.22	0.54
9:AI:100:SER:OG	9:AI:116:LEU:HD13	2.08	0.54
10:AJ:70:THR:HB	14:AN:40:GLN:CA	2.37	0.54
11:AK:56:PRO:CD	11:AK:88:THR:HG21	2.34	0.54
12:AL:52:ILE:HD12	12:AL:52:ILE:C	2.28	0.54
18:B3:27:U:O2	18:B3:1318:A:N6	2.35	0.54
18:B3:37:A:H2'	18:B3:38:G:C8	2.43	0.54
18:B3:49:A:C2	18:B3:113:A:C4	2.95	0.54
18:B3:88:G:H2'	18:B3:89:G:C8	2.43	0.54
18:B3:182:G:O2'	31:BL:158:ARG:CZ	2.56	0.54
18:B3:646:G:H2'	18:B3:647:U:H6	1.73	0.54
18:B3:646:G:C5'	23:BD:106:ARG:NH2	2.70	0.54
18:B3:1381:A:C6	43:BW:24:PHE:O	2.59	0.54
18:B3:2337:G:P	29:BJ:103:PHE:CA	2.96	0.54
18:B3:2424:U:H4'	36:BQ:7:TYR:HD2	1.71	0.54
18:B3:2560:C:O2'	18:B3:2777:G:O4'	2.25	0.54
18:B3:2681:A:N6	18:B3:2714:U:H4'	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:28:U:OP2	24:BE:56:THR:OG1	2.16	0.54
19:B4:86:G:N9	25:BF:220:LYS:N	2.54	0.54
20:BA:9:VAL:CG2	20:BA:180:VAL:HG13	2.31	0.54
21:BB:10:GLY:O	21:BB:15:PHE:HD2	1.91	0.54
21:BB:57:LEU:HB3	21:BB:74:ILE:HG23	1.90	0.54
21:BB:162:ARG:HH11	21:BB:163:GLY:CA	2.20	0.54
21:BB:187:LYS:C	21:BB:190:LEU:HD22	2.27	0.54
22:BC:92:VAL:HB	22:BC:101:LEU:CD2	2.36	0.54
22:BC:105:TRP:CZ2	22:BC:138:GLN:HB3	2.42	0.54
22:BC:188:SER:HA	22:BC:191:VAL:HG22	1.90	0.54
22:BC:281:ILE:O	22:BC:281:ILE:HG23	2.08	0.54
23:BD:106:ARG:HD2	23:BD:108:TRP:CG	2.43	0.54
23:BD:232:LEU:HB2	23:BD:256:LYS:HZ3	1.72	0.54
25:BF:82:LEU:HD22	25:BF:82:LEU:C	2.28	0.54
26:BG:111:GLU:HB3	26:BG:213:LEU:CD1	2.38	0.54
26:BG:130:ALA:HB3	26:BG:202:VAL:HB	1.90	0.54
26:BG:152:ILE:HD11	26:BG:162:VAL:HB	1.89	0.54
27:BH:40:HIS:HE1	32:BM:127:ARG:NH1	1.94	0.54
27:BH:63:LYS:CB	32:BM:131:GLY:N	2.70	0.54
27:BH:77:ASN:ND2	27:BH:151:VAL:HB	2.15	0.54
28:BI:98:ARG:HH21	28:BI:110:ARG:HB3	1.73	0.54
29:BJ:95:PHE:HB3	29:BJ:101:PHE:N	2.23	0.54
31:BL:137:GLN:HG3	31:BL:137:GLN:O	2.07	0.54
32:BM:128:LEU:HB3	32:BM:131:GLY:N	2.23	0.54
35:BP:21:VAL:HA	35:BP:22:TRP:CE3	2.43	0.54
36:BQ:76:ILE:HG12	36:BQ:78:LYS:C	2.29	0.54
36:BQ:77:ASN:HA	36:BQ:87:LYS:CB	2.38	0.54
37:BR:15:LEU:HD12	37:BR:52:ALA:C	2.28	0.54
39:BT:59:TYR:OH	44:BX:55:LEU:HD11	1.94	0.54
39:BT:102:TYR:CD2	39:BT:104:VAL:HG23	2.43	0.54
40:BU:99:LEU:HD12	40:BU:99:LEU:H	1.73	0.54
41:BV:34:ALA:HB3	41:BV:43:ASN:HB2	1.90	0.54
41:BV:74:LEU:HD11	41:BV:117:ILE:HG21	1.90	0.54
47:B9:35:ARG:HD3	47:B9:44:LYS:HG2	1.86	0.54
1:AA:24:U:O2'	12:AL:110:LYS:HE3	2.07	0.53
1:AA:537:G:O5'	12:AL:143:PRO:HG3	2.03	0.53
1:AA:794:A:H2'	1:AA:795:C:C6	2.43	0.53
1:AA:1003:G:C2	1:AA:1003(A):G:C6	2.95	0.53
1:AA:1191:A:H2'	1:AA:1192:C:C6	2.43	0.53
1:AA:1238:A:H5'	1:AA:1336:C:H41	1.73	0.53
1:AA:1250:A:C4'	9:AI:71:GLY:N	2.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.08	0.53
4:AC:105:LYS:HB2	4:AC:172:ARG:HG2	1.89	0.53
5:AD:100:LYS:HG2	5:AD:196:GLU:HA	1.90	0.53
7:AG:111:ARG:CG	9:AI:43:LEU:HD21	2.38	0.53
7:AG:124:THR:HG22	7:AG:126:GLN:H	1.72	0.53
8:AH:43:HIS:HE1	8:AH:111:ASP:HB2	1.72	0.53
9:AI:98:GLU:N	9:AI:102:ASN:C	2.62	0.53
11:AK:42:THR:HG23	11:AK:58:ALA:HB1	1.86	0.53
12:AL:30:LYS:HD2	12:AL:30:LYS:N	2.23	0.53
12:AL:74:VAL:HG23	12:AL:83:VAL:HG22	1.89	0.53
12:AL:100:ASP:CB	12:AL:132:LEU:HG	2.38	0.53
13:AM:35:ILE:HG22	13:AM:36:LYS:N	2.22	0.53
13:AM:66:LEU:HD23	13:AM:66:LEU:C	2.28	0.53
13:AM:88:ARG:NH2	13:AM:111:ASP:HB3	2.23	0.53
13:AM:129:TRP:HZ3	17:AS:121:ILE:CB	2.20	0.53
16:AQ:85:ILE:CD1	16:AQ:124:VAL:HB	2.38	0.53
18:B3:35:U:C4'	23:BD:49:TYR:CA	2.86	0.53
18:B3:618:G:C4	42:B0:49:ASN:N	2.76	0.53
18:B3:1067:A:OP1	25:BF:96:PRO:CB	2.55	0.53
18:B3:1220:U:H2'	18:B3:1221:G:H8	1.73	0.53
18:B3:1287:A:C6	25:BF:201:LEU:HD13	2.43	0.53
18:B3:1398:G:C1'	35:BP:25:PRO:HG2	2.38	0.53
18:B3:1588:G:C6	18:B3:1589:G:N1	2.77	0.53
18:B3:2169:C:C5'	20:BA:28:PHE:HZ	2.09	0.53
18:B3:2668:G:C2'	22:BC:128:ALA:HB1	2.38	0.53
18:B3:2890:A:C2	38:BS:51:TRP:C	2.81	0.53
20:BA:54:LYS:HZ1	20:BA:153:SER:HB2	1.72	0.53
20:BA:57:ASN:HD22	20:BA:155:ILE:HD12	1.68	0.53
20:BA:63:MET:HE2	20:BA:160:LYS:NZ	2.21	0.53
20:BA:162:VAL:HG12	20:BA:163:LEU:N	2.23	0.53
22:BC:39:PRO:HG2	22:BC:182:LEU:HB2	1.86	0.53
22:BC:90:GLY:C	22:BC:101:LEU:HG	2.24	0.53
22:BC:91:TYR:HD1	22:BC:99:ARG:O	1.90	0.53
22:BC:336:THR:HG22	22:BC:337:LEU:N	2.23	0.53
23:BD:137:ARG:HD3	23:BD:242:HIS:HB3	1.89	0.53
23:BD:181:LEU:HD11	23:BD:185:LYS:HG2	1.90	0.53
23:BD:190:LYS:HD3	23:BD:193:TYR:CE1	2.43	0.53
24:BE:105:ILE:HG23	24:BE:106:ALA:N	2.23	0.53
25:BF:172:LEU:HD13	25:BF:172:LEU:C	2.27	0.53
30:BK:93:LYS:HZ1	30:BK:96:LYS:HE2	1.73	0.53
31:BL:43:ARG:CG	31:BL:46:LYS:HE3	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:132:ILE:HG22	31:BL:133:LEU:N	2.22	0.53
33:BN:74:GLU:HG2	33:BN:75:PHE:O	2.08	0.53
33:BN:90:VAL:O	33:BN:93:LEU:HG	2.07	0.53
34:BO:32:LEU:HD11	34:BO:128:ALA:HB1	1.90	0.53
34:BO:40:THR:HG22	34:BO:41:ASP:H	1.72	0.53
37:BR:17:LEU:O	37:BR:52:ALA:HB3	2.08	0.53
40:BU:21:THR:O	40:BU:22:ALA:HB2	2.08	0.53
41:BV:81:ILE:HD11	41:BV:86:ARG:CZ	2.38	0.53
41:BV:132:LEU:HD23	41:BV:132:LEU:N	2.21	0.53
42:B0:103:LYS:H	42:B0:103:LYS:CD	2.21	0.53
44:BX:36:LEU:H	44:BX:36:LEU:CD1	2.18	0.53
46:BZ:15:THR:HB	46:BZ:78:THR:CG2	2.37	0.53
47:B9:28:LEU:HD13	47:B9:28:LEU:N	2.23	0.53
47:B9:31:GLN:O	47:B9:32:GLN:HB2	2.08	0.53
47:B9:72:THR:HG22	47:B9:73:ALA:H	1.73	0.53
1:AA:56:U:O2'	2:AT:67:GLY:N	2.34	0.53
1:AA:532:A:H2'	1:AA:533:A:H5"	1.90	0.53
1:AA:779:C:C4'	11:AK:132:ARG:O	2.54	0.53
1:AA:877:C:O2'	8:AH:3:SER:CB	2.56	0.53
1:AA:888:G:H4'	1:AA:1489:G:C5'	2.37	0.53
1:AA:959:A:C5	17:AS:100:LYS:CB	2.91	0.53
1:AA:988:G:N9	1:AA:1015:A:C5	2.75	0.53
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.43	0.53
1:AA:1316:G:O6	17:AS:50:THR:OG1	2.27	0.53
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.57	0.53
1:AA:1397:C:H4'	1:AA:1398:A:OP2	2.07	0.53
4:AC:67:GLU:O	4:AC:71:LEU:HD13	2.08	0.53
7:AG:116:THR:HG21	7:AG:193:LEU:CB	2.37	0.53
7:AG:122:VAL:HG23	7:AG:123:LEU:H	1.72	0.53
9:AI:12:LYS:HD3	9:AI:78:TYR:CB	2.38	0.53
9:AI:122:ARG:HB3	9:AI:123:PRO:CD	2.33	0.53
10:AJ:88:LYS:HG3	10:AJ:89:ARG:N	2.23	0.53
13:AM:62:THR:HG22	13:AM:63:GLN:N	2.23	0.53
15:AO:73:ILE:CD1	15:AO:88:TYR:HB3	2.37	0.53
18:B3:145:A:H5'	31:BL:137:GLN:CD	2.29	0.53
18:B3:367:G:H4'	18:B3:368:C:OP1	2.07	0.53
18:B3:540:A:OP1	42:B0:18:LYS:N	2.41	0.53
18:B3:765:G:H5'	23:BD:84:SER:OG	2.08	0.53
18:B3:894:A:OP2	23:BD:57:HIS:CD2	2.62	0.53
18:B3:1396:C:C1'	35:BP:2:ASN:HB3	2.37	0.53
18:B3:1504:A:H61	39:BT:73:LYS:NZ	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1708:C:C5'	35:BP:87:ARG:CG	2.86	0.53
18:B3:1784:U:C2	35:BP:77:TYR:HE2	2.23	0.53
18:B3:1900:A:P	21:BB:225:SER:CA	2.94	0.53
18:B3:2151:G:H4'	18:B3:2152:C:OP2	2.07	0.53
18:B3:2671:U:O2'	22:BC:158:ARG:CD	2.52	0.53
18:B3:2737:C:C6	35:BP:60:SER:HB3	2.42	0.53
19:B4:51:A:C4	24:BE:58:LYS:HB2	1.14	0.53
20:BA:24:LYS:NZ	20:BA:25:LYS:HE2	2.24	0.53
22:BC:36:ARG:HB2	22:BC:36:ARG:HH11	1.73	0.53
22:BC:115:ARG:HG3	22:BC:173:LYS:NZ	2.22	0.53
22:BC:118:TYR:HB3	22:BC:132:TYR:HD1	1.73	0.53
22:BC:211:ASN:HD22	22:BC:350:LEU:C	2.11	0.53
24:BE:17:GLN:OE1	36:BQ:19:PHE:CE2	2.61	0.53
25:BF:91:ILE:HD13	25:BF:91:ILE:C	2.29	0.53
25:BF:159:ARG:HD2	25:BF:159:ARG:O	2.09	0.53
25:BF:198:ASN:HB3	25:BF:200:PHE:CE2	2.42	0.53
26:BG:113:ALA:O	26:BG:151:LEU:HB3	2.07	0.53
26:BG:115:VAL:HG21	26:BG:214:VAL:N	2.23	0.53
26:BG:160:GLU:OE1	26:BG:160:GLU:HA	2.07	0.53
27:BH:104:VAL:HG13	27:BH:111:PHE:CD1	2.39	0.53
28:BI:87:LEU:HD13	28:BI:87:LEU:C	2.28	0.53
28:BI:99:ILE:HD12	28:BI:99:ILE:C	2.27	0.53
29:BJ:159:VAL:O	29:BJ:159:VAL:HG22	2.07	0.53
30:BK:18:VAL:H	30:BK:21:GLU:CD	2.12	0.53
31:BL:134:VAL:HG23	31:BL:135:ASP:N	2.23	0.53
33:BN:29:ARG:NH1	33:BN:29:ARG:HB3	2.23	0.53
34:BO:65:SER:O	34:BO:66:ARG:HB3	2.08	0.53
34:BO:82:VAL:N	34:BO:101:VAL:HG11	2.21	0.53
36:BQ:54:HIS:C	36:BQ:55:LYS:HD3	2.28	0.53
37:BR:31:ALA:C	37:BR:32:ARG:HD3	2.28	0.53
37:BR:77:ILE:HG21	37:BR:126:TRP:CZ3	2.44	0.53
39:BT:63:GLU:HA	39:BT:63:GLU:OE1	2.09	0.53
40:BU:90:VAL:HG13	40:BU:91:ASN:N	2.22	0.53
41:BV:69:LYS:N	41:BV:69:LYS:HE3	2.24	0.53
41:BV:124:VAL:HG12	41:BV:125:LYS:N	2.23	0.53
41:BV:142:GLY:O	41:BV:143:VAL:HB	2.07	0.53
1:AA:64:G:O4'	1:AA:98:U:O4	2.05	0.53
1:AA:131:C:C3'	16:AQ:128:ARG:NH1	2.70	0.53
1:AA:318:G:N1	1:AA:1434:A:H2	1.90	0.53
1:AA:370:C:O2'	1:AA:371:G:H5'	2.09	0.53
1:AA:712:A:N1	11:AK:124:SER:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:860:A:H4'	3:AB:133:LYS:NZ	2.23	0.53
1:AA:860:A:H5'	3:AB:133:LYS:NZ	2.24	0.53
1:AA:960:U:O2	1:AA:960:U:H5'	2.08	0.53
1:AA:1038:C:H2'	1:AA:1039:C:H6	1.74	0.53
1:AA:1121:U:H2'	1:AA:1122:U:H6	1.73	0.53
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.08	0.53
1:AA:1184:G:H2'	1:AA:1185:G:H8	1.72	0.53
4:AC:68:LEU:O	4:AC:72:VAL:HG23	2.08	0.53
5:AD:79:ARG:HH21	5:AD:80:LEU:CD2	2.21	0.53
9:AI:51:LEU:O	9:AI:58:LYS:HG2	2.08	0.53
9:AI:54:VAL:HG23	9:AI:55:GLY:N	2.22	0.53
10:AJ:50:LEU:HG	10:AJ:51:VAL:N	2.22	0.53
11:AK:32:LEU:HD23	11:AK:33:SER:N	2.23	0.53
12:AL:117:ILE:O	12:AL:120:VAL:HG22	2.09	0.53
13:AM:50:ALA:HA	13:AM:68:ARG:HD2	1.90	0.53
18:B3:35:U:H5'	23:BD:49:TYR:C	2.28	0.53
18:B3:99:A:N1	40:BU:24:SER:O	2.40	0.53
18:B3:166:A:H62	41:BV:28:PRO:CB	2.21	0.53
18:B3:413:G:H2'	18:B3:414:C:C6	2.44	0.53
18:B3:597:A:O2'	18:B3:598:C:H5'	2.09	0.53
18:B3:672:G:C5'	23:BD:214:ILE:HG23	2.19	0.53
18:B3:783:C:HO2'	21:BB:20:ARG:NH1	2.05	0.53
18:B3:889:C:H2'	18:B3:890:C:C6	2.43	0.53
18:B3:1097:A:OP1	25:BF:213:TRP:CD2	2.61	0.53
18:B3:1133:A:C1'	18:B3:2520:G:N3	2.64	0.53
18:B3:1360:C:H1'	23:BD:88:ALA:N	2.23	0.53
18:B3:1381:A:C8	43:BW:25:LYS:HA	2.42	0.53
18:B3:1415:G:H5"	45:BY:13:LYS:CE	2.11	0.53
18:B3:1428:C:C4'	33:BN:124:GLN:NE2	2.70	0.53
18:B3:2559:C:C4'	18:B3:2799:A:C4'	2.87	0.53
18:B3:2734:G:OP1	35:BP:79:LYS:HD3	2.07	0.53
18:B3:2795:C:O2'	18:B3:2796:U:H5'	2.08	0.53
20:BA:56:PRO:CA	20:BA:155:ILE:CG2	2.80	0.53
21:BB:139:ASN:HB2	21:BB:140:PRO:CD	2.38	0.53
21:BB:224:ILE:CD1	21:BB:225:SER:H	2.20	0.53
22:BC:41:ALA:C	22:BC:180:ILE:HD13	2.28	0.53
22:BC:42:LEU:HD23	22:BC:45:PHE:CE2	2.43	0.53
22:BC:212:GLU:OE1	22:BC:212:GLU:HA	2.07	0.53
22:BC:324:LYS:HE3	22:BC:324:LYS:CA	2.38	0.53
23:BD:214:ILE:CD1	23:BD:214:ILE:H	2.15	0.53
24:BE:75:LEU:HD23	24:BE:76:ALA:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:54:LYS:HD3	27:BH:72:LYS:HD2	1.89	0.53
27:BH:62:ARG:HB3	32:BM:129:LYS:HE2	0.64	0.53
29:BJ:48:LYS:NZ	29:BJ:48:LYS:HB3	2.23	0.53
30:BK:28:LEU:N	30:BK:28:LEU:HD22	2.23	0.53
31:BL:67:ARG:CZ	31:BL:67:ARG:H	2.21	0.53
32:BM:54:HIS:CD2	32:BM:78:ILE:HG13	2.43	0.53
33:BN:39:GLU:HG3	33:BN:42:LYS:N	2.24	0.53
35:BP:42:LYS:H	35:BP:44:VAL:H	1.54	0.53
37:BR:10:LYS:HG2	37:BR:10:LYS:O	2.09	0.53
37:BR:64:LYS:HZ2	37:BR:64:LYS:HA	1.73	0.53
38:BS:19:THR:HG22	38:BS:20:LEU:H	1.72	0.53
42:B0:87:MET:CG	42:B0:118:LYS:H	2.16	0.53
43:BW:49:ARG:O	43:BW:50:LEU:HG	2.08	0.53
43:BW:49:ARG:CZ	43:BW:49:ARG:HA	2.38	0.53
43:BW:77:LYS:HZ2	43:BW:82:GLU:HB3	1.72	0.53
45:BY:10:ARG:HD3	45:BY:10:ARG:O	2.08	0.53
46:BZ:22:HIS:HB3	46:BZ:72:GLU:O	2.08	0.53
1:AA:35:G:C5'	12:AL:130:VAL:CG2	2.86	0.53
1:AA:69:G:O4'	1:AA:174:C:N1	2.41	0.53
1:AA:69:G:OP2	1:AA:172:A:C3'	2.56	0.53
1:AA:403:C:O3'	5:AD:123:HIS:CD2	2.59	0.53
1:AA:411:A:N9	1:AA:413:G:H1'	2.23	0.53
1:AA:924:C:C2	1:AA:1398:A:C2	2.97	0.53
1:AA:1344:C:OP2	9:AI:136:ARG:CZ	2.56	0.53
1:AA:1374:A:C8	7:AG:101:ARG:NH2	2.47	0.53
3:AB:173:TRP:HA	3:AB:176:LEU:CD2	2.39	0.53
8:AH:45:TYR:CD2	8:AH:100:TYR:HE2	2.26	0.53
16:AQ:121:ILE:HD12	16:AQ:121:ILE:N	2.23	0.53
17:AS:83:MET:HG2	17:AS:84:ILE:N	2.23	0.53
18:B3:28:G:P	18:B3:1319:G:H5'	2.48	0.53
18:B3:92:G:O3'	44:BX:43:LYS:HG3	2.09	0.53
18:B3:450:C:C1'	23:BD:47:GLN:OE1	2.57	0.53
18:B3:620:A:O3'	42:B0:40:SER:OG	2.24	0.53
18:B3:817:G:O2'	18:B3:818:A:C8	2.62	0.53
18:B3:951:A:H4'	36:BQ:43:LYS:HG2	1.89	0.53
18:B3:1123:A:C2	18:B3:1129:C:H4'	2.43	0.53
18:B3:1477:C:H5'	18:B3:1868:G:H5"	1.90	0.53
18:B3:1789:G:H5"	18:B3:2880:A:C8	2.43	0.53
18:B3:1789:G:C4'	18:B3:2880:A:N7	2.70	0.53
18:B3:1852:A:O4'	21:BB:236:LEU:HG	2.08	0.53
18:B3:1874:U:O4	21:BB:124:ALA:CB	2.54	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2075:G:H4'	22:BC:255:HIS:NE2	2.23	0.53
18:B3:2413:A:N1	24:BE:145:PHE:HD2	2.06	0.53
20:BA:45:ARG:C	20:BA:47:LYS:H	2.12	0.53
20:BA:117:ILE:HA	20:BA:120:VAL:CG1	2.38	0.53
21:BB:81:VAL:H	47:B9:64:ALA:HB3	1.74	0.53
22:BC:42:LEU:HD21	22:BC:85:VAL:HG13	1.90	0.53
22:BC:81:PRO:CG	22:BC:204:VAL:HG13	2.39	0.53
22:BC:205:ASP:HA	22:BC:208:PHE:CD1	2.43	0.53
23:BD:133:LEU:HD11	23:BD:137:ARG:NE	2.21	0.53
23:BD:215:VAL:HG13	23:BD:215:VAL:O	2.08	0.53
24:BE:39:GLN:HG2	24:BE:145:PHE:CZ	2.43	0.53
24:BE:43:LYS:HE3	24:BE:65:ILE:HD13	1.90	0.53
24:BE:49:TYR:HD1	24:BE:66:SER:N	2.06	0.53
24:BE:111:GLN:HA	24:BE:111:GLN:OE1	2.08	0.53
24:BE:144:VAL:HG12	24:BE:145:PHE:N	2.22	0.53
24:BE:146:LEU:O	24:BE:146:LEU:HD23	2.09	0.53
24:BE:222:LEU:HD13	24:BE:222:LEU:C	2.29	0.53
25:BF:99:ARG:CA	25:BF:102:LEU:HD13	2.38	0.53
25:BF:146:LEU:HD21	25:BF:239:VAL:O	2.08	0.53
25:BF:152:PHE:CE2	25:BF:194:PHE:CD1	2.96	0.53
25:BF:187:ILE:HD13	25:BF:192:PRO:O	2.09	0.53
25:BF:188:ILE:HG23	25:BF:189:THR:N	2.23	0.53
27:BH:11:GLU:CA	27:BH:52:LEU:HB3	2.09	0.53
28:BI:80:SER:HB3	28:BI:83:ASP:CG	2.28	0.53
29:BJ:70:VAL:C	29:BJ:71:ARG:HD3	2.28	0.53
30:BK:91:ASP:OD1	30:BK:101:SER:HB2	2.08	0.53
31:BL:112:LEU:HD23	31:BL:133:LEU:HB3	1.90	0.53
31:BL:122:GLN:HB3	31:BL:126:TYR:O	2.09	0.53
31:BL:139:LYS:HD2	31:BL:139:LYS:C	2.28	0.53
32:BM:26:LEU:HD22	32:BM:97:ALA:CB	2.38	0.53
32:BM:26:LEU:HD21	32:BM:97:ALA:CA	2.38	0.53
33:BN:88:LYS:HE2	33:BN:88:LYS:C	2.29	0.53
36:BQ:43:LYS:H	36:BQ:95:HIS:CG	2.27	0.53
36:BQ:84:TYR:HB2	36:BQ:86:GLU:HG3	1.89	0.53
39:BT:80:ILE:CG1	39:BT:81:LEU:H	2.19	0.53
40:BU:36:SER:HG	40:BU:38:GLU:HG3	1.73	0.53
40:BU:56:VAL:HG13	40:BU:104:LEU:HB2	1.89	0.53
40:BU:60:ARG:HG3	40:BU:61:GLY:H	1.73	0.53
41:BV:68:TRP:NE1	41:BV:107:GLY:HA3	2.23	0.53
41:BV:72:LEU:CG	41:BV:77:LEU:HD11	2.38	0.53
41:BV:86:ARG:H	41:BV:86:ARG:NE	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:54:LYS:HD3	42:B0:54:LYS:H	1.73	0.53
44:BX:25:LYS:HA	44:BX:25:LYS:CE	2.39	0.53
45:BY:27:HIS:CB	45:BY:30:LYS:HG3	2.35	0.53
47:B9:48:ARG:NH2	47:B9:70:VAL:HB	2.23	0.53
1:AA:143:A:OP2	1:AA:201:C:C2	2.60	0.53
1:AA:190(C):C:H42	16:AQ:111:SER:CB	2.22	0.53
1:AA:239:U:C2'	1:AA:288:A:C4	2.91	0.53
1:AA:979:C:H2'	1:AA:980:C:H5'	1.89	0.53
1:AA:1286:A:H8	1:AA:1287:A:C5'	2.20	0.53
1:AA:1300:G:H5'	13:AM:30:TYR:CD2	2.43	0.53
1:AA:1318:A:N9	17:AS:54:ALA:CB	2.64	0.53
1:AA:1328:C:H2'	13:AM:96:LYS:CB	2.35	0.53
1:AA:1426:C:H2'	1:AA:1427:U:C6	2.43	0.53
1:AA:1496:C:N3	1:AA:1518:A:N3	2.56	0.53
5:AD:27:GLU:HB3	5:AD:34:PHE:HB2	1.90	0.53
5:AD:86:LEU:CB	5:AD:96:VAL:HG13	2.33	0.53
5:AD:99:LEU:HD22	5:AD:103:ASP:N	2.23	0.53
6:AE:82:ILE:O	6:AE:82:ILE:HG13	2.09	0.53
6:AE:102:VAL:CG2	6:AE:189:LEU:HD22	2.32	0.53
13:AM:26:ILE:CG2	13:AM:31:ALA:HB2	2.39	0.53
17:AS:71:GLU:HG3	17:AS:72:LYS:N	2.20	0.53
18:B3:81:G:C2'	40:BU:75:ARG:CD	2.86	0.53
18:B3:90:A:O2'	44:BX:39:PRO:CB	2.55	0.53
18:B3:107:U:O4'	44:BX:56:THR:C	2.47	0.53
18:B3:112:G:C2'	18:B3:114:A:C8	2.44	0.53
18:B3:183:A:C1'	31:BL:158:ARG:HH11	2.21	0.53
18:B3:282:C:H2'	18:B3:283:U:O4'	2.09	0.53
18:B3:473:A:OP1	45:BY:48:TRP:HZ2	1.88	0.53
18:B3:898:G:N1	41:BV:42:ILE:HG12	2.23	0.53
18:B3:903:U:C5	41:BV:15:SER:CA	2.87	0.53
18:B3:918:G:N2	41:BV:45:ASP:CG	2.61	0.53
18:B3:1218:U:H2'	18:B3:1219:U:C6	2.44	0.53
18:B3:1232:A:H5'	18:B3:2553:A:N1	2.24	0.53
18:B3:1245:C:O5'	18:B3:1245:C:H6	1.91	0.53
18:B3:1675:C:P	39:BT:113:VAL:O	2.67	0.53
18:B3:1815:A:OP1	18:B3:2751:C:O4'	2.26	0.53
18:B3:2413:A:O2'	24:BE:174:PRO:HA	2.09	0.53
18:B3:2424:U:H5"	36:BQ:7:TYR:CE2	2.41	0.53
18:B3:2434:A:P	46:BZ:35:PHE:CE2	3.02	0.53
18:B3:2692:G:C8	18:B3:2693:U:H5	2.26	0.53
18:B3:2718:C:H5'	18:B3:2718:C:H6	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:86:G:P	25:BF:218:LYS:CD	2.97	0.53
21:BB:31:LEU:H	21:BB:31:LEU:CD1	2.21	0.53
21:BB:61:VAL:CG2	21:BB:62:PHE:HD1	2.20	0.53
21:BB:232:GLN:O	21:BB:233:LYS:HG3	2.08	0.53
22:BC:210:GLN:NE2	22:BC:283:ARG:HH21	2.05	0.53
23:BD:31:PRO:C	23:BD:34:VAL:HG22	2.29	0.53
23:BD:54:LYS:CG	23:BD:57:HIS:HB2	2.34	0.53
23:BD:156:GLU:HB2	23:BD:210:GLU:OE2	2.08	0.53
24:BE:189:GLU:OE2	24:BE:223:PHE:HZ	1.91	0.53
24:BE:212:ALA:O	24:BE:213:ASP:HB2	2.08	0.53
25:BF:101:VAL:CG2	25:BF:125:LEU:HB3	2.39	0.53
28:BI:104:SER:HB3	28:BI:118:ALA:O	2.09	0.53
28:BI:156:ARG:O	28:BI:157:TYR:HB3	2.07	0.53
29:BJ:75:ALA:HA	29:BJ:78:ILE:CD1	2.37	0.53
32:BM:34:VAL:HG12	32:BM:103:VAL:HG12	1.90	0.53
35:BP:97:ARG:HA	35:BP:100:VAL:HG22	1.89	0.53
37:BR:26:ALA:HA	37:BR:115:THR:HG22	1.90	0.53
40:BU:14:LYS:HB3	40:BU:14:LYS:NZ	2.23	0.53
40:BU:43:TYR:OH	40:BU:48:LEU:HD21	2.09	0.53
40:BU:56:VAL:HG13	40:BU:105:VAL:O	2.07	0.53
42:B0:15:LYS:HD2	42:B0:16:LYS:HD2	1.91	0.53
45:BY:4:THR:HB	45:BY:5:PRO:O	2.09	0.53
1:AA:193:C:H2'	1:AA:194:C:H6	1.73	0.53
1:AA:300:A:H2'	1:AA:301:G:O4'	2.09	0.53
1:AA:336:C:C5	1:AA:1434:A:O4'	2.61	0.53
1:AA:358:U:H4'	2:AT:390:ASP:C	2.29	0.53
1:AA:363:A:C2'	12:AL:49:ALA:CA	2.47	0.53
1:AA:989:C:P	1:AA:1015:A:H62	2.31	0.53
1:AA:1178:G:O6	9:AI:111:TYR:CE1	2.62	0.53
1:AA:1309:G:C4	13:AM:92:ILE:C	2.82	0.53
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.44	0.53
2:AT:200:VAL:O	2:AT:200:VAL:HG22	2.08	0.53
2:AT:423:LYS:O	2:AT:423:LYS:HG2	2.09	0.53
5:AD:110:GLN:HB2	5:AD:144:PRO:HB3	1.90	0.53
5:AD:152:SER:OG	5:AD:154:LYS:HE3	2.08	0.53
5:AD:159:ALA:HB3	5:AD:160:PRO:CD	2.39	0.53
6:AE:138:ILE:HB	6:AE:217:ILE:CD1	2.24	0.53
8:AH:40:MET:SD	8:AH:45:TYR:HB2	2.48	0.53
9:AI:111:TYR:HB3	9:AI:114:THR:CB	2.39	0.53
10:AJ:71:PRO:CA	14:AN:30:VAL:H	2.16	0.53
12:AL:142:LYS:CD	12:AL:143:PRO:HD3	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:31:ALA:O	13:AM:34:THR:HG22	2.09	0.53
15:AO:74:LEU:HD23	15:AO:74:LEU:C	2.29	0.53
15:AO:77:ASN:HB3	15:AO:85:GLU:CG	2.36	0.53
17:AS:93:VAL:CG1	17:AS:104:GLN:HG3	2.38	0.53
18:B3:204:A:C2'	18:B3:205:U:H5'	2.39	0.53
18:B3:471:G:H4'	45:BY:15:HIS:ND1	2.17	0.53
18:B3:719:C:O2'	34:BO:73:GLN:C	2.42	0.53
18:B3:898:G:C5'	41:BV:25:ARG:HG2	2.39	0.53
18:B3:1002:G:HO2'	28:BI:90:ARG:NH2	1.19	0.53
18:B3:1383:U:C2'	43:BW:32:VAL:CG1	2.80	0.53
18:B3:1933:G:O2'	18:B3:1934:A:H5'	2.08	0.53
18:B3:2050:G:C5'	33:BN:82:TRP:CE3	2.90	0.53
18:B3:2295:G:O3'	36:BQ:5:HIS:O	2.26	0.53
18:B3:2547:C:C4'	22:BC:248:VAL:HG13	2.37	0.53
18:B3:2575:C:HO2'	18:B3:2775:A:H1'	1.70	0.53
18:B3:2579:G:O2'	18:B3:2680:A:C2	2.60	0.53
18:B3:2709:G:H4'	37:BR:125:LEU:CD2	2.26	0.53
18:B3:2837:U:H4'	22:BC:332:LYS:HE3	1.89	0.53
18:B3:2865:G:OP2	38:BS:42:GLN:OE1	2.27	0.53
19:B4:6:C:OP2	24:BE:28:THR:N	2.41	0.53
22:BC:41:ALA:HA	22:BC:182:LEU:CB	2.26	0.53
22:BC:221:LYS:CG	22:BC:331:ARG:HG3	2.39	0.53
22:BC:263:VAL:HG23	22:BC:263:VAL:O	2.08	0.53
23:BD:125:ILE:CD1	23:BD:255:THR:HG21	2.38	0.53
23:BD:140:ARG:NH2	23:BD:178:LEU:HB3	2.20	0.53
23:BD:207:VAL:HG23	23:BD:236:GLN:CG	2.39	0.53
24:BE:20:PHE:CD2	24:BE:24:ARG:HB2	2.43	0.53
25:BF:216:PRO:O	25:BF:217:ARG:HB3	2.08	0.53
26:BG:165:LEU:HD22	26:BG:165:LEU:N	2.23	0.53
27:BH:18:VAL:HG11	27:BH:53:ILE:CG2	2.38	0.53
27:BH:128:VAL:HG13	27:BH:132:VAL:CG1	2.38	0.53
28:BI:49:CYS:HA	28:BI:139:ARG:CG	2.35	0.53
29:BJ:44:PRO:HG2	29:BJ:68:VAL:CA	2.37	0.53
29:BJ:57:GLY:HA3	29:BJ:59:ARG:HH12	1.72	0.53
29:BJ:67:HIS:HD2	29:BJ:68:VAL:CG2	2.21	0.53
30:BK:90:ARG:HB3	30:BK:139:VAL:HG23	1.91	0.53
32:BM:91:THR:HG22	32:BM:92:ALA:N	2.24	0.53
33:BN:111:LEU:HD23	33:BN:150:THR:CB	2.38	0.53
34:BO:35:PHE:O	34:BO:36:LEU:HD23	2.08	0.53
34:BO:133:LYS:HD2	34:BO:134:GLY:N	2.24	0.53
35:BP:80:ARG:HA	35:BP:81:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:102:ARG:HG2	35:BP:123:TYR:OH	2.08	0.53
37:BR:114:ILE:HD11	37:BR:133:SER:O	2.09	0.53
40:BU:27:ARG:HA	40:BU:78:PHE:CE2	2.38	0.53
40:BU:56:VAL:HG12	40:BU:57:LEU:H	1.73	0.53
41:BV:95:LYS:HE2	41:BV:95:LYS:CA	2.33	0.53
42:B0:19:ARG:HH11	42:B0:20:HIS:H	1.54	0.53
46:BZ:60:LYS:NZ	46:BZ:62:LYS:HB3	2.22	0.53
1:AA:21:G:H1'	1:AA:885:G:C5'	2.32	0.53
1:AA:148:G:H2'	1:AA:149:A:H8	1.73	0.53
1:AA:545:C:C5'	5:AD:63:ASP:HA	2.39	0.53
1:AA:989:C:H1'	1:AA:1015:A:C8	2.30	0.53
1:AA:1115:C:H4'	10:AJ:64:LYS:NZ	2.23	0.53
1:AA:1424:C:O2'	1:AA:1425:U:H5'	2.09	0.53
2:AT:141:THR:HG22	2:AT:483:PHE:CD2	2.42	0.53
7:AG:159:VAL:HG22	7:AG:160:ASP:H	1.73	0.53
9:AI:27:LEU:HD21	9:AI:63:ASP:OD2	2.09	0.53
9:AI:98:GLU:CA	9:AI:105:LYS:N	2.72	0.53
10:AJ:38:SER:O	10:AJ:42:VAL:HG23	2.09	0.53
10:AJ:70:THR:CB	14:AN:41:CYS:H	2.21	0.53
11:AK:28:HIS:CD2	11:AK:36:GLU:HG2	2.44	0.53
15:AO:68:ASN:HB3	15:AO:71:MET:HB2	1.91	0.53
15:AO:83:ILE:CB	15:AO:84:PRO:HD3	2.38	0.53
16:AQ:69:ILE:O	16:AQ:70:LEU:HD23	2.07	0.53
18:B3:67:A:O2'	39:BT:59:TYR:CE1	2.56	0.53
18:B3:91:G:C4'	44:BX:39:PRO:HB2	2.39	0.53
18:B3:91:G:C2'	44:BX:41:LEU:HB3	2.28	0.53
18:B3:170:U:O2'	46:BZ:50:GLY:HA2	2.08	0.53
18:B3:488:U:OP1	40:BU:90:VAL:CG1	2.57	0.53
18:B3:1315:G:N2	42:B0:107:VAL:CG1	2.56	0.53
18:B3:1381:A:P	43:BW:25:LYS:HZ2	2.31	0.53
18:B3:1438:G:N2	18:B3:1685:A:C8	2.73	0.53
18:B3:1875:A:C2	21:BB:151:SER:CB	2.92	0.53
18:B3:1925:G:O2'	18:B3:1926:G:H5'	2.09	0.53
18:B3:2165:G:C6	20:BA:60:ARG:HD2	2.44	0.53
18:B3:2244:A:C3'	31:BL:27:TRP:CZ3	2.82	0.53
18:B3:2654:C:C6	22:BC:259:VAL:N	2.76	0.53
20:BA:36:VAL:CG2	20:BA:204:LEU:HD12	2.39	0.53
20:BA:63:MET:HE3	20:BA:159:LEU:C	2.29	0.53
21:BB:143:ASN:O	21:BB:144:LYS:HB3	2.09	0.53
22:BC:61:ARG:O	22:BC:61:ARG:HG3	2.08	0.53
22:BC:208:PHE:CB	22:BC:338:ARG:HH22	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:302:LYS:HB3	22:BC:317:LYS:HA	1.91	0.53
22:BC:356:LYS:O	22:BC:357:TRP:HD1	1.90	0.53
23:BD:22:PRO:HG2	23:BD:25:PHE:CE2	2.44	0.53
23:BD:51:VAL:HG12	23:BD:52:SER:N	2.24	0.53
23:BD:131:ALA:O	23:BD:135:LEU:HD23	2.09	0.53
24:BE:33:ARG:HH12	24:BE:34:LYS:HB2	1.72	0.53
24:BE:113:LEU:HD13	24:BE:113:LEU:N	2.23	0.53
24:BE:148:ILE:O	24:BE:148:ILE:HD13	2.09	0.53
25:BF:101:VAL:O	25:BF:101:VAL:HG22	2.08	0.53
25:BF:207:SER:HB2	25:BF:242:MET:SD	2.48	0.53
26:BG:127:LYS:HB2	26:BG:128:PRO:CD	2.36	0.53
26:BG:164:PHE:CD1	31:BL:5:TYR:CE1	2.77	0.53
27:BH:54:LYS:NZ	27:BH:75:VAL:HG21	2.24	0.53
27:BH:129:ARG:NE	27:BH:129:ARG:HA	2.23	0.53
28:BI:147:VAL:HG13	28:BI:148:VAL:N	2.23	0.53
29:BJ:162:PHE:CD1	29:BJ:165:LYS:HD3	2.44	0.53
31:BL:54:ALA:O	31:BL:55:LYS:HG2	2.09	0.53
31:BL:112:LEU:HB3	31:BL:135:ASP:HA	1.89	0.53
31:BL:163:LEU:O	31:BL:163:LEU:HD22	2.09	0.53
32:BM:5:VAL:H	32:BM:32:ILE:CG2	2.22	0.53
32:BM:7:VAL:HG22	32:BM:33:VAL:HG22	1.91	0.53
32:BM:49:ASN:HD21	32:BM:136:THR:CG2	2.22	0.53
36:BQ:20:ARG:H	36:BQ:20:ARG:HE	1.55	0.53
37:BR:34:LEU:O	37:BR:34:LEU:HD22	2.09	0.53
41:BV:77:LEU:H	41:BV:77:LEU:CD1	2.22	0.53
43:BW:49:ARG:C	43:BW:50:LEU:HG	2.29	0.53
1:AA:22:G:N2	1:AA:913:A:N1	2.56	0.53
1:AA:130:A:O5'	16:AQ:127:CYS:CB	2.39	0.53
1:AA:130:A:H5'	1:AA:190(E):U:C5	2.44	0.53
1:AA:582:U:C2	1:AA:760:G:O6	2.62	0.53
1:AA:1175:G:C6	9:AI:108:PHE:HB3	2.44	0.53
1:AA:1319:A:OP1	17:AS:84:ILE:CG1	2.56	0.53
1:AA:1404:C:HO2'	1:AA:1520:G:P	2.23	0.53
1:AA:1483:A:C2'	18:B3:2001:G:C4	2.92	0.53
2:AT:400:VAL:HG12	2:AT:450:ALA:HA	1.91	0.53
2:AT:644:ASN:HD22	2:AT:684:VAL:H	1.56	0.53
3:AB:138:VAL:HG13	3:AB:140:ILE:CG1	2.37	0.53
6:AE:204:ARG:HD2	6:AE:207:GLU:CB	2.16	0.53
7:AG:107:LEU:HD21	7:AG:108:LYS:NZ	2.23	0.53
7:AG:186:ILE:HG21	7:AG:190:ALA:CB	2.38	0.53
9:AI:43:LEU:HD22	9:AI:43:LEU:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:81:ARG:CD	9:AI:115:LEU:HD21	2.39	0.53
12:AL:121:ARG:HB2	12:AL:122:PHE:CE1	2.44	0.53
13:AM:89:GLN:HG3	13:AM:109:LEU:C	2.29	0.53
13:AM:131:LEU:HD22	13:AM:132:ARG:HH22	1.73	0.53
16:AQ:76:SER:O	16:AQ:83:ILE:HD12	2.09	0.53
18:B3:67:A:P	44:BX:55:LEU:HD23	2.49	0.53
18:B3:263:U:O4	26:BG:157:ASP:CG	2.47	0.53
18:B3:449:A:C5	18:B3:1349:G:H2'	2.43	0.53
18:B3:754:G:OP1	41:BV:7:THR:CG2	2.57	0.53
18:B3:903:U:O5'	41:BV:14:VAL:HG23	2.09	0.53
18:B3:1086:A:N6	25:BF:92:ASN:CG	2.58	0.53
18:B3:1117:A:N1	18:B3:1244:U:H2'	2.23	0.53
18:B3:1333:U:H2'	18:B3:1334:C:H6	1.74	0.53
18:B3:1428:C:H4'	33:BN:124:GLN:NE2	2.22	0.53
18:B3:1591:A:H4'	18:B3:1592:G:O5'	2.09	0.53
18:B3:1786:C:C4	18:B3:2883:A:C4'	2.73	0.53
18:B3:2060:A:H4'	42:B0:25:TYR:CG	2.37	0.53
18:B3:2336:G:O3'	29:BJ:101:PHE:HB3	2.08	0.53
18:B3:2509:A:OP2	18:B3:2510:C:H5	1.92	0.53
18:B3:2795:C:C2'	27:BH:156:GLN:HG2	2.35	0.53
18:B3:2797:C:P	27:BH:127:PRO:HG3	2.24	0.53
20:BA:162:VAL:HG12	20:BA:164:CYS:H	1.73	0.53
21:BB:98:GLY:H	21:BB:165:ILE:HG22	1.74	0.53
21:BB:127:ARG:O	21:BB:168:ILE:HG13	2.08	0.53
21:BB:195:TRP:NE1	21:BB:196:PRO:HA	2.24	0.53
23:BD:62:GLU:HA	23:BD:74:PRO:HB2	1.91	0.53
23:BD:83:ARG:HA	23:BD:96:GLY:O	2.09	0.53
23:BD:180:VAL:HG11	23:BD:222:PRO:O	2.09	0.53
24:BE:64:ILE:HG21	24:BE:109:THR:CB	2.38	0.53
24:BE:99:TYR:CZ	24:BE:161:GLY:HA3	2.44	0.53
25:BF:143:ILE:O	25:BF:143:ILE:HG22	2.08	0.53
27:BH:129:ARG:HG3	27:BH:153:ASP:HA	1.89	0.53
28:BI:99:ILE:CG1	28:BI:121:LYS:HE3	2.39	0.53
28:BI:110:ARG:HD3	28:BI:110:ARG:O	2.09	0.53
28:BI:165:ILE:HD13	28:BI:165:ILE:C	2.29	0.53
32:BM:26:LEU:HD13	32:BM:97:ALA:CB	2.38	0.53
33:BN:59:PHE:HD1	33:BN:63:ASN:CG	2.11	0.53
34:BO:87:VAL:HG22	34:BO:110:ALA:HB1	1.91	0.53
37:BR:127:PRO:O	37:BR:128:ARG:HB2	2.08	0.53
39:BT:66:ILE:HG22	39:BT:82:VAL:C	2.29	0.53
39:BT:80:ILE:HG21	39:BT:125:LEU:HG	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:55:THR:HG21	47:B9:63:VAL:HG23	1.87	0.53
1:AA:68:G:O3'	1:AA:73:C:OP2	2.27	0.53
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.44	0.53
1:AA:1307:U:OP2	13:AM:134:ARG:NH1	2.42	0.53
1:AA:1423:G:O2'	1:AA:1424:C:H5'	2.09	0.53
1:AA:1496:C:H3'	1:AA:1517:G:O6	2.09	0.53
2:AT:581:ASN:O	2:AT:582:LYS:HB2	2.08	0.53
3:AB:68:ASN:HB3	3:AB:69:PRO:CD	2.39	0.53
5:AD:44:ARG:HG3	5:AD:45:ILE:CG2	2.39	0.53
5:AD:100:LYS:HB3	5:AD:191:ALA:C	2.28	0.53
5:AD:131:GLN:O	5:AD:132:ARG:HB2	2.07	0.53
5:AD:172:VAL:HG12	5:AD:173:ALA:N	2.23	0.53
5:AD:192:ASP:O	5:AD:195:ASP:HB2	2.09	0.53
8:AH:40:MET:CG	8:AH:46:ILE:HG23	2.38	0.53
9:AI:51:LEU:O	9:AI:54:VAL:HG22	2.08	0.53
10:AJ:100:VAL:HG23	10:AJ:101:LYS:N	2.23	0.53
11:AK:117:VAL:HG13	11:AK:117:VAL:O	2.08	0.53
13:AM:17:LEU:HD12	13:AM:17:LEU:N	2.24	0.53
13:AM:115:ARG:O	13:AM:119:ILE:HG12	2.09	0.53
17:AS:67:ALA:HB3	17:AS:68:PRO:CD	2.39	0.53
18:B3:620:A:HO2'	42:B0:20:HIS:HE2	1.26	0.53
18:B3:695:C:H2'	18:B3:696:C:C6	2.43	0.53
18:B3:745:G:H21	41:BV:76:LYS:HZ1	1.48	0.53
18:B3:1120:U:H3	18:B3:1226:G:P	2.31	0.53
18:B3:1166:G:N2	30:BK:108:GLU:N	1.79	0.53
18:B3:1184:A:H4'	30:BK:86:LYS:CB	2.23	0.53
18:B3:1347:U:H1'	23:BD:240:GLY:O	2.09	0.53
18:B3:1359:U:O2	23:BD:69:ALA:O	2.27	0.53
18:B3:1423:C:O2'	18:B3:1424:A:H5'	2.08	0.53
18:B3:1861:C:O3'	21:BB:7:GLN:CA	2.57	0.53
18:B3:2019:A:N3	47:B9:17:TYR:CE2	2.77	0.53
18:B3:2214:A:H5"	20:BA:83:ASP:HB2	1.90	0.53
18:B3:2346:C:O5'	29:BJ:47:SER:O	2.26	0.53
18:B3:2468:A:C6	46:BZ:55:PRO:CG	2.79	0.53
18:B3:2566:A:C5'	27:BH:174:LYS:HZ3	2.21	0.53
18:B3:2709:G:C4'	37:BR:125:LEU:HD21	2.26	0.53
18:B3:2890:A:C2	38:BS:49:ILE:C	2.73	0.53
19:B4:119:C:H5'	24:BE:68:THR:CB	2.39	0.53
22:BC:48:TYR:HD2	22:BC:334:ILE:C	2.12	0.53
22:BC:87:GLY:HA2	22:BC:198:PHE:CZ	2.44	0.53
22:BC:121:TRP:HD1	22:BC:122:TYR:H	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:165:ILE:HG21	22:BC:171:ALA:CB	2.24	0.53
22:BC:174:LYS:NZ	22:BC:174:LYS:HB3	2.20	0.53
22:BC:316:ILE:HD13	22:BC:320:PHE:HE1	1.74	0.53
22:BC:358:ILE:H	38:BS:15:PRO:HG2	1.72	0.53
24:BE:84:PRO:HB3	24:BE:87:GLY:C	2.29	0.53
24:BE:204:VAL:O	24:BE:207:TYR:HD2	1.92	0.53
25:BF:146:LEU:CD1	25:BF:239:VAL:HG22	2.39	0.53
26:BG:212:LYS:CD	26:BG:213:LEU:HD23	2.39	0.53
28:BI:33:ILE:HD13	28:BI:33:ILE:N	2.24	0.53
28:BI:51:HIS:CE1	28:BI:149:VAL:HG22	2.40	0.53
28:BI:154:ARG:HB2	28:BI:154:ARG:HH11	1.73	0.53
29:BJ:8:MET:CE	29:BJ:9:ARG:HE	2.22	0.53
29:BJ:28:ARG:HG3	29:BJ:29:LEU:CD2	2.38	0.53
29:BJ:153:THR:HG22	29:BJ:154:THR:N	2.24	0.53
31:BL:41:PRO:HG2	31:BL:47:ALA:CB	2.39	0.53
31:BL:163:LEU:C	31:BL:163:LEU:HD22	2.28	0.53
32:BM:37:ALA:CB	32:BM:79:PHE:CE1	2.91	0.53
33:BN:17:ARG:CB	33:BN:146:GLU:HA	2.38	0.53
33:BN:25:PHE:HD1	33:BN:143:SER:HB3	1.72	0.53
34:BO:30:VAL:HG23	34:BO:31:LYS:N	2.23	0.53
35:BP:18:LYS:HA	35:BP:18:LYS:CE	2.38	0.53
35:BP:68:SER:O	35:BP:71:GLU:HB3	2.09	0.53
36:BQ:39:ILE:HD13	36:BQ:39:ILE:N	2.17	0.53
37:BR:40:LYS:HD3	37:BR:57:MET:CB	2.38	0.53
37:BR:45:ARG:H	37:BR:48:ARG:HB3	1.72	0.53
37:BR:85:TRP:HE3	37:BR:86:ARG:CD	2.13	0.53
37:BR:102:ILE:HD13	37:BR:102:ILE:N	2.24	0.53
39:BT:81:LEU:HD22	39:BT:81:LEU:C	2.29	0.53
40:BU:30:LEU:HD22	40:BU:78:PHE:HB3	1.91	0.53
41:BV:70:PRO:HD2	41:BV:108:TYR:CD2	2.43	0.53
43:BW:16:HIS:HB2	43:BW:30:ARG:HG2	1.90	0.53
44:BX:21:LEU:HD23	44:BX:21:LEU:H	1.74	0.53
46:BZ:65:LYS:HA	46:BZ:66:LYS:CE	2.39	0.53
47:B9:10:THR:O	47:B9:26:LYS:HG2	2.08	0.53
1:AA:33:A:H2'	1:AA:34:C:C6	2.43	0.53
1:AA:119:A:N3	1:AA:238:G:C4	2.77	0.53
1:AA:499:A:C2	1:AA:546:G:C2'	2.60	0.53
1:AA:623:C:O2'	1:AA:624:C:H5'	2.09	0.53
1:AA:959:A:C2	1:AA:1222:G:O4'	2.62	0.53
1:AA:1106:G:O2'	4:AC:157:ILE:CD1	2.44	0.53
1:AA:1305:G:C8	1:AA:1305:G:OP2	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:734:GLN:HG3	2:AT:767:THR:HG22	1.90	0.53
4:AC:98:VAL:N	4:AC:170:ALA:HB2	2.24	0.53
4:AC:173:HIS:O	4:AC:174:VAL:HG23	2.08	0.53
6:AE:193:GLU:OE1	6:AE:193:GLU:HA	2.08	0.53
10:AJ:93:LEU:CD2	10:AJ:99:ILE:HG21	2.38	0.53
13:AM:41:ARG:O	13:AM:45:LEU:HD23	2.09	0.53
13:AM:117:LYS:HE2	13:AM:127:HIS:CB	2.38	0.53
16:AQ:141:VAL:O	16:AQ:141:VAL:HG13	2.08	0.53
17:AS:58:LYS:HB3	17:AS:58:LYS:HZ2	1.72	0.53
18:B3:81:G:O2'	40:BU:75:ARG:CD	2.56	0.53
18:B3:484:A:N1	18:B3:506:G:H4'	2.24	0.53
18:B3:760:G:H22	23:BD:101:PRO:CB	1.92	0.53
18:B3:1164:U:H5'	30:BK:47:ALA:CA	2.39	0.53
18:B3:1181:A:C4	30:BK:106:LEU:HD12	2.43	0.53
18:B3:1227:C:H5'	32:BM:132:ARG:NH1	2.24	0.53
18:B3:1359:U:OP1	23:BD:92:MET:HE1	1.99	0.53
18:B3:1467:C:P	31:BL:33:ASN:HB2	2.47	0.53
18:B3:1671:U:C6	39:BT:108:LYS:NZ	2.77	0.53
18:B3:1719:G:OP2	35:BP:19:ARG:HG3	2.08	0.53
18:B3:1856:C:O2'	18:B3:1857:A:OP2	2.19	0.53
18:B3:2081:A:C3'	32:BM:69:PRO:CB	2.85	0.53
18:B3:2336:G:O3'	29:BJ:101:PHE:CB	2.56	0.53
18:B3:2736:U:H5	35:BP:61:ARG:NH1	1.97	0.53
18:B3:2853:U:H5'	22:BC:170:LEU:HD23	1.84	0.53
18:B3:2854:A:P	22:BC:170:LEU:CD1	2.97	0.53
18:B3:2866:U:O2'	18:B3:2867:G:P	2.67	0.53
19:B4:6:C:O2	24:BE:48:LYS:NZ	2.37	0.53
19:B4:50:G:H2'	24:BE:93:THR:N	2.05	0.53
20:BA:29:LEU:CD2	20:BA:172:VAL:HG11	2.29	0.53
20:BA:58:CYS:HA	20:BA:153:SER:OG	2.08	0.53
20:BA:68:PHE:CD1	20:BA:85:MET:HE3	2.44	0.53
22:BC:46:LEU:HB2	22:BC:338:ARG:N	2.24	0.53
22:BC:83:VAL:HG13	22:BC:162:HIS:C	2.29	0.53
22:BC:91:TYR:C	22:BC:99:ARG:HH21	2.12	0.53
22:BC:104:VAL:CG2	22:BC:198:PHE:CZ	2.92	0.53
22:BC:158:ARG:HA	22:BC:182:LEU:CD1	2.35	0.53
23:BD:161:THR:HG23	23:BD:217:ALA:HA	1.91	0.53
23:BD:211:ASP:O	23:BD:228:ASN:HB2	2.08	0.53
23:BD:215:VAL:CG1	23:BD:218:LEU:HD23	2.38	0.53
25:BF:130:GLU:HB3	25:BF:131:PRO:CD	2.34	0.53
26:BG:150:VAL:O	26:BG:176:TYR:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BG:157:ASP:H	26:BG:159:ILE:HG12	1.74	0.53
27:BH:52:LEU:HG	27:BH:53:ILE:H	1.73	0.53
27:BH:145:VAL:C	27:BH:146:LEU:HD22	2.28	0.53
28:BI:151:GLY:O	28:BI:152:LEU:HB2	2.08	0.53
31:BL:13:LYS:HE3	31:BL:18:LEU:CG	2.36	0.53
31:BL:161:ARG:CG	31:BL:166:THR:HG21	2.36	0.53
35:BP:3:LEU:HD13	35:BP:31:ILE:C	2.29	0.53
35:BP:114:ILE:HG23	35:BP:119:TYR:HB3	1.90	0.53
37:BR:11:PHE:HB3	37:BR:86:ARG:CD	2.39	0.53
37:BR:23:MET:HG2	37:BR:34:LEU:HD22	1.91	0.53
38:BS:52:THR:HB	38:BS:55:PHE:H	1.73	0.53
41:BV:69:LYS:H	41:BV:69:LYS:HD3	1.73	0.53
41:BV:95:LYS:NZ	41:BV:96:GLU:H	2.07	0.53
43:BW:28:ALA:HB1	43:BW:59:TRP:CG	2.44	0.53
43:BW:28:ALA:CB	43:BW:29:PRO:HD3	2.34	0.53
46:BZ:74:VAL:O	46:BZ:74:VAL:HG13	2.08	0.53
1:AA:294:U:P	1:AA:610:G:N3	2.82	0.52
1:AA:363:A:H61	12:AL:44:GLY:CA	2.20	0.52
1:AA:402:G:C3'	5:AD:144:PRO:HB2	2.39	0.52
1:AA:519:C:OP2	12:AL:66:SER:C	2.46	0.52
1:AA:552:U:OP1	12:AL:107:PHE:C	2.48	0.52
1:AA:615:C:P	5:AD:149:ARG:HG2	2.13	0.52
1:AA:1059:C:O2'	1:AA:1060:C:H5'	2.10	0.52
2:AT:103:ILE:HD13	2:AT:121:VAL:HG23	1.91	0.52
2:AT:167:LEU:HD12	2:AT:167:LEU:N	2.24	0.52
2:AT:569:SER:O	2:AT:720:ALA:HB1	2.09	0.52
2:AT:588:LEU:HD12	2:AT:588:LEU:C	2.29	0.52
2:AT:615:ARG:HG2	2:AT:619:MET:CE	2.38	0.52
3:AB:36:VAL:HG21	3:AB:148:LEU:HD13	1.90	0.52
4:AC:94:GLY:CA	4:AC:124:TYR:HE2	2.19	0.52
4:AC:119:TYR:CE1	4:AC:151:PHE:CE1	2.96	0.52
5:AD:99:LEU:CD1	5:AD:101:VAL:CA	2.84	0.52
6:AE:164:VAL:HG11	6:AE:209:THR:CA	2.34	0.52
7:AG:212:LYS:O	7:AG:216:LEU:HD13	2.09	0.52
8:AH:64:LEU:HD12	8:AH:64:LEU:N	2.25	0.52
18:B3:67:A:H1'	39:BT:60:LYS:HZ1	1.70	0.52
18:B3:820:G:H5'	18:B3:821:U:H5'	1.90	0.52
18:B3:1098:A:H5"	25:BF:217:ARG:CB	2.39	0.52
18:B3:1285:U:C3'	25:BF:155:ILE:CG1	2.86	0.52
18:B3:1382:G:C2'	43:BW:29:PRO:HG2	2.39	0.52
18:B3:2337:G:N3	29:BJ:127:TYR:HB2	2.20	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2381:C:H4'	46:BZ:8:LYS:HZ1	1.72	0.52
18:B3:2519:C:H6	28:BI:158:LYS:HE2	0.81	0.52
18:B3:2613:G:H22	22:BC:238:PRO:HD2	1.71	0.52
18:B3:2667:G:O2'	18:B3:2668:G:H5'	2.10	0.52
18:B3:2704:C:C2	27:BH:121:LYS:CD	2.80	0.52
18:B3:2820:A:P	22:BC:101:LEU:H	2.15	0.52
20:BA:49:PHE:HD1	20:BA:157:PHE:CD1	2.28	0.52
20:BA:216:LEU:HD13	20:BA:216:LEU:C	2.29	0.52
21:BB:45:LYS:H	21:BB:71:ARG:NH2	2.06	0.52
21:BB:147:VAL:HG23	21:BB:148:ARG:N	2.23	0.52
21:BB:157:ILE:HD12	21:BB:161:ALA:CB	2.38	0.52
22:BC:20:ARG:HH11	22:BC:20:ARG:CG	2.22	0.52
22:BC:29:LYS:HD3	22:BC:29:LYS:N	2.24	0.52
22:BC:255:HIS:CB	22:BC:256:PRO:HD3	2.38	0.52
24:BE:106:ALA:O	24:BE:107:ARG:HB2	2.08	0.52
24:BE:185:PHE:HB3	24:BE:203:HIS:CE1	2.44	0.52
25:BF:122:THR:HG22	25:BF:123:LEU:H	1.74	0.52
26:BG:149:LEU:HD11	26:BG:210:LEU:HD11	1.90	0.52
28:BI:101:LYS:HB2	28:BI:121:LYS:HG3	1.91	0.52
28:BI:131:ILE:HD12	28:BI:131:ILE:N	2.24	0.52
29:BJ:14:GLU:CG	29:BJ:129:VAL:HG13	2.39	0.52
29:BJ:130:MET:HE3	29:BJ:162:PHE:HD2	1.73	0.52
31:BL:25:ARG:CD	31:BL:26:VAL:HB	2.32	0.52
31:BL:70:ARG:HD3	31:BL:70:ARG:N	2.24	0.52
31:BL:91:LEU:HD12	31:BL:91:LEU:C	2.30	0.52
31:BL:139:LYS:HD2	31:BL:139:LYS:O	2.09	0.52
31:BL:186:ARG:CG	31:BL:187:ARG:HH12	2.22	0.52
33:BN:101:ALA:CA	33:BN:106:LEU:HD21	2.39	0.52
35:BP:62:THR:C	35:BP:63:ARG:HD3	2.29	0.52
37:BR:25:CYS:HA	37:BR:100:GLY:O	2.08	0.52
38:BS:27:LYS:O	38:BS:28:ILE:HB	2.09	0.52
39:BT:60:LYS:HD3	39:BT:60:LYS:H	1.73	0.52
43:BW:71:ARG:HH11	43:BW:72:LEU:HA	1.73	0.52
45:BY:15:HIS:HA	45:BY:26:PHE:O	2.09	0.52
1:AA:99:C:H1'	1:AA:102:G:C6	2.44	0.52
1:AA:106:C:H5'	1:AA:379:C:O3'	2.09	0.52
1:AA:714:G:O6	11:AK:122:SER:C	2.48	0.52
1:AA:1070:U:O2'	1:AA:1071:C:H5'	2.09	0.52
1:AA:1307:U:H5'	13:AM:144:ARG:CG	2.13	0.52
1:AA:1376:U:H2'	1:AA:1377:A:H8	1.73	0.52
2:AT:533:THR:N	2:AT:537:HIS:HD2	2.00	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:22:HIS:NE2	3:AB:172:ILE:HD11	2.25	0.52
8:AH:118:LYS:HG3	8:AH:120:VAL:HG13	1.91	0.52
10:AJ:75:GLY:N	14:AN:40:GLN:CG	2.69	0.52
13:AM:120:ARG:HD2	13:AM:120:ARG:H	1.74	0.52
18:B3:72:C:C5'	44:BX:49:LYS:HZ1	1.97	0.52
18:B3:449:A:OP2	23:BD:45:LYS:HG3	2.08	0.52
18:B3:1060:C:H2'	18:B3:1061:C:H6	1.75	0.52
18:B3:1098:A:H2'	18:B3:1099:G:O4'	2.10	0.52
18:B3:1116:U:P	18:B3:1140:C:C2	3.02	0.52
18:B3:1183:C:O3'	30:BK:103:ASN:N	2.34	0.52
18:B3:1335:C:H3'	42:B0:98:HIS:CA	2.32	0.52
18:B3:1359:U:O5'	23:BD:91:ASN:CB	2.53	0.52
18:B3:1361:C:O2	23:BD:94:ARG:HD3	2.09	0.52
18:B3:1653:A:O4'	21:BB:186:HIS:HD2	1.93	0.52
18:B3:1669:A:H2'	18:B3:1670:G:H8	1.72	0.52
18:B3:1687:C:O4'	45:BY:8:GLY:O	2.27	0.52
18:B3:1690:C:C6	33:BN:128:THR:HG22	2.44	0.52
18:B3:2134:G:H8	18:B3:2258:A:C2	2.23	0.52
18:B3:2215:A:H1'	20:BA:106:LYS:HA	1.90	0.52
18:B3:2251:G:C2'	21:BB:33:TYR:OH	2.54	0.52
18:B3:2333:G:H1'	29:BJ:113:ILE:O	2.08	0.52
18:B3:2337:G:OP1	29:BJ:103:PHE:CA	2.57	0.52
18:B3:2348:C:N4	29:BJ:127:TYR:CZ	2.77	0.52
20:BA:49:PHE:HE2	20:BA:193:LEU:HD11	1.72	0.52
20:BA:60:ARG:CD	20:BA:61:PRO:HD3	2.26	0.52
20:BA:157:PHE:CZ	20:BA:165:LEU:HB3	2.44	0.52
21:BB:122:ARG:NE	21:BB:123:GLY:H	2.06	0.52
21:BB:155:LYS:HB3	21:BB:155:LYS:NZ	2.24	0.52
22:BC:11:GLY:CA	22:BC:232:TRP:HB2	2.38	0.52
22:BC:165:ILE:HG22	22:BC:165:ILE:O	2.08	0.52
23:BD:149:LEU:O	23:BD:248:ILE:HG13	2.09	0.52
23:BD:186:LEU:N	23:BD:186:LEU:HD23	2.25	0.52
23:BD:243:LEU:N	23:BD:243:LEU:HD22	2.24	0.52
24:BE:176:SER:OG	24:BE:179:ARG:HD3	2.09	0.52
24:BE:219:PHE:CD1	24:BE:222:LEU:CB	2.90	0.52
25:BF:117:LYS:HD3	25:BF:118:VAL:N	2.25	0.52
25:BF:188:ILE:HD13	25:BF:188:ILE:C	2.29	0.52
25:BF:237:LYS:HG3	25:BF:238:LEU:N	2.25	0.52
26:BG:119:LYS:HE3	26:BG:184:ARG:HD3	1.90	0.52
26:BG:189:VAL:CG1	26:BG:191:GLN:HG2	2.33	0.52
27:BH:167:VAL:HG23	27:BH:170:LYS:HZ1	1.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:4:ARG:CG	28:BI:5:PRO:HA	2.40	0.52
28:BI:27:PRO:HG3	28:BI:124:GLY:H	1.74	0.52
28:BI:49:CYS:O	28:BI:139:ARG:HB3	2.08	0.52
28:BI:116:ARG:HH11	28:BI:117:GLY:CA	2.23	0.52
31:BL:43:ARG:HG2	31:BL:46:LYS:CE	2.39	0.52
31:BL:99:ALA:CB	31:BL:168:LYS:HD3	2.39	0.52
34:BO:87:VAL:H	34:BO:106:PHE:HB3	1.74	0.52
40:BU:35:LEU:HD13	40:BU:46:LYS:C	2.28	0.52
41:BV:111:ILE:O	41:BV:111:ILE:HG12	2.08	0.52
43:BW:28:ALA:CA	43:BW:59:TRP:CE2	2.87	0.52
47:B9:22:ARG:HG2	47:B9:23:ARG:N	2.24	0.52
1:AA:6:G:C4	6:AE:196:TYR:CD2	2.98	0.52
1:AA:166:G:O2'	1:AA:167:G:H5'	2.09	0.52
1:AA:475:G:H2'	1:AA:476:G:C8	2.42	0.52
1:AA:554:C:O4'	12:AL:44:GLY:C	2.43	0.52
1:AA:865:A:OP1	1:AA:1078:U:C2'	2.55	0.52
1:AA:1014:A:P	17:AS:72:LYS:HZ3	2.05	0.52
1:AA:1085:U:O3'	1:AA:1086:U:C6	2.63	0.52
1:AA:1117:G:O2'	9:AI:120:SER:HA	2.07	0.52
1:AA:1125:U:H3	10:AJ:23:ARG:HE	0.64	0.52
1:AA:1300:G:C5'	13:AM:30:TYR:CZ	2.57	0.52
1:AA:1344:C:OP2	9:AI:136:ARG:NH2	2.41	0.52
1:AA:1505:G:N3	1:AA:1506:U:C3'	2.66	0.52
2:AT:109:VAL:CG1	2:AT:115:VAL:HG21	2.40	0.52
5:AD:82:ARG:HD2	5:AD:104:PHE:HB3	1.91	0.52
7:AG:116:THR:HA	7:AG:119:ILE:HD12	1.91	0.52
8:AH:19:THR:OG1	8:AH:21:LYS:HG3	2.10	0.52
8:AH:81:LYS:HD3	8:AH:123:LYS:HD2	1.88	0.52
9:AI:33:SER:HB3	9:AI:37:LEU:CD2	2.36	0.52
10:AJ:58:LEU:HD22	10:AJ:58:LEU:N	2.25	0.52
10:AJ:75:GLY:O	14:AN:40:GLN:HG2	2.08	0.52
17:AS:83:MET:SD	17:AS:89:MET:HE1	2.49	0.52
17:AS:122:THR:HG23	17:AS:123:TYR:N	2.24	0.52
18:B3:134:U:H5'	31:BL:108:ARG:CD	2.38	0.52
18:B3:475:G:OP1	23:BD:58:GLN:OE1	2.27	0.52
18:B3:666:A:H2'	18:B3:667:C:O4'	2.09	0.52
18:B3:952:G:C4'	36:BQ:14:MET:HG2	2.39	0.52
18:B3:1132:A:N6	18:B3:1229:C:H2'	2.25	0.52
18:B3:1501:A:H5'	35:BP:37:ARG:CD	2.35	0.52
18:B3:1566:C:O3'	35:BP:56:VAL:CG1	2.50	0.52
18:B3:1589:G:H22	18:B3:1605:G:H2'	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1806:G:H2'	18:B3:2884:G:C1'	2.36	0.52
18:B3:1900:A:OP1	21:BB:225:SER:HB3	2.09	0.52
18:B3:2051:G:O2'	18:B3:2052:U:H5'	2.08	0.52
18:B3:2052:U:H5"	33:BN:22:ARG:O	2.10	0.52
18:B3:2065:C:H3'	22:BC:255:HIS:HB3	1.91	0.52
18:B3:2134:G:C4	18:B3:2258:A:C6	2.98	0.52
18:B3:2350:G:O6	29:BJ:115:TYR:HB3	2.08	0.52
18:B3:2364:A:H5"	36:BQ:16:GLN:OE1	2.08	0.52
18:B3:2468:A:H2	46:BZ:54:LYS:HB3	0.77	0.52
18:B3:2663:U:N1	18:B3:2816:A:N1	2.55	0.52
20:BA:34:LEU:HD13	20:BA:34:LEU:C	2.29	0.52
21:BB:134:ILE:CD1	21:BB:148:ARG:HG3	2.39	0.52
21:BB:138:HIS:ND1	21:BB:141:ASP:HB3	2.24	0.52
22:BC:18:ARG:NH1	22:BC:271:TYR:HE2	2.07	0.52
22:BC:55:ILE:HG12	22:BC:56:VAL:N	2.25	0.52
22:BC:56:VAL:HG13	37:BR:89:ASP:HA	1.91	0.52
22:BC:120:ASN:HB3	22:BC:129:PHE:CE1	2.45	0.52
23:BD:186:LEU:H	23:BD:186:LEU:CD2	2.23	0.52
23:BD:192:LYS:HD2	23:BD:192:LYS:C	2.28	0.52
24:BE:75:LEU:CG	24:BE:109:THR:HG23	2.38	0.52
24:BE:106:ALA:HB1	24:BE:169:GLY:HA3	1.92	0.52
24:BE:119:TYR:HD1	24:BE:120:LYS:O	1.93	0.52
24:BE:148:ILE:HD13	24:BE:148:ILE:N	2.24	0.52
26:BG:209:ALA:O	26:BG:212:LYS:HG3	2.09	0.52
27:BH:43:VAL:HG11	32:BM:126:LEU:CA	2.25	0.52
28:BI:116:ARG:HD2	28:BI:117:GLY:CA	2.39	0.52
28:BI:134:ILE:HG12	28:BI:134:ILE:O	2.10	0.52
28:BI:137:SER:C	28:BI:138:VAL:HG23	2.30	0.52
29:BJ:97:ALA:O	29:BJ:98:THR:HB	2.09	0.52
30:BK:139:VAL:HG13	30:BK:141:CYS:H	1.74	0.52
31:BL:126:TYR:N	31:BL:126:TYR:CD1	2.76	0.52
32:BM:137:LEU:HD13	32:BM:138:GLY:N	2.24	0.52
33:BN:39:GLU:HG3	33:BN:41:THR:N	2.23	0.52
33:BN:69:THR:HG22	33:BN:70:ALA:H	1.72	0.52
34:BO:93:ILE:CD1	34:BO:116:LYS:HZ3	2.19	0.52
35:BP:101:LEU:HD12	35:BP:137:LEU:CD1	2.27	0.52
40:BU:16:ARG:HH11	40:BU:17:LYS:HA	1.74	0.52
40:BU:56:VAL:HA	40:BU:105:VAL:O	2.09	0.52
42:B0:111:ARG:NH2	42:B0:113:LYS:HD3	2.15	0.52
1:AA:118:U:H1'	1:AA:122:G:H1'	1.87	0.52
1:AA:299:G:H2'	1:AA:300:A:C8	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:520:A:H4'	12:AL:90:ASP:CB	2.39	0.52
1:AA:523:A:C2	12:AL:115:GLY:C	2.83	0.52
1:AA:551:U:HO2'	12:AL:105:ALA:HB1	1.68	0.52
1:AA:778:G:C2	11:AK:132:ARG:NH2	2.76	0.52
1:AA:853:G:O2'	1:AA:854:G:H5'	2.09	0.52
1:AA:1016:A:C4'	1:AA:1216:G:H21	2.22	0.52
1:AA:1316:G:C6	17:AS:49:MET:CB	2.92	0.52
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.45	0.52
2:AT:88:GLU:CD	2:AT:223:ARG:HH21	2.13	0.52
2:AT:110:ASP:C	2:AT:483:PHE:HB2	2.30	0.52
2:AT:464:LEU:CB	2:AT:509:LYS:O	2.58	0.52
2:AT:758:GLU:HG3	2:AT:767:THR:OG1	2.09	0.52
5:AD:85:VAL:HG13	5:AD:86:LEU:N	2.24	0.52
5:AD:168:ARG:HB3	5:AD:169:PRO:HD3	1.90	0.52
7:AG:121:ASN:OD1	7:AG:128:PRO:HD3	2.09	0.52
9:AI:97:ASP:O	9:AI:105:LYS:N	2.43	0.52
10:AJ:70:THR:OG1	14:AN:41:CYS:N	2.42	0.52
12:AL:62:LYS:O	12:AL:63:GLN:HB2	2.08	0.52
12:AL:93:LEU:HD22	12:AL:93:LEU:N	2.25	0.52
15:AO:120:ARG:HB2	15:AO:120:ARG:HH11	1.72	0.52
18:B3:112:G:C8	18:B3:114:A:H1'	2.40	0.52
18:B3:449:A:C5'	18:B3:1306:U:C2	2.79	0.52
18:B3:762:C:N4	41:BV:23:LYS:NZ	2.48	0.52
18:B3:1007:A:N6	28:BI:19:LYS:HD2	2.24	0.52
18:B3:1024:G:H2'	25:BF:104:LEU:CD1	2.36	0.52
18:B3:1139:U:H4'	32:BM:129:LYS:HE2	1.91	0.52
18:B3:1244:U:P	32:BM:14:LEU:CD1	2.85	0.52
18:B3:1244:U:H6	32:BM:43:SER:HG	1.51	0.52
18:B3:1448:A:O3'	39:BT:110:ASN:OD1	2.26	0.52
18:B3:1729:A:H2	18:B3:2840:A:O2'	1.91	0.52
18:B3:1847:A:H5"	21:BB:178:LEU:HG	1.91	0.52
18:B3:2166:G:OP2	20:BA:59:PRO:O	2.27	0.52
18:B3:2237:G:O2'	18:B3:2238:A:C8	2.60	0.52
18:B3:2337:G:O2'	29:BJ:127:TYR:HA	2.07	0.52
18:B3:2346:C:C5'	29:BJ:47:SER:N	2.64	0.52
18:B3:2442:G:C5'	41:BV:60:PHE:CE2	2.66	0.52
18:B3:2468:A:C4	46:BZ:55:PRO:CD	2.91	0.52
18:B3:2615:U:C5'	22:BC:240:LYS:HG3	2.39	0.52
18:B3:2720:C:O2	37:BR:84:SER:CB	2.57	0.52
18:B3:2820:A:C5'	22:BC:102:THR:H	2.16	0.52
19:B4:6:C:O3'	24:BE:48:LYS:HD2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:49:G:C5'	24:BE:99:TYR:HE2	2.22	0.52
20:BA:90:LEU:HD11	20:BA:120:VAL:N	2.24	0.52
20:BA:179:LEU:HD13	20:BA:179:LEU:C	2.29	0.52
21:BB:19:THR:HG23	21:BB:20:ARG:N	2.24	0.52
21:BB:101:LEU:HD22	21:BB:101:LEU:C	2.28	0.52
21:BB:101:LEU:HD13	21:BB:102:PRO:O	2.10	0.52
21:BB:134:ILE:HD13	21:BB:136:ILE:HG12	1.91	0.52
21:BB:149:LEU:CB	21:BB:150:PRO:HD2	2.38	0.52
21:BB:157:ILE:HD13	21:BB:157:ILE:C	2.29	0.52
21:BB:175:ASP:OD2	47:B9:68:TYR:CE1	2.63	0.52
22:BC:112:GLU:HG2	22:BC:173:LYS:C	2.29	0.52
22:BC:113:VAL:HG13	22:BC:117:PHE:CE1	2.37	0.52
22:BC:228:VAL:CB	22:BC:232:TRP:CZ2	2.93	0.52
23:BD:37:VAL:C	23:BD:38:PHE:HD1	2.13	0.52
23:BD:135:LEU:HG	23:BD:135:LEU:O	2.08	0.52
24:BE:95:TRP:CG	24:BE:158:ARG:HG2	2.45	0.52
24:BE:131:LEU:HG	24:BE:132:THR:H	1.73	0.52
25:BF:150:ARG:HA	25:BF:150:ARG:NE	2.23	0.52
27:BH:46:THR:HA	27:BH:55:VAL:HB	1.92	0.52
27:BH:63:LYS:CG	32:BM:131:GLY:H	2.21	0.52
27:BH:128:VAL:HG12	27:BH:129:ARG:O	2.09	0.52
29:BJ:96:SER:CB	29:BJ:101:PHE:CE2	2.93	0.52
31:BL:52:TYR:HB2	31:BL:132:ILE:CD1	2.39	0.52
31:BL:158:ARG:HB3	31:BL:158:ARG:CZ	2.39	0.52
31:BL:168:LYS:CD	31:BL:169:LYS:HG2	2.39	0.52
32:BM:52:LYS:N	32:BM:58:ARG:HG2	2.23	0.52
35:BP:11:ALA:O	35:BP:18:LYS:HE3	2.09	0.52
35:BP:62:THR:O	35:BP:62:THR:HG23	2.09	0.52
35:BP:117:HIS:HB2	35:BP:118:LEU:CD1	2.39	0.52
36:BQ:42:ILE:HA	36:BQ:95:HIS:CE1	2.45	0.52
36:BQ:75:ILE:CB	36:BQ:89:LEU:HB3	2.39	0.52
37:BR:39:VAL:HG12	37:BR:58:VAL:CG1	2.39	0.52
39:BT:132:LEU:HG	39:BT:133:ASP:N	2.24	0.52
40:BU:60:ARG:HA	40:BU:60:ARG:HH11	1.74	0.52
41:BV:87:ASP:HB3	41:BV:89:TYR:CE1	2.44	0.52
41:BV:129:VAL:CG2	41:BV:133:ALA:HB3	2.39	0.52
42:B0:14:THR:HG21	42:B0:57:TYR:CD2	2.44	0.52
42:B0:85:LEU:HG	42:B0:117:ILE:CG2	2.40	0.52
43:BW:27:ARG:HB2	43:BW:63:VAL:O	2.10	0.52
46:BZ:66:LYS:HE2	46:BZ:86:ARG:HD2	1.92	0.52
47:B9:32:GLN:HG2	47:B9:68:TYR:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:55:A:C2	2:AT:68:ILE:CG1	2.92	0.52
1:AA:357:G:O2'	1:AA:358:U:H5'	2.10	0.52
1:AA:977:A:C2'	1:AA:978:A:H5"	2.37	0.52
1:AA:983:A:H5'	1:AA:984:C:OP2	2.09	0.52
1:AA:988:G:N9	1:AA:1015:A:N7	2.58	0.52
2:AT:88:GLU:OE2	2:AT:223:ARG:NH2	2.43	0.52
4:AC:161:GLN:HA	4:AC:161:GLN:NE2	2.25	0.52
8:AH:36:PHE:HA	8:AH:109:ILE:CD1	2.39	0.52
9:AI:96:VAL:HG13	9:AI:104:LEU:CB	2.39	0.52
9:AI:97:ASP:C	9:AI:104:LEU:N	2.63	0.52
9:AI:122:ARG:CB	9:AI:123:PRO:HD2	2.34	0.52
12:AL:56:LYS:HA	12:AL:72:VAL:HG12	1.91	0.52
12:AL:93:LEU:C	12:AL:94:ASN:HD22	2.12	0.52
18:B3:28:G:H4'	18:B3:1317:A:C2	2.44	0.52
18:B3:52:A:H5'	45:BY:20:ARG:NH1	2.09	0.52
18:B3:67:A:C1'	39:BT:60:LYS:HZ2	2.22	0.52
18:B3:164:G:H5"	41:BV:31:ARG:CG	2.40	0.52
18:B3:541:C:P	42:B0:15:LYS:CD	2.97	0.52
18:B3:629:A:H5'	42:B0:39:ASP:CA	2.39	0.52
18:B3:1002:G:H2'	28:BI:90:ARG:NH2	2.07	0.52
18:B3:1131:G:C4	18:B3:2523:U:P	3.01	0.52
18:B3:1134:G:O4'	18:B3:1229:C:H5'	2.09	0.52
18:B3:1295:G:OP1	41:BV:19:GLY:N	2.42	0.52
18:B3:1351:G:H5'	23:BD:46:ARG:HB2	1.92	0.52
18:B3:1675:C:C5	39:BT:112:LEU:HA	2.45	0.52
18:B3:1705:C:H5"	35:BP:62:THR:HG1	1.72	0.52
18:B3:1805:G:C4	18:B3:2883:A:C2	2.98	0.52
18:B3:2214:A:C4	20:BA:106:LYS:HD2	2.45	0.52
18:B3:2345:A:OP1	18:B3:2346:C:H5	1.92	0.52
18:B3:2396:C:O2'	41:BV:46:LYS:CD	2.57	0.52
18:B3:2861:G:O2'	22:BC:364:PHE:CE1	2.62	0.52
18:B3:2912:C:H2'	18:B3:2913:A:O4'	2.09	0.52
20:BA:24:LYS:HD2	20:BA:25:LYS:HB3	1.91	0.52
20:BA:63:MET:CE	20:BA:159:LEU:C	2.78	0.52
21:BB:106:VAL:HG13	21:BB:135:ILE:CD1	2.39	0.52
21:BB:116:GLU:CG	21:BB:162:ARG:HE	2.17	0.52
22:BC:69:ARG:HD3	37:BR:89:ASP:HA	1.86	0.52
22:BC:112:GLU:O	22:BC:173:LYS:HB2	2.09	0.52
22:BC:238:PRO:HB2	22:BC:240:LYS:NZ	2.23	0.52
22:BC:358:ILE:C	38:BS:16:GLY:H	2.13	0.52
22:BC:359:ASP:HB2	38:BS:16:GLY:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:149:LEU:O	23:BD:248:ILE:HA	2.09	0.52
24:BE:157:ALA:HB3	24:BE:160:PHE:HD2	1.68	0.52
25:BF:94:ILE:HD12	25:BF:94:ILE:C	2.30	0.52
25:BF:157:LYS:HE2	25:BF:159:ARG:NH2	2.25	0.52
27:BH:92:TYR:CD1	27:BH:101:VAL:HG21	2.44	0.52
28:BI:103:LEU:HB2	28:BI:118:ALA:HB3	1.90	0.52
29:BJ:91:ARG:HD2	29:BJ:92:ASP:N	2.25	0.52
29:BJ:132:ARG:HB2	29:BJ:133:PRO:CD	2.40	0.52
33:BN:25:PHE:CZ	33:BN:28:THR:CG2	2.92	0.52
35:BP:11:ALA:HB2	35:BP:16:VAL:CG2	2.38	0.52
36:BQ:31:LEU:HD13	36:BQ:31:LEU:C	2.29	0.52
39:BT:134:ILE:O	39:BT:134:ILE:HG23	2.10	0.52
42:B0:15:LYS:HE3	42:B0:16:LYS:O	2.09	0.52
42:B0:19:ARG:CB	42:B0:32:TRP:HA	2.35	0.52
42:B0:106:VAL:HG12	42:B0:106:VAL:O	2.09	0.52
44:BX:40:SER:HB3	44:BX:44:ILE:HG22	1.92	0.52
45:BY:37:GLY:H	45:BY:44:ARG:CB	2.23	0.52
47:B9:60:LYS:HD3	47:B9:60:LYS:N	2.24	0.52
1:AA:246:A:N6	1:AA:281:G:H1'	2.24	0.52
1:AA:281:G:O2'	1:AA:282:A:P	2.67	0.52
1:AA:403:C:H5'	1:AA:620:C:O2	2.10	0.52
1:AA:404:U:C2	5:AD:19:TYR:OH	2.59	0.52
1:AA:405:U:N3	5:AD:26:ALA:HB3	2.25	0.52
1:AA:921:U:H5'	1:AA:1081:G:H5'	1.91	0.52
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.92	0.52
1:AA:1319:A:C8	17:AS:49:MET:SD	3.01	0.52
1:AA:1499:A:C5'	1:AA:1520:G:O2'	2.57	0.52
1:AA:1501:C:OP1	1:AA:1508:G:H8	1.78	0.52
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.45	0.52
2:AT:539:GLU:CD	18:B3:2699:A:H4'	2.24	0.52
2:AT:748:ASN:C	18:B3:2508:C:H1'	2.30	0.52
3:AB:132:ILE:HD12	3:AB:142:VAL:CG1	2.39	0.52
7:AG:110:VAL:HG23	7:AG:111:ARG:N	2.23	0.52
9:AI:30:VAL:HG13	9:AI:30:VAL:O	2.09	0.52
9:AI:50:PRO:HD3	9:AI:115:LEU:HD11	1.91	0.52
9:AI:68:VAL:O	9:AI:68:VAL:HG13	2.09	0.52
10:AJ:51:VAL:HG13	10:AJ:51:VAL:O	2.09	0.52
10:AJ:58:LEU:HG	10:AJ:90:TYR:HD2	1.71	0.52
10:AJ:97:VAL:H	10:AJ:99:ILE:HG13	1.75	0.52
13:AM:90:ASN:OD1	13:AM:109:LEU:HB2	2.10	0.52
18:B3:155:C:OP2	31:BL:190:TRP:CG	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:265:U:OP1	31:BL:54:ALA:N	2.43	0.52
18:B3:646:G:C4'	23:BD:106:ARG:HH21	2.14	0.52
18:B3:1359:U:O4	23:BD:71:ALA:O	2.27	0.52
18:B3:1530:U:P	21:BB:69:ARG:HD3	2.50	0.52
18:B3:1875:A:C2	21:BB:151:SER:HB2	2.44	0.52
18:B3:2381:C:H4'	46:BZ:8:LYS:CE	2.40	0.52
18:B3:2472:C:O2'	18:B3:2634:G:H4'	2.10	0.52
18:B3:2557:U:C2'	18:B3:2800:A:H8	2.23	0.52
18:B3:2656:G:OP1	22:BC:17:PRO:O	2.28	0.52
19:B4:118:C:P	24:BE:70:THR:OG1	2.66	0.52
20:BA:8:GLN:NE2	20:BA:216:LEU:HD11	2.24	0.52
20:BA:102:LYS:HG3	20:BA:105:LYS:CE	2.37	0.52
21:BB:220:LYS:HB2	21:BB:220:LYS:NZ	2.25	0.52
22:BC:7:ALA:N	22:BC:8:PRO:HA	2.25	0.52
22:BC:341:LEU:O	22:BC:341:LEU:HG	2.09	0.52
22:BC:358:ILE:C	38:BS:16:GLY:N	2.63	0.52
26:BG:119:LYS:HB2	26:BG:188:LEU:CG	2.39	0.52
27:BH:8:GLN:C	27:BH:54:LYS:HG2	2.30	0.52
27:BH:10:ILE:HG22	27:BH:54:LYS:HD2	1.90	0.52
27:BH:20:ILE:CB	27:BH:25:VAL:HA	2.40	0.52
27:BH:27:VAL:HG23	27:BH:34:LEU:O	2.10	0.52
28:BI:76:MET:HE1	28:BI:151:GLY:HA3	1.91	0.52
29:BJ:13:ILE:HD13	29:BJ:16:LEU:CD1	2.39	0.52
29:BJ:67:HIS:O	29:BJ:68:VAL:HG23	2.10	0.52
30:BK:139:VAL:HG22	30:BK:139:VAL:O	2.09	0.52
31:BL:117:SER:OG	31:BL:130:GLU:HB3	2.09	0.52
32:BM:13:HIS:HD2	32:BM:14:LEU:O	1.93	0.52
32:BM:35:VAL:HG12	32:BM:36:ARG:H	1.75	0.52
33:BN:9:ASN:HB3	33:BN:11:ALA:N	2.25	0.52
33:BN:30:GLU:CD	33:BN:81:ARG:HH22	2.13	0.52
34:BO:83:VAL:HG22	34:BO:103:ALA:CB	2.40	0.52
35:BP:42:LYS:H	35:BP:44:VAL:HG12	1.75	0.52
35:BP:62:THR:HA	35:BP:65:HIS:CD2	2.36	0.52
35:BP:63:ARG:NH1	35:BP:65:HIS:H	2.07	0.52
37:BR:102:ILE:HD13	37:BR:102:ILE:O	2.09	0.52
39:BT:63:GLU:HG3	39:BT:64:GLN:N	2.17	0.52
43:BW:16:HIS:HB2	43:BW:30:ARG:NE	2.25	0.52
44:BX:20:GLN:HA	44:BX:23:ASP:CG	2.30	0.52
44:BX:51:ILE:HG23	44:BX:52:ALA:N	2.24	0.52
45:BY:32:THR:HB	45:BY:38:TYR:HD1	1.70	0.52
1:AA:69:G:OP2	1:AA:172:A:C2'	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:125:U:H5”	1:AA:291:C:C1’	2.40	0.52
1:AA:148:G:H2’	1:AA:149:A:C8	2.45	0.52
1:AA:568:G:OP1	6:AE:202:LYS:NZ	2.41	0.52
1:AA:728:A:N1	15:AO:108:LYS:NZ	2.37	0.52
1:AA:956:U:C4’	17:AS:126:VAL:CG1	2.87	0.52
1:AA:992:U:O2’	1:AA:993:G:OP2	2.26	0.52
1:AA:1167:A:H2’	1:AA:1168:A:C8	2.44	0.52
2:AT:501:LEU:HB2	2:AT:502:PRO:HD3	1.90	0.52
2:AT:757:GLU:CB	18:B3:1171:A:C1’	2.88	0.52
3:AB:37:PHE:HB2	3:AB:48:ASN:HB3	1.91	0.52
3:AB:64:ALA:O	3:AB:183:LEU:HD22	2.09	0.52
4:AC:46:GLU:HA	4:AC:46:GLU:OE1	2.09	0.52
4:AC:174:VAL:HG12	4:AC:174:VAL:O	2.09	0.52
5:AD:148:VAL:HG13	5:AD:154:LYS:HZ2	1.75	0.52
6:AE:153:LEU:HD11	6:AE:220:THR:HG21	1.88	0.52
9:AI:88:LEU:CD2	9:AI:104:LEU:HD22	2.37	0.52
10:AJ:24:ILE:HG22	10:AJ:26:LEU:HD12	1.92	0.52
12:AL:117:ILE:CG1	12:AL:120:VAL:HG21	2.40	0.52
13:AM:28:ILE:HG13	13:AM:32:LEU:HD13	1.91	0.52
13:AM:91:ASP:HA	13:AM:109:LEU:CG	2.40	0.52
14:AN:36:ASN:HB3	14:AN:42:PHE:N	2.24	0.52
18:B3:26:U:H1’	18:B3:1320:U:C6	2.44	0.52
18:B3:511:A:OP2	18:B3:517:U:OP1	2.27	0.52
18:B3:905:C:N3	18:B3:1330:A:N3	2.57	0.52
18:B3:1096:U:C3’	25:BF:213:TRP:HZ3	2.23	0.52
18:B3:1233:A:N6	18:B3:2526:C:C6	2.78	0.52
18:B3:1398:G:H2’	18:B3:1399:A:C8	2.44	0.52
18:B3:1816:C:OP1	18:B3:2747:C:OP1	2.28	0.52
18:B3:2093:G:OP1	22:BC:250:CYS:HA	2.09	0.52
18:B3:2275:G:C8	31:BL:80:TYR:CD2	2.92	0.52
18:B3:2344:G:N1	29:BJ:56:PHE:CZ	2.51	0.52
18:B3:2858:U:H2’	18:B3:2859:C:C6	2.44	0.52
19:B4:35:C:OP2	24:BE:185:PHE:CZ	2.58	0.52
21:BB:79:GLU:CG	21:BB:80:GLY:H	2.14	0.52
22:BC:46:LEU:HD13	22:BC:338:ARG:CG	2.40	0.52
22:BC:46:LEU:HB2	22:BC:338:ARG:H	1.75	0.52
23:BD:160:LYS:HE2	23:BD:163:GLU:CG	2.40	0.52
23:BD:168:LEU:HD12	23:BD:169:LYS:H	1.71	0.52
24:BE:177:GLU:HG2	24:BE:178:ASN:N	2.25	0.52
26:BG:149:LEU:HD11	26:BG:214:VAL:HG11	1.91	0.52
28:BI:121:LYS:HZ2	28:BI:121:LYS:C	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:8:MET:HG3	29:BJ:9:ARG:HE	1.73	0.52
29:BJ:13:ILE:HD13	29:BJ:16:LEU:HD12	1.90	0.52
29:BJ:39:LEU:O	29:BJ:40:SER:HB2	2.09	0.52
29:BJ:70:VAL:O	29:BJ:71:ARG:HB3	2.09	0.52
30:BK:64:ILE:HG12	30:BK:70:ALA:HB2	1.92	0.52
31:BL:60:ILE:HG21	31:BL:132:ILE:HG12	1.88	0.52
31:BL:122:GLN:HG3	31:BL:128:TYR:CE1	2.43	0.52
31:BL:178:LYS:O	31:BL:179:PHE:HB2	2.09	0.52
34:BO:72:LYS:HB2	34:BO:74:GLU:CG	2.39	0.52
38:BS:51:TRP:CH2	38:BS:56:ARG:HD2	2.45	0.52
40:BU:14:LYS:NZ	40:BU:15:ALA:H	2.06	0.52
40:BU:63:LYS:HG2	40:BU:63:LYS:O	2.09	0.52
41:BV:82:PRO:CD	41:BV:120:VAL:HG13	2.26	0.52
1:AA:21:G:C1'	1:AA:885:G:C4'	2.85	0.52
1:AA:55:A:N3	2:AT:67:GLY:C	2.41	0.52
1:AA:292:G:C1'	1:AA:608:A:C5	2.53	0.52
1:AA:346:G:H2'	1:AA:347:G:H5'	1.91	0.52
1:AA:552:U:C5'	12:AL:106:GLY:O	2.55	0.52
1:AA:560:U:C2	1:AA:563:A:C5'	2.93	0.52
1:AA:618:C:OP1	5:AD:140:ILE:O	2.28	0.52
1:AA:988:G:C1'	1:AA:1015:A:C8	2.93	0.52
1:AA:1003(A):G:N1	1:AA:1004:A:H1'	2.25	0.52
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.10	0.52
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.45	0.52
4:AC:105:LYS:HG2	4:AC:172:ARG:HB3	1.91	0.52
4:AC:157:ILE:O	4:AC:158:HIS:HB2	2.10	0.52
6:AE:156:LYS:O	8:AH:127:PHE:CE2	2.63	0.52
9:AI:13:LYS:NZ	9:AI:74:VAL:HG12	2.24	0.52
9:AI:52:LEU:HG	9:AI:57:ASP:CG	2.29	0.52
9:AI:54:VAL:CG1	9:AI:88:LEU:HD21	2.35	0.52
10:AJ:21:LYS:HG2	10:AJ:21:LYS:O	2.09	0.52
10:AJ:22:ILE:HG23	10:AJ:116:VAL:CG1	2.40	0.52
13:AM:56:LYS:HE3	13:AM:60:GLU:HG3	1.91	0.52
18:B3:81:G:OP1	40:BU:72:SER:O	2.28	0.52
18:B3:107:U:O2'	44:BX:56:THR:CA	2.55	0.52
18:B3:282:C:O2'	18:B3:283:U:C4'	2.57	0.52
18:B3:559:U:O2'	18:B3:560:C:H5'	2.10	0.52
18:B3:721:A:N3	34:BO:141:ARG:HG3	2.25	0.52
18:B3:722:G:H1'	34:BO:141:ARG:NE	2.24	0.52
18:B3:790:A:H2'	18:B3:791:A:O4'	2.09	0.52
18:B3:797:A:C2'	18:B3:798:G:C1'	2.79	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1115:U:O3'	18:B3:1140:C:O2	2.28	0.52
18:B3:1154:A:OP2	18:B3:1156:C:C5	2.61	0.52
18:B3:1217:G:H2'	18:B3:1218:U:H6	1.75	0.52
18:B3:1597:A:C4'	35:BP:94:TRP:CH2	2.93	0.52
18:B3:1673:U:OP1	39:BT:110:ASN:HA	2.09	0.52
18:B3:1993:C:C5'	37:BR:71:LYS:CA	1.94	0.52
18:B3:2166:G:N7	20:BA:60:ARG:C	2.59	0.52
18:B3:2846:C:C2'	22:BC:172:GLN:CD	2.78	0.52
19:B4:7:G:H8	24:BE:22:ARG:CG	2.20	0.52
21:BB:176:LYS:HA	21:BB:176:LYS:NZ	2.24	0.52
22:BC:89:VAL:CG2	22:BC:158:ARG:HG2	2.40	0.52
22:BC:214:ILE:CD1	22:BC:340:SER:HA	2.40	0.52
22:BC:229:THR:HG22	22:BC:246:ARG:HG3	1.91	0.52
23:BD:207:VAL:H	23:BD:224:VAL:CG2	2.23	0.52
23:BD:230:ALA:O	23:BD:231:SER:HB3	2.04	0.52
26:BG:104:LYS:HE2	26:BG:180:LYS:HB2	1.90	0.52
27:BH:26:LYS:HE3	27:BH:26:LYS:O	2.10	0.52
27:BH:63:LYS:CG	32:BM:131:GLY:N	2.73	0.52
27:BH:113:GLU:O	27:BH:125:ASN:HB2	2.09	0.52
27:BH:129:ARG:HH11	27:BH:156:GLN:NE2	2.08	0.52
28:BI:76:MET:HE2	28:BI:151:GLY:HA3	1.92	0.52
29:BJ:8:MET:CG	29:BJ:9:ARG:HE	2.23	0.52
29:BJ:71:ARG:HH21	29:BJ:72:GLY:HA2	1.75	0.52
29:BJ:78:ILE:O	29:BJ:79:LEU:HB3	2.09	0.52
29:BJ:160:SER:O	29:BJ:161:TRP:HB2	2.09	0.52
32:BM:11:LYS:HG2	32:BM:12:GLY:H	1.75	0.52
33:BN:114:SER:HB3	33:BN:148:VAL:CG1	2.39	0.52
34:BO:60:PRO:HB2	34:BO:61:PRO:HA	1.92	0.52
35:BP:40:ILE:CA	35:BP:43:LEU:HD21	2.33	0.52
39:BT:74:LYS:HG2	39:BT:81:LEU:HB3	1.91	0.52
41:BV:11:ARG:HG2	41:BV:12:GLY:H	1.73	0.52
41:BV:131:LYS:HA	41:BV:131:LYS:CE	2.30	0.52
47:B9:21:LEU:O	47:B9:22:ARG:HB3	2.09	0.52
47:B9:60:LYS:O	47:B9:60:LYS:HG2	2.10	0.52
1:AA:16:A:C2	1:AA:919:A:C2	2.98	0.52
1:AA:144:G:P	1:AA:200:G:C3'	2.84	0.52
1:AA:255:G:O6	1:AA:266:G:O6	2.28	0.52
1:AA:293:G:HO2'	1:AA:609:A:H2	1.30	0.52
1:AA:1277:C:C2'	1:AA:1278:U:H5'	2.40	0.52
1:AA:1297:C:C3'	13:AM:56:LYS:CA	2.52	0.52
1:AA:1318:A:O2'	17:AS:83:MET:C	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:144:ARG:HB3	2:AT:481:MET:O	2.10	0.52
2:AT:736:PRO:HB2	2:AT:738:GLN:OE1	2.10	0.52
3:AB:70:GLU:CB	3:AB:118:ARG:HG3	2.40	0.52
3:AB:108:ASN:HD22	3:AB:111:THR:CB	2.22	0.52
4:AC:161:GLN:HA	4:AC:161:GLN:HE21	1.75	0.52
6:AE:124:ILE:O	6:AE:128:ILE:HG13	2.10	0.52
7:AG:84:ALA:HB3	7:AG:89:ILE:HD11	1.89	0.52
7:AG:138:ASN:HD21	7:AG:202:LYS:HD2	1.74	0.52
8:AH:45:TYR:CE2	8:AH:100:TYR:HE2	2.27	0.52
10:AJ:25:THR:O	10:AJ:25:THR:HG23	2.10	0.52
10:AJ:52:LYS:HE2	10:AJ:93:LEU:HB2	1.92	0.52
11:AK:90:THR:HG22	11:AK:91:LYS:N	2.24	0.52
12:AL:130:VAL:O	12:AL:131:SER:HB2	2.09	0.52
13:AM:26:ILE:HG23	13:AM:27:LYS:O	2.09	0.52
14:AN:36:ASN:HA	14:AN:41:CYS:HB2	1.92	0.52
16:AQ:81:ARG:HA	16:AQ:110:VAL:O	2.09	0.52
18:B3:218:C:N4	41:BV:54:LYS:NZ	2.57	0.52
18:B3:236:A:H4'	18:B3:237:G:OP1	2.10	0.52
18:B3:503:G:H2'	18:B3:504:G:H8	1.74	0.52
18:B3:857:A:C4'	21:BB:185:PHE:CG	2.86	0.52
18:B3:952:G:H5"	36:BQ:14:MET:CG	2.40	0.52
18:B3:1268:C:C5'	42:B0:61:LYS:CB	2.85	0.52
18:B3:1309:U:H2'	18:B3:1310:U:C5'	2.40	0.52
18:B3:1348:A:H5"	23:BD:241:ALA:CB	2.15	0.52
18:B3:1708:C:C5	35:BP:81:LYS:CB	2.86	0.52
18:B3:1708:C:H5'	35:BP:87:ARG:HG3	1.91	0.52
18:B3:1717:A:P	35:BP:55:THR:CG2	2.97	0.52
18:B3:1788:U:O2'	18:B3:2882:G:N7	2.43	0.52
18:B3:2101:A:H5"	23:BD:70:VAL:O	2.09	0.52
18:B3:2846:C:H4'	22:BC:174:LYS:HE3	1.86	0.52
18:B3:2862:G:H5'	38:BS:35:LYS:HD2	1.92	0.52
19:B4:11:A:N3	24:BE:12:TYR:N	2.50	0.52
21:BB:61:VAL:O	21:BB:62:PHE:HB3	2.10	0.52
22:BC:69:ARG:CD	37:BR:89:ASP:HA	2.40	0.52
22:BC:121:TRP:HD1	22:BC:122:TYR:N	2.08	0.52
22:BC:255:HIS:HB3	22:BC:256:PRO:CD	2.38	0.52
23:BD:165:VAL:HA	23:BD:168:LEU:CG	2.39	0.52
23:BD:186:LEU:HD23	23:BD:186:LEU:H	1.75	0.52
24:BE:80:SER:C	24:BE:92:LEU:HD13	2.31	0.52
24:BE:83:LEU:CG	24:BE:104:LEU:HD13	2.39	0.52
26:BG:135:LEU:O	26:BG:138:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:18:VAL:HG11	27:BH:53:ILE:HG23	1.92	0.52
27:BH:68:LEU:H	27:BH:71:VAL:HG23	1.74	0.52
27:BH:129:ARG:CD	27:BH:156:GLN:HE22	2.23	0.52
28:BI:73:ASN:O	28:BI:76:MET:HB2	2.10	0.52
28:BI:98:ARG:HB2	28:BI:120:GLY:CA	2.40	0.52
28:BI:121:LYS:HD3	28:BI:121:LYS:O	2.10	0.52
28:BI:153:ARG:HH22	28:BI:154:ARG:HG2	1.75	0.52
29:BJ:48:LYS:HZ2	29:BJ:62:GLU:HG3	1.75	0.52
29:BJ:136:ARG:NE	29:BJ:137:VAL:HA	2.24	0.52
31:BL:3:TYR:HB3	31:BL:45:ASP:HB2	1.91	0.52
31:BL:13:LYS:NZ	31:BL:18:LEU:HG	2.24	0.52
31:BL:46:LYS:HB3	31:BL:118:TYR:OH	2.10	0.52
31:BL:134:VAL:HG11	31:BL:150:ILE:HG13	1.91	0.52
32:BM:79:PHE:CZ	32:BM:103:VAL:CB	2.93	0.52
32:BM:79:PHE:N	32:BM:79:PHE:CD1	2.78	0.52
32:BM:98:LEU:O	32:BM:101:LEU:HD13	2.10	0.52
33:BN:37:GLY:H	33:BN:113:VAL:CG1	2.17	0.52
33:BN:106:LEU:HD13	33:BN:106:LEU:N	2.25	0.52
34:BO:116:LYS:HG2	34:BO:117:ALA:N	2.22	0.52
35:BP:10:ALA:CB	35:BP:22:TRP:CZ2	2.93	0.52
37:BR:54:LEU:HG	37:BR:85:TRP:HZ2	1.75	0.52
37:BR:136:VAL:HG23	37:BR:137:VAL:HG23	1.91	0.52
41:BV:116:ARG:C	41:BV:117:ILE:HG12	2.29	0.52
41:BV:131:LYS:HE2	41:BV:131:LYS:CA	2.31	0.52
1:AA:59:A:C4'	1:AA:388:G:C4	2.92	0.52
1:AA:190(F):G:N9	1:AA:265:G:OP1	2.41	0.52
1:AA:791:G:H2'	1:AA:792:A:C5'	2.40	0.52
1:AA:818:G:O2'	1:AA:819:A:H5"	2.09	0.52
1:AA:1314:C:C5	17:AS:49:MET:C	2.82	0.52
1:AA:1321:C:N4	17:AS:81:ARG:HG3	2.25	0.52
1:AA:1343:G:O4'	9:AI:138:GLN:OE1	2.27	0.52
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.10	0.52
3:AB:35:TYR:CD1	3:AB:160:PRO:HG3	2.45	0.52
4:AC:6:LYS:HE3	4:AC:6:LYS:CA	2.29	0.52
5:AD:100:LYS:CB	5:AD:191:ALA:HB3	2.38	0.52
6:AE:169:ILE:HG23	6:AE:196:TYR:HB3	1.88	0.52
6:AE:182:ALA:O	6:AE:185:LYS:HG2	2.10	0.52
7:AG:189:ILE:HG22	7:AG:193:LEU:HD13	1.91	0.52
10:AJ:54:GLY:C	10:AJ:91:ILE:HG23	2.30	0.52
11:AK:40:ARG:NH2	11:AK:45:MET:HA	2.25	0.52
11:AK:98:GLN:OE1	11:AK:101:LEU:HD23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:61:SER:HB3	12:AL:65:ASN:O	2.10	0.52
14:AN:37:ILE:HG23	14:AN:38:CYS:N	2.25	0.52
18:B3:123:U:C2	39:BT:88:LYS:HE3	2.44	0.52
18:B3:618:G:C1'	42:B0:41:VAL:CG2	2.87	0.52
18:B3:771:G:OP1	31:BL:76:LYS:CG	2.58	0.52
18:B3:793:A:OP1	35:BP:85:GLU:HB3	2.10	0.52
18:B3:873:G:H21	18:B3:876:A:H62	1.56	0.52
18:B3:1010:C:O4'	24:BE:15:ARG:CD	2.28	0.52
18:B3:1596:U:OP2	35:BP:102:ARG:HD3	2.10	0.52
18:B3:1616:A:H2'	18:B3:1618:G:C8	2.46	0.52
18:B3:1814:G:C8	18:B3:2731:G:N3	2.78	0.52
18:B3:2134:G:C8	18:B3:2258:A:C6	2.97	0.52
18:B3:2165:G:OP2	20:BA:59:PRO:HB3	2.10	0.52
18:B3:2338:G:O2'	18:B3:2339:A:P	2.67	0.52
18:B3:2394:A:O4'	36:BQ:83:ARG:NH2	2.43	0.52
18:B3:2906:A:H5'	18:B3:2907:C:O4'	2.10	0.52
19:B4:8:G:C5	24:BE:21:ARG:CD	2.85	0.52
19:B4:85:A:H4'	25:BF:131:PRO:CB	2.23	0.52
20:BA:196:LYS:O	20:BA:197:ASN:HB2	2.10	0.52
21:BB:118:LYS:HB3	21:BB:119:PRO:HD2	1.92	0.52
21:BB:190:LEU:H	21:BB:190:LEU:CD2	2.20	0.52
22:BC:210:GLN:HG2	22:BC:284:VAL:HG23	1.92	0.52
23:BD:33:ILE:HD12	23:BD:33:ILE:H	1.75	0.52
23:BD:106:ARG:HD3	23:BD:106:ARG:C	2.30	0.52
24:BE:207:TYR:CG	24:BE:208:MET:N	2.77	0.52
25:BF:106:ARG:HB2	25:BF:114:THR:HG21	1.92	0.52
25:BF:168:ILE:CD1	25:BF:168:ILE:H	2.21	0.52
26:BG:121:LYS:HD3	26:BG:206:ASP:HB3	1.91	0.52
26:BG:211:ALA:C	26:BG:214:VAL:HG22	2.30	0.52
27:BH:19:SER:H	27:BH:48:VAL:HG21	1.75	0.52
27:BH:126:VAL:HB	27:BH:127:PRO:HA	1.92	0.52
29:BJ:16:LEU:C	29:BJ:70:VAL:HG13	2.29	0.52
29:BJ:44:PRO:O	29:BJ:67:HIS:HB3	2.09	0.52
30:BK:93:LYS:HE3	30:BK:96:LYS:CB	2.40	0.52
33:BN:17:ARG:HD3	33:BN:145:ILE:CG1	2.40	0.52
33:BN:111:LEU:HD12	33:BN:111:LEU:N	2.24	0.52
34:BO:44:PHE:O	34:BO:45:ASN:HB2	2.10	0.52
34:BO:46:LYS:HE3	34:BO:50:LYS:HE3	1.91	0.52
35:BP:41:ARG:CZ	35:BP:44:VAL:HB	2.39	0.52
35:BP:94:TRP:CH2	35:BP:95:ILE:CG2	2.93	0.52
39:BT:67:THR:HG23	39:BT:67:THR:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:60:ASN:HD22	42:B0:60:ASN:H	1.56	0.52
43:BW:55:ASN:HA	43:BW:58:ILE:CG2	2.39	0.52
43:BW:55:ASN:C	43:BW:58:ILE:HG22	2.30	0.52
1:AA:13:U:H4'	1:AA:914:A:H5"	1.91	0.51
1:AA:65:U:C2'	1:AA:383:A:C2	2.93	0.51
1:AA:111:G:N3	1:AA:389:A:C4'	2.73	0.51
1:AA:252:U:H2'	1:AA:253:U:C6	2.44	0.51
1:AA:552:U:H5"	12:AL:106:GLY:O	2.00	0.51
1:AA:954:G:H2'	1:AA:955:U:C6	2.44	0.51
1:AA:988:G:H3'	1:AA:1015:A:H62	1.73	0.51
1:AA:1096:C:H2'	1:AA:1097:C:H6	1.74	0.51
1:AA:1240:U:C4	7:AG:189:ILE:HG21	2.42	0.51
1:AA:1310:G:O2'	1:AA:1311:G:H5'	2.10	0.51
2:AT:156:VAL:HG21	2:AT:334:LEU:HD22	1.91	0.51
2:AT:193:ALA:CB	2:AT:200:VAL:HG11	2.40	0.51
5:AD:100:LYS:HG3	5:AD:196:GLU:N	2.25	0.51
7:AG:139:THR:O	7:AG:141:PRO:HD3	2.08	0.51
8:AH:103:LEU:HD22	8:AH:124:ILE:CA	2.32	0.51
10:AJ:71:PRO:HB3	14:AN:30:VAL:HG12	1.91	0.51
11:AK:20:ALA:O	11:AK:84:ALA:HB3	2.10	0.51
11:AK:55:SER:HA	11:AK:88:THR:CB	2.40	0.51
15:AO:90:LEU:CB	15:AO:121:ILE:HG12	2.40	0.51
17:AS:87:PRO:CG	17:AS:112:LEU:HD23	2.39	0.51
18:B3:72:C:P	44:BX:49:LYS:CE	2.97	0.51
18:B3:195:C:OP1	31:BL:179:PHE:N	2.42	0.51
18:B3:449:A:P	18:B3:1306:U:O4'	2.69	0.51
18:B3:449:A:C5	18:B3:1349:G:C2'	2.92	0.51
18:B3:660:A:OP2	34:BO:88:THR:OG1	2.27	0.51
18:B3:709:G:H5"	34:BO:43:PRO:CB	2.28	0.51
18:B3:1056:U:OP1	28:BI:99:ILE:HA	2.11	0.51
18:B3:1167:G:C2'	30:BK:111:GLU:N	2.73	0.51
18:B3:1181:A:H2	30:BK:105:GLN:CG	2.23	0.51
18:B3:1508:C:H5'	39:BT:77:ASP:CG	2.30	0.51
18:B3:1713:G:H4'	18:B3:2746:A:H5'	1.91	0.51
18:B3:1761:U:C2'	35:BP:80:ARG:CZ	2.87	0.51
18:B3:1790:C:H2'	18:B3:1791:U:C6	2.45	0.51
18:B3:2250:G:H2'	18:B3:2251:G:H8	1.72	0.51
18:B3:2347:C:H4'	29:BJ:44:PRO:HB2	1.93	0.51
18:B3:2566:A:C4'	27:BH:174:LYS:NZ	2.72	0.51
18:B3:2829:G:P	22:BC:130:THR:CG2	2.96	0.51
19:B4:36:C:OP2	24:BE:185:PHE:HE2	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:37:HIS:HB3	21:BB:39:TYR:CD2	2.45	0.51
21:BB:61:VAL:HG13	21:BB:62:PHE:CD1	2.46	0.51
21:BB:74:ILE:HD12	21:BB:74:ILE:N	2.25	0.51
22:BC:48:TYR:CE2	22:BC:334:ILE:CG2	2.93	0.51
22:BC:104:VAL:CA	22:BC:105:TRP:CE3	2.93	0.51
22:BC:159:VAL:HG22	22:BC:160:LEU:N	2.24	0.51
22:BC:162:HIS:CA	22:BC:177:LEU:HB2	2.30	0.51
22:BC:243:ARG:HD3	22:BC:243:ARG:H	1.73	0.51
22:BC:246:ARG:HD3	22:BC:246:ARG:C	2.31	0.51
22:BC:251:ILE:CG2	22:BC:259:VAL:HG21	2.37	0.51
22:BC:261:TRP:O	22:BC:263:VAL:HG13	2.10	0.51
22:BC:341:LEU:HD23	22:BC:341:LEU:N	2.22	0.51
23:BD:9:SER:OG	23:BD:15:THR:HG21	2.09	0.51
23:BD:75:ARG:HG2	23:BD:81:THR:N	2.18	0.51
23:BD:130:VAL:O	23:BD:147:ILE:HG13	2.09	0.51
24:BE:50:ARG:HB3	24:BE:147:ASP:OD1	2.10	0.51
25:BF:97:LYS:HB3	25:BF:98:PRO:CD	2.34	0.51
26:BG:110:LYS:O	26:BG:111:GLU:HB2	2.10	0.51
26:BG:111:GLU:HB2	26:BG:117:GLU:CB	2.40	0.51
26:BG:152:ILE:HD11	26:BG:162:VAL:HG11	1.92	0.51
26:BG:158:PRO:HG2	31:BL:40:ARG:HH22	1.73	0.51
28:BI:58:GLU:HB2	28:BI:128:ARG:HB3	1.90	0.51
29:BJ:94:ASN:O	29:BJ:101:PHE:HD2	1.93	0.51
30:BK:85:LEU:HD11	30:BK:102:GLY:CA	2.31	0.51
31:BL:103:GLU:HG3	31:BL:104:ARG:NH1	2.25	0.51
31:BL:119:TRP:CD1	31:BL:129:PHE:CE2	2.98	0.51
35:BP:22:TRP:CE3	35:BP:22:TRP:N	2.78	0.51
35:BP:81:LYS:O	35:BP:81:LYS:HD2	2.09	0.51
35:BP:142:ILE:HG22	35:BP:142:ILE:OXT	2.10	0.51
40:BU:35:LEU:HD12	40:BU:35:LEU:N	2.25	0.51
42:B0:90:LYS:O	42:B0:90:LYS:HG3	2.10	0.51
46:BZ:75:LYS:O	46:BZ:77:LYS:HD3	2.11	0.51
1:AA:67:C:C4	1:AA:70:G:N7	2.78	0.51
1:AA:1006:C:H2'	1:AA:1007:C:H6	1.75	0.51
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.76	0.51
1:AA:1224:G:O2'	17:AS:123:TYR:HE1	1.80	0.51
2:AT:89:ILE:HG22	2:AT:91:GLN:HB3	1.93	0.51
5:AD:30:LEU:CG	5:AD:67:PRO:HG3	2.41	0.51
5:AD:76:LEU:HD22	5:AD:76:LEU:N	2.23	0.51
5:AD:156:ILE:HG21	5:AD:164:PHE:CZ	2.44	0.51
6:AE:219:ASN:O	8:AH:45:TYR:OH	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:23:GLN:CG	8:AH:61:VAL:HG13	2.40	0.51
9:AI:76:GLN:O	9:AI:80:ILE:HG12	2.10	0.51
9:AI:97:ASP:C	9:AI:105:LYS:N	2.63	0.51
9:AI:106:LYS:HG3	9:AI:107:ALA:N	2.24	0.51
11:AK:26:PHE:CD1	11:AK:41:VAL:CG1	2.94	0.51
13:AM:18:LEU:N	13:AM:18:LEU:HD22	2.25	0.51
13:AM:46:VAL:CG2	13:AM:84:TRP:CZ2	2.94	0.51
18:B3:269:G:H5'	18:B3:274:G:O2'	2.09	0.51
18:B3:280:C:O2'	18:B3:281:U:H5'	2.10	0.51
18:B3:448:G:H3'	18:B3:1306:U:C5'	2.40	0.51
18:B3:496:G:N2	18:B3:1427:A:P	2.83	0.51
18:B3:697:G:H5"	41:BV:130:SER:OG	2.06	0.51
18:B3:949:U:C4'	36:BQ:100:LYS:CB	2.83	0.51
18:B3:1025:C:H4'	25:BF:104:LEU:HA	1.91	0.51
18:B3:1311:G:C6	23:BD:185:LYS:CB	2.81	0.51
18:B3:1315:G:H21	42:B0:107:VAL:HB	1.49	0.51
18:B3:1788:U:C3'	18:B3:2882:G:C5'	2.88	0.51
18:B3:2295:G:O3'	36:BQ:5:HIS:C	2.49	0.51
19:B4:23:U:H3	19:B4:54:A:H5"	1.74	0.51
22:BC:36:ARG:HB2	22:BC:36:ARG:NH1	2.25	0.51
22:BC:113:VAL:HG12	22:BC:113:VAL:O	2.10	0.51
22:BC:236:LYS:CD	22:BC:237:LEU:HD23	2.40	0.51
22:BC:313:TYR:OH	22:BC:332:LYS:HB2	2.10	0.51
24:BE:183:TRP:CA	24:BE:187:THR:HA	2.41	0.51
28:BI:101:LYS:O	28:BI:118:ALA:HB3	2.10	0.51
30:BK:19:GLY:HA2	30:BK:50:THR:CG2	2.37	0.51
31:BL:50:LEU:HD12	31:BL:50:LEU:N	2.26	0.51
31:BL:98:ARG:HG2	31:BL:119:TRP:NE1	2.12	0.51
31:BL:114:VAL:HB	31:BL:133:LEU:HD23	1.90	0.51
32:BM:52:LYS:HG3	32:BM:53:TYR:CD1	2.45	0.51
32:BM:64:ASN:CG	32:BM:65:LYS:H	2.14	0.51
33:BN:111:LEU:CB	33:BN:150:THR:HB	2.40	0.51
33:BN:117:GLN:HG3	33:BN:145:ILE:CG2	2.40	0.51
35:BP:89:PRO:O	35:BP:93:VAL:HG23	2.10	0.51
36:BQ:95:HIS:CG	36:BQ:96:ILE:N	2.79	0.51
37:BR:23:MET:HG2	37:BR:34:LEU:CD2	2.40	0.51
37:BR:83:LYS:NZ	37:BR:83:LYS:HA	2.25	0.51
37:BR:86:ARG:HG2	37:BR:87:ARG:N	2.25	0.51
39:BT:66:ILE:HG21	39:BT:120:LYS:HD3	1.92	0.51
39:BT:80:ILE:HG12	39:BT:81:LEU:N	2.22	0.51
42:B0:17:PHE:CD2	42:B0:32:TRP:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:41:VAL:HG22	42:B0:49:ASN:HB3	1.93	0.51
43:BW:28:ALA:HB2	43:BW:59:TRP:CD2	2.45	0.51
47:B9:48:ARG:H	47:B9:48:ARG:CD	2.20	0.51
1:AA:69:G:H5"	1:AA:172:A:C2'	2.36	0.51
1:AA:112:G:H21	1:AA:354:G:C5'	2.23	0.51
1:AA:478:A:O2'	1:AA:479:C:H5'	2.10	0.51
1:AA:562:C:C5	12:AL:33:LEU:CD2	2.93	0.51
1:AA:642:A:C4	8:AH:106:SER:HA	2.46	0.51
1:AA:746:A:O2'	1:AA:747:C:H5'	2.10	0.51
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.45	0.51
1:AA:1181:G:O2'	1:AA:1184:G:H5'	2.10	0.51
1:AA:1241:G:N7	7:AG:187:LYS:CD	2.62	0.51
1:AA:1314:C:H5	17:AS:48:GLY:O	1.94	0.51
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.11	0.51
1:AA:1404:C:C2'	1:AA:1519:A:C5'	2.84	0.51
4:AC:98:VAL:CA	4:AC:170:ALA:CB	2.88	0.51
5:AD:100:LYS:HB2	5:AD:192:ASP:O	2.11	0.51
5:AD:129:ILE:HG21	5:AD:144:PRO:HG3	1.91	0.51
5:AD:161:THR:O	5:AD:161:THR:HG23	2.09	0.51
9:AI:27:LEU:HD23	9:AI:27:LEU:N	2.22	0.51
9:AI:64:ILE:HG23	9:AI:64:ILE:O	2.10	0.51
10:AJ:74:GLU:O	14:AN:40:GLN:CB	2.58	0.51
11:AK:18:ILE:HD13	11:AK:27:VAL:HG21	1.88	0.51
15:AO:104:ASN:ND2	15:AO:107:ASP:HB2	2.26	0.51
16:AQ:128:ARG:HG3	16:AQ:129:PRO:HD2	1.93	0.51
18:B3:28:G:H5"	18:B3:1343:C:H4'	1.91	0.51
18:B3:112:G:H1'	18:B3:114:A:C8	2.44	0.51
18:B3:902:G:OP2	41:BV:21:ILE:HG12	2.11	0.51
18:B3:967:U:O2'	28:BI:34:TYR:CD2	2.47	0.51
18:B3:969:G:H4'	28:BI:40:LYS:CA	2.39	0.51
18:B3:1072:G:O2'	18:B3:1073:A:P	2.69	0.51
18:B3:1900:A:H5'	21:BB:238:ALA:HB1	1.91	0.51
18:B3:2037:C:C4	18:B3:2762:C:OP1	2.64	0.51
18:B3:2312:G:O5'	28:BI:22:TYR:CE1	2.38	0.51
18:B3:2671:U:C6	22:BC:179:GLU:OE1	2.62	0.51
18:B3:2713:G:O2'	37:BR:45:ARG:NH2	2.24	0.51
18:B3:2820:A:O5'	22:BC:101:LEU:N	2.29	0.51
18:B3:2820:A:H5'	22:BC:90:GLY:C	2.30	0.51
19:B4:50:G:O4'	24:BE:93:THR:O	1.92	0.51
21:BB:50:ASP:HB2	21:BB:53:ARG:HG3	1.90	0.51
21:BB:72:GLU:O	21:BB:74:ILE:HD12	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:102:PRO:HG3	21:BB:162:ARG:HA	1.92	0.51
22:BC:283:ARG:CG	22:BC:322:MET:HE3	2.35	0.51
23:BD:235:LEU:HD12	23:BD:236:GLN:CA	2.40	0.51
24:BE:23:ARG:NH2	24:BE:26:GLY:HA2	2.22	0.51
24:BE:24:ARG:HH12	24:BE:25:GLU:HB2	1.75	0.51
24:BE:64:ILE:O	24:BE:65:ILE:HG13	2.10	0.51
24:BE:120:LYS:HD2	24:BE:120:LYS:C	2.29	0.51
25:BF:109:ARG:HG3	25:BF:112:SER:HB2	1.91	0.51
25:BF:190:VAL:CG1	25:BF:191:GLY:H	2.21	0.51
27:BH:9:GLN:N	27:BH:54:LYS:HG2	2.26	0.51
27:BH:43:VAL:HA	27:BH:57:VAL:HB	1.93	0.51
27:BH:44:THR:CG2	27:BH:55:VAL:HG12	2.36	0.51
28:BI:165:ILE:HD13	28:BI:166:ILE:O	2.10	0.51
29:BJ:36:LEU:HD12	29:BJ:36:LEU:C	2.31	0.51
29:BJ:166:TYR:HD1	29:BJ:167:ASP:OD2	1.92	0.51
31:BL:34:VAL:O	31:BL:35:ILE:HB	2.10	0.51
31:BL:138:HIS:HB3	31:BL:141:ILE:HG22	1.93	0.51
31:BL:186:ARG:HG3	31:BL:187:ARG:NH1	2.25	0.51
33:BN:13:SER:CB	33:BN:149:VAL:HG11	2.33	0.51
33:BN:32:ALA:O	33:BN:33:GLN:HB2	2.10	0.51
34:BO:57:ILE:O	34:BO:57:ILE:HG22	2.09	0.51
34:BO:87:VAL:O	34:BO:106:PHE:HB2	2.09	0.51
35:BP:3:LEU:HD22	35:BP:32:ALA:HA	1.91	0.51
39:BT:114:ARG:HG3	39:BT:116:ASN:CB	2.39	0.51
40:BU:35:LEU:HA	40:BU:106:ILE:HG12	1.92	0.51
41:BV:34:ALA:CB	41:BV:43:ASN:HB2	2.40	0.51
41:BV:132:LEU:O	41:BV:132:LEU:HG	2.07	0.51
43:BW:11:TYR:CD2	43:BW:35:ILE:HA	2.45	0.51
45:BY:15:HIS:N	45:BY:27:HIS:HA	2.25	0.51
1:AA:121:C:C5	1:AA:235:C:N3	2.78	0.51
1:AA:204:U:H4'	1:AA:216:G:O5'	2.09	0.51
1:AA:233:C:O2	16:AQ:135:ARG:NH1	2.43	0.51
1:AA:498:U:O4	5:AD:20:GLU:OE1	2.27	0.51
1:AA:920:U:O2'	1:AA:1081:G:O5'	2.27	0.51
1:AA:1302:U:P	13:AM:54:LEU:HG	2.51	0.51
1:AA:1315:U:O4	17:AS:49:MET:HE3	2.10	0.51
1:AA:1330:U:N1	13:AM:93:THR:O	2.41	0.51
1:AA:1497:G:C6	1:AA:1519:A:C2	2.94	0.51
1:AA:1505:G:C4'	1:AA:1506:U:O2	2.49	0.51
2:AT:3:ALA:HA	2:AT:46:ILE:O	2.10	0.51
2:AT:693:LEU:HB3	2:AT:700:ARG:CD	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:806:SER:HB2	2:AT:813:SER:HB2	1.91	0.51
5:AD:60:LEU:HD23	5:AD:60:LEU:O	2.10	0.51
5:AD:99:LEU:HB3	5:AD:106:GLU:N	2.18	0.51
5:AD:153:GLU:HG3	5:AD:153:GLU:O	2.10	0.51
7:AG:139:THR:CG2	7:AG:174:LEU:HD21	2.28	0.51
10:AJ:72:ASN:HA	14:AN:28:GLY:O	1.73	0.51
11:AK:40:ARG:HG3	11:AK:41:VAL:N	2.26	0.51
12:AL:102:VAL:HG23	12:AL:133:LEU:HG	1.93	0.51
13:AM:16:ARG:HG2	13:AM:22:VAL:CB	2.33	0.51
15:AO:114:LEU:CD1	15:AO:117:ILE:HD11	2.29	0.51
17:AS:86:VAL:HG23	17:AS:88:GLU:HG2	1.93	0.51
18:B3:215:A:C5'	41:BV:58:ARG:HE	2.16	0.51
18:B3:265:U:O5'	31:BL:55:LYS:NZ	2.16	0.51
18:B3:375:G:C2	18:B3:411:A:OP1	2.61	0.51
18:B3:520:A:C5'	18:B3:1322:G:P	2.98	0.51
18:B3:581:G:O2'	18:B3:582:C:H5'	2.11	0.51
18:B3:764:C:N1	23:BD:86:GLN:CG	2.73	0.51
18:B3:842:C:O2	18:B3:1693:A:H2'	2.11	0.51
18:B3:1133:A:H1'	18:B3:2520:G:C4	2.46	0.51
18:B3:1167:G:C2'	30:BK:111:GLU:CA	2.86	0.51
18:B3:1349:G:O3'	23:BD:40:SER:C	2.48	0.51
18:B3:1675:C:O2	39:BT:113:VAL:HG21	2.10	0.51
18:B3:1810:C:C4	18:B3:2753:G:N3	2.78	0.51
18:B3:2215:A:C1'	20:BA:106:LYS:HA	2.40	0.51
18:B3:2312:G:H5"	28:BI:22:TYR:CD1	2.33	0.51
18:B3:2319:C:P	46:BZ:1:VAL:CG2	2.90	0.51
18:B3:2334:C:C1'	29:BJ:113:ILE:C	2.79	0.51
18:B3:2368:A:C2	24:BE:150:LEU:HD22	2.34	0.51
18:B3:2414:A:H1'	24:BE:145:PHE:CE2	2.45	0.51
18:B3:2415:A:H2	24:BE:35:ARG:HE	0.69	0.51
18:B3:2596:A:HO2'	37:BR:74:MET:HE3	1.69	0.51
20:BA:41:TYR:CE1	20:BA:163:LEU:CD2	2.94	0.51
20:BA:90:LEU:HD23	20:BA:90:LEU:C	2.29	0.51
21:BB:113:SER:N	21:BB:164:VAL:HG22	2.24	0.51
21:BB:180:LYS:O	21:BB:181:ALA:HB3	2.11	0.51
21:BB:215:HIS:CG	21:BB:216:GLN:H	2.29	0.51
22:BC:40:VAL:HG21	22:BC:207:VAL:CG1	2.39	0.51
22:BC:125:LYS:NZ	22:BC:127:LYS:HB2	2.22	0.51
22:BC:305:THR:OG1	22:BC:316:ILE:HB	2.11	0.51
22:BC:359:ASP:HA	38:BS:14:TYR:HB2	1.92	0.51
23:BD:54:LYS:HG3	23:BD:57:HIS:CB	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:22:ARG:HA	24:BE:22:ARG:NE	2.02	0.51
24:BE:50:ARG:CZ	24:BE:52:VAL:HG21	2.40	0.51
24:BE:75:LEU:HG	24:BE:76:ALA:N	2.26	0.51
24:BE:76:ALA:HB3	24:BE:109:THR:HG1	1.74	0.51
25:BF:82:LEU:CB	25:BF:115:PHE:CZ	2.93	0.51
26:BG:151:LEU:CD1	26:BG:185:LEU:HD22	2.40	0.51
28:BI:47:PRO:O	28:BI:48:LEU:HB3	2.10	0.51
29:BJ:17:VAL:HG23	29:BJ:68:VAL:O	2.11	0.51
30:BK:104:ILE:HD11	30:BK:108:GLU:CD	2.30	0.51
32:BM:48:ARG:HD2	32:BM:48:ARG:O	2.09	0.51
34:BO:111:ARG:HD2	34:BO:111:ARG:C	2.30	0.51
36:BQ:75:ILE:HA	36:BQ:91:LEU:HD23	1.92	0.51
41:BV:19:GLY:O	41:BV:20:ARG:HB2	2.10	0.51
42:B0:110:ALA:O	42:B0:111:ARG:HB3	2.09	0.51
47:B9:22:ARG:NE	47:B9:24:GLN:H	2.04	0.51
1:AA:345:C:O2'	37:BR:135:VAL:N	2.44	0.51
1:AA:364:A:OP2	12:AL:77:ILE:HG13	2.10	0.51
1:AA:555:C:P	12:AL:38:PHE:CE2	3.03	0.51
1:AA:1220:G:C5'	17:AS:59:LYS:HB2	2.32	0.51
1:AA:1240:U:N3	7:AG:189:ILE:HD12	1.64	0.51
1:AA:1497:G:C4	1:AA:1519:A:C6	2.92	0.51
2:AT:433:ARG:HB3	2:AT:457:VAL:HG13	1.92	0.51
4:AC:116:ARG:HA	4:AC:119:TYR:CD2	2.37	0.51
4:AC:133:CYS:N	4:AC:156:LEU:HD11	2.26	0.51
11:AK:111:ILE:CD1	11:AK:114:ILE:HD11	2.38	0.51
12:AL:94:ASN:HD22	12:AL:94:ASN:N	2.09	0.51
12:AL:142:LYS:HG3	12:AL:143:PRO:CD	2.41	0.51
18:B3:522:U:OP2	42:B0:26:HIS:CE1	2.63	0.51
18:B3:619:U:H5"	42:B0:41:VAL:HB	1.93	0.51
18:B3:834:G:H3'	18:B3:835:U:H4'	1.92	0.51
18:B3:952:G:C5'	36:BQ:14:MET:CG	2.87	0.51
18:B3:1308:A:C2'	23:BD:204:PRO:CB	2.83	0.51
18:B3:1652:C:C5'	21:BB:174:VAL:HG13	2.31	0.51
18:B3:1707:G:C5'	18:B3:2735:U:OP1	2.42	0.51
18:B3:1742:A:O2'	18:B3:2722:G:O3'	2.28	0.51
18:B3:1846:U:O3'	21:BB:180:LYS:CB	2.52	0.51
18:B3:1994:A:P	37:BR:71:LYS:HD2	2.50	0.51
18:B3:2047:C:HO2'	18:B3:2841:A:C1'	2.24	0.51
18:B3:2336:G:H4'	29:BJ:101:PHE:CG	2.45	0.51
18:B3:2385:G:H22	36:BQ:69:LYS:HZ3	1.58	0.51
18:B3:2502:C:H2'	18:B3:2503:A:H5'	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2552:C:HO2'	18:B3:2553:A:C2'	2.22	0.51
19:B4:64:C:C2'	19:B4:65:A:H5'	2.41	0.51
21:BB:171:GLY:C	47:B9:67:ALA:HB2	2.30	0.51
21:BB:188:TYR:CD1	21:BB:195:TRP:HB2	2.45	0.51
22:BC:81:PRO:HG3	22:BC:204:VAL:HG13	1.92	0.51
23:BD:155:LEU:HD13	23:BD:155:LEU:C	2.31	0.51
26:BG:121:LYS:HD2	26:BG:121:LYS:O	2.10	0.51
26:BG:141:LEU:HD13	26:BG:147:ALA:HB2	1.88	0.51
30:BK:93:LYS:HD2	30:BK:96:LYS:CB	2.34	0.51
31:BL:12:LYS:O	31:BL:13:LYS:HB3	2.11	0.51
31:BL:17:VAL:CA	31:BL:20:PHE:CE2	2.94	0.51
31:BL:18:LEU:CD1	31:BL:21:LEU:HD21	2.26	0.51
31:BL:72:ARG:HD2	31:BL:88:VAL:O	2.10	0.51
31:BL:187:ARG:HD2	31:BL:188:LYS:N	2.25	0.51
32:BM:53:TYR:C	32:BM:58:ARG:HG3	2.31	0.51
33:BN:59:PHE:CE1	33:BN:79:LYS:CG	2.94	0.51
33:BN:98:ALA:O	33:BN:99:ALA:HB3	2.09	0.51
37:BR:15:LEU:HB3	37:BR:52:ALA:O	2.10	0.51
40:BU:39:LEU:HD12	40:BU:42:GLN:HE22	1.74	0.51
42:B0:64:LYS:HG2	42:B0:65:PHE:HD1	1.75	0.51
44:BX:4:VAL:HG23	44:BX:5:LYS:H	1.76	0.51
44:BX:56:THR:HA	44:BX:59:ASN:O	2.10	0.51
45:BY:25:SER:O	45:BY:34:SER:HB3	2.10	0.51
47:B9:28:LEU:HD13	47:B9:28:LEU:H	1.75	0.51
1:AA:102:G:H1'	1:AA:151:A:C2'	2.35	0.51
1:AA:678:U:H4'	11:AK:127:LYS:HA	1.89	0.51
1:AA:860:A:C5'	3:AB:133:LYS:HZ1	2.23	0.51
1:AA:924:C:N1	1:AA:1398:A:N3	2.57	0.51
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.45	0.51
1:AA:1179:A:H2'	1:AA:1180:A:O4'	2.10	0.51
1:AA:1190:G:O2'	1:AA:1191:A:P	2.68	0.51
1:AA:1312:G:N7	17:AS:47:ARG:N	2.59	0.51
2:AT:576:LEU:HD13	2:AT:587:TYR:CE1	2.45	0.51
3:AB:67:PRO:C	3:AB:183:LEU:HD23	2.31	0.51
3:AB:72:VAL:O	3:AB:72:VAL:HG13	2.08	0.51
4:AC:101:ALA:HB1	4:AC:183:ILE:CG2	2.40	0.51
5:AD:31:ALA:CB	5:AD:43:TYR:CE1	2.94	0.51
10:AJ:64:LYS:NZ	10:AJ:83:GLU:HG3	2.25	0.51
11:AK:117:VAL:O	11:AK:117:VAL:HG22	2.10	0.51
12:AL:55:GLU:CD	12:AL:57:LEU:HD21	2.31	0.51
15:AO:87:LEU:HD13	15:AO:87:LEU:C	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:76:VAL:HG12	17:AS:77:ARG:H	1.75	0.51
18:B3:145:A:C1'	31:BL:111:ASN:OD1	2.58	0.51
18:B3:195:C:OP1	31:BL:178:LYS:C	2.49	0.51
18:B3:450:C:P	23:BD:195:ASN:OD1	2.51	0.51
18:B3:538:C:H2'	42:B0:21:HIS:CA	2.37	0.51
18:B3:676:C:O2	23:BD:231:SER:C	2.48	0.51
18:B3:1042:U:O2'	18:B3:1043:C:H5'	2.10	0.51
18:B3:1054:G:C5	28:BI:110:ARG:HD2	2.45	0.51
18:B3:1134:G:C1'	18:B3:1229:C:P	2.98	0.51
18:B3:1262:C:O3'	25:BF:205:LYS:HD3	2.09	0.51
18:B3:1508:C:O4'	39:BT:77:ASP:HB2	2.10	0.51
18:B3:1687:C:O2'	45:BY:8:GLY:HA2	1.96	0.51
18:B3:1861:C:OP1	21:BB:230:SER:HA	2.10	0.51
18:B3:1898:G:N3	21:BB:223:THR:CG2	2.73	0.51
18:B3:1993:C:O4'	37:BR:71:LYS:C	2.48	0.51
18:B3:2396:C:H1'	41:BV:46:LYS:HD3	1.91	0.51
18:B3:2403:C:H2'	36:BQ:69:LYS:CE	2.40	0.51
18:B3:2560:C:O2'	18:B3:2777:G:H1'	2.10	0.51
18:B3:2597:U:H2'	18:B3:2598:U:H5'	1.91	0.51
18:B3:2828:G:OP2	22:BC:129:PHE:HD1	1.94	0.51
19:B4:44:A:H4'	29:BJ:140:ARG:HD2	1.90	0.51
20:BA:67:ILE:HG23	20:BA:67:ILE:O	2.09	0.51
21:BB:134:ILE:HG13	21:BB:148:ARG:CB	2.40	0.51
22:BC:261:TRP:HB2	22:BC:263:VAL:H	1.76	0.51
22:BC:330:ASN:HD22	22:BC:330:ASN:N	2.06	0.51
23:BD:84:SER:C	23:BD:97:ARG:HD3	2.31	0.51
24:BE:84:PRO:HB3	24:BE:88:ILE:N	2.25	0.51
27:BH:43:VAL:HG11	32:BM:126:LEU:HA	1.84	0.51
27:BH:76:ASP:N	27:BH:78:MET:HE3	2.18	0.51
27:BH:112:ILE:CD1	27:BH:128:VAL:HG23	2.41	0.51
28:BI:53:VAL:O	28:BI:53:VAL:HG23	2.10	0.51
28:BI:58:GLU:HB3	28:BI:129:VAL:O	2.10	0.51
28:BI:147:VAL:O	28:BI:150:GLU:HB2	2.09	0.51
29:BJ:156:GLU:HG3	29:BJ:157:ASP:N	2.25	0.51
31:BL:34:VAL:N	31:BL:64:ARG:HD3	2.26	0.51
31:BL:114:VAL:HG22	31:BL:115:LEU:C	2.31	0.51
31:BL:186:ARG:HD3	31:BL:187:ARG:CB	2.40	0.51
35:BP:41:ARG:HH12	35:BP:43:LEU:HD21	1.75	0.51
36:BQ:25:VAL:CG2	36:BQ:30:TYR:CE2	2.93	0.51
36:BQ:79:MET:HE2	36:BQ:81:GLY:O	2.10	0.51
37:BR:49:LEU:C	37:BR:49:LEU:HD13	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:109:VAL:HG23	39:BT:123:VAL:HG22	1.93	0.51
40:BU:16:ARG:C	40:BU:16:ARG:HD2	2.31	0.51
40:BU:57:LEU:HA	40:BU:67:GLU:CB	2.39	0.51
41:BV:81:ILE:HG13	41:BV:95:LYS:HD2	1.89	0.51
42:B0:117:ILE:HD13	42:B0:117:ILE:H	1.75	0.51
43:BW:13:ILE:HD11	43:BW:67:GLU:O	2.10	0.51
43:BW:52:PRO:HB3	43:BW:55:ASN:ND2	2.24	0.51
47:B9:48:ARG:CB	47:B9:54:TRP:CE3	2.94	0.51
1:AA:190(C):C:N4	16:AQ:112:PRO:CD	2.67	0.51
1:AA:190(E):U:OP1	16:AQ:130:ILE:CG1	2.58	0.51
1:AA:337:C:H2'	1:AA:338:A:C8	2.45	0.51
1:AA:401:C:O2'	1:AA:622:A:H8	1.93	0.51
1:AA:436:C:C2	1:AA:496:A:O2'	2.62	0.51
1:AA:1366:C:C2	1:AA:1367:C:C5	2.99	0.51
3:AB:159:ILE:HD13	3:AB:172:ILE:HG21	1.91	0.51
4:AC:104:MET:SD	4:AC:121:VAL:HG21	2.50	0.51
4:AC:172:ARG:HB3	4:AC:183:ILE:CG2	2.40	0.51
8:AH:103:LEU:HD22	8:AH:124:ILE:CG2	2.34	0.51
9:AI:97:ASP:CA	9:AI:104:LEU:H	2.24	0.51
10:AJ:27:THR:HB	10:AJ:88:LYS:HE2	1.93	0.51
11:AK:131:ARG:O	11:AK:132:ARG:HB3	2.10	0.51
18:B3:302:A:P	40:BU:28:ARG:NH2	2.64	0.51
18:B3:540:A:C4'	42:B0:17:PHE:HA	2.40	0.51
18:B3:750:A:C1'	23:BD:116:GLU:CB	2.88	0.51
18:B3:1056:U:H6	28:BI:109:ASP:HB3	1.75	0.51
18:B3:1103:C:O2'	32:BM:86:MET:O	2.29	0.51
18:B3:1309:U:C3'	23:BD:203:GLY:CA	2.86	0.51
18:B3:1501:A:P	35:BP:37:ARG:CD	2.99	0.51
18:B3:2109:U:C5	41:BV:42:ILE:HD13	2.44	0.51
18:B3:2242:U:O2'	18:B3:2243:C:P	2.69	0.51
18:B3:2245:C:C4	18:B3:2246:U:C5	2.90	0.51
18:B3:2578:G:N2	18:B3:2800:A:C2'	2.74	0.51
18:B3:2762:C:H1'	37:BR:83:LYS:CD	2.32	0.51
19:B4:6:C:P	24:BE:28:THR:CA	2.98	0.51
19:B4:55:U:O2'	19:B4:56:A:OP2	2.26	0.51
19:B4:87:U:H6	25:BF:217:ARG:NE	2.07	0.51
21:BB:162:ARG:HD2	21:BB:163:GLY:HA2	1.93	0.51
22:BC:113:VAL:CG1	22:BC:117:PHE:CG	2.94	0.51
22:BC:159:VAL:HG12	22:BC:180:ILE:HD12	1.92	0.51
22:BC:316:ILE:HD13	22:BC:320:PHE:CE1	2.45	0.51
23:BD:72:ARG:O	23:BD:73:ILE:HD13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:113:LEU:CD1	24:BE:113:LEU:H	2.24	0.51
24:BE:113:LEU:HD13	24:BE:113:LEU:H	1.75	0.51
24:BE:150:LEU:HD13	24:BE:150:LEU:C	2.30	0.51
25:BF:98:PRO:O	25:BF:99:ARG:HB3	2.11	0.51
27:BH:78:MET:HE3	27:BH:79:ILE:HG13	1.92	0.51
28:BI:29:SER:HB3	28:BI:31:ILE:CG2	2.29	0.51
28:BI:52:LEU:HD12	28:BI:136:PHE:O	2.10	0.51
29:BJ:71:ARG:HH11	29:BJ:71:ARG:N	2.07	0.51
29:BJ:150:SER:O	29:BJ:152:LYS:HD3	2.11	0.51
30:BK:93:LYS:HZ2	30:BK:96:LYS:HD3	1.75	0.51
33:BN:59:PHE:HZ	33:BN:81:ARG:CZ	2.24	0.51
33:BN:111:LEU:HB3	33:BN:150:THR:CB	2.41	0.51
33:BN:117:GLN:O	33:BN:118:VAL:HB	2.10	0.51
34:BO:109:GLY:O	34:BO:113:LYS:HG2	2.11	0.51
35:BP:69:LYS:O	35:BP:70:ARG:HB3	2.10	0.51
35:BP:80:ARG:HG3	35:BP:87:ARG:CZ	2.41	0.51
36:BQ:45:ASN:O	36:BQ:48:ILE:HG23	2.11	0.51
36:BQ:74:VAL:O	36:BQ:89:LEU:HD23	2.11	0.51
39:BT:87:MET:HA	39:BT:119:LYS:HG2	1.87	0.51
40:BU:14:LYS:HG2	40:BU:17:LYS:HD3	1.92	0.51
40:BU:31:LEU:CG	40:BU:78:PHE:HB3	2.40	0.51
40:BU:95:VAL:HG23	40:BU:95:VAL:O	2.10	0.51
41:BV:18:LYS:HE3	41:BV:19:GLY:O	2.10	0.51
43:BW:32:VAL:HG13	43:BW:33:LYS:N	2.25	0.51
46:BZ:67:VAL:H	46:BZ:84:LEU:HB3	1.75	0.51
1:AA:65:U:OP1	1:AA:96:G:C3'	2.34	0.51
1:AA:65:U:OP1	1:AA:97:G:P	2.69	0.51
1:AA:552:U:OP1	12:AL:108:GLY:N	2.44	0.51
1:AA:560:U:O2'	1:AA:561:U:OP2	2.29	0.51
1:AA:824:C:H2'	1:AA:825:G:H8	1.76	0.51
1:AA:1001:A:H2'	1:AA:1002:G:H8	1.76	0.51
1:AA:1296:C:H4'	13:AM:54:LEU:HD12	1.93	0.51
1:AA:1315:U:O4	17:AS:49:MET:CE	2.59	0.51
1:AA:1494:G:O2'	1:AA:1495:U:H5'	2.10	0.51
2:AT:107:GLY:O	2:AT:109:VAL:N	2.44	0.51
3:AB:121:ILE:HD13	3:AB:121:ILE:C	2.30	0.51
3:AB:138:VAL:HG22	3:AB:138:VAL:O	2.09	0.51
4:AC:20:LEU:HD11	4:AC:83:ILE:CD1	2.41	0.51
4:AC:33:TYR:CE1	4:AC:35:GLY:CA	2.94	0.51
5:AD:60:LEU:HD23	5:AD:64:GLU:CG	2.41	0.51
6:AE:96:ARG:HE	6:AE:116:THR:HG22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:100:SER:N	9:AI:105:LYS:N	2.58	0.51
9:AI:111:TYR:HB3	9:AI:114:THR:HB	1.93	0.51
11:AK:32:LEU:HD23	11:AK:32:LEU:N	2.25	0.51
11:AK:42:THR:HG21	11:AK:52:ASP:C	2.31	0.51
12:AL:142:LYS:N	12:AL:143:PRO:HD2	2.26	0.51
18:B3:255:A:H2'	18:B3:256:C:H6	1.73	0.51
18:B3:542:A:OP1	42:B0:14:THR:HA	2.11	0.51
18:B3:618:G:C1'	42:B0:41:VAL:HG22	2.40	0.51
18:B3:1118:A:C8	18:B3:1118:A:C3'	2.92	0.51
18:B3:1134:G:OP2	18:B3:1229:C:C5	2.53	0.51
18:B3:1226:G:OP1	18:B3:1246:A:C6	2.64	0.51
18:B3:1800:G:H5"	35:BP:87:ARG:HB3	1.92	0.51
18:B3:1805:G:C4	18:B3:2883:A:N1	2.78	0.51
18:B3:2093:G:O2'	22:BC:253:ALA:HA	1.97	0.51
18:B3:2501:G:N2	28:BI:157:TYR:CE1	2.78	0.51
18:B3:2766:A:O2'	18:B3:2767:C:H5'	2.11	0.51
19:B4:97:U:O2	25:BF:220:LYS:HD3	1.57	0.51
19:B4:103:A:O2'	19:B4:104:A:H5'	2.10	0.51
20:BA:42:ASP:OD2	20:BA:45:ARG:HG2	2.10	0.51
20:BA:70:ASP:O	20:BA:74:VAL:HG23	2.11	0.51
21:BB:218:ILE:HD13	21:BB:219:GLY:O	2.11	0.51
22:BC:344:ASN:ND2	22:BC:345:THR:H	2.09	0.51
23:BD:40:SER:O	23:BD:110:VAL:HG11	2.11	0.51
24:BE:18:THR:CG2	24:BE:20:PHE:CD2	2.94	0.51
24:BE:164:LYS:HD2	24:BE:198:TYR:OH	2.11	0.51
24:BE:165:GLY:O	24:BE:166:ALA:HB3	2.11	0.51
25:BF:97:LYS:HD3	25:BF:97:LYS:C	2.31	0.51
26:BG:164:PHE:HB2	26:BG:168:LEU:HD12	1.93	0.51
27:BH:13:PRO:HD2	27:BH:16:VAL:HG21	1.91	0.51
27:BH:170:LYS:H	27:BH:170:LYS:CD	2.12	0.51
30:BK:32:ILE:HG13	30:BK:33:GLY:N	2.24	0.51
31:BL:140:ALA:HA	31:BL:143:ARG:HG3	1.92	0.51
31:BL:164:THR:O	31:BL:169:LYS:HB2	2.10	0.51
31:BL:183:LYS:HG3	31:BL:183:LYS:O	2.10	0.51
31:BL:191:LYS:O	31:BL:192:ARG:HB2	2.10	0.51
32:BM:128:LEU:N	32:BM:128:LEU:HD22	2.25	0.51
33:BN:25:PHE:CE2	33:BN:118:VAL:CG2	2.93	0.51
35:BP:95:ILE:HD13	35:BP:95:ILE:N	2.24	0.51
36:BQ:55:LYS:HD3	36:BQ:55:LYS:N	2.26	0.51
36:BQ:77:ASN:OD1	36:BQ:87:LYS:HG2	2.10	0.51
39:BT:71:ALA:CB	39:BT:81:LEU:HD21	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:104:VAL:CG2	39:BT:129:TYR:CG	2.94	0.51
40:BU:63:LYS:HZ1	40:BU:97:ILE:HD11	1.74	0.51
40:BU:72:SER:HB3	40:BU:81:GLN:N	2.13	0.51
42:B0:85:LEU:HG	42:B0:117:ILE:HG21	1.92	0.51
47:B9:53:ILE:HD13	47:B9:54:TRP:H	1.73	0.51
1:AA:21:G:O3'	1:AA:885:G:P	2.67	0.51
1:AA:55:A:H2	2:AT:68:ILE:CA	2.24	0.51
1:AA:318:G:N3	1:AA:1433:A:N1	2.59	0.51
1:AA:373:A:O2'	1:AA:374:A:H5'	2.10	0.51
1:AA:560:U:C2	1:AA:563:A:H5'	2.44	0.51
1:AA:605:U:O2'	1:AA:606:G:H5'	2.11	0.51
1:AA:676:A:C3'	11:AK:120:VAL:HA	2.41	0.51
1:AA:919:A:C1'	1:AA:1079:G:N2	2.68	0.51
1:AA:1020:U:H2'	1:AA:1021:G:H8	1.76	0.51
1:AA:1111:A:N6	4:AC:161:GLN:NE2	2.58	0.51
1:AA:1221:G:H1'	17:AS:102:PHE:HB3	1.92	0.51
2:AT:414:GLN:HB3	2:AT:418:TYR:CD2	2.46	0.51
3:AB:60:ALA:O	3:AB:63:ILE:HB	2.10	0.51
4:AC:134:GLU:HB3	4:AC:156:LEU:CD2	2.41	0.51
9:AI:98:GLU:O	9:AI:98:GLU:HG2	2.11	0.51
9:AI:98:GLU:CA	9:AI:105:LYS:CA	2.89	0.51
10:AJ:41:ILE:HD12	10:AJ:41:ILE:N	2.26	0.51
11:AK:42:THR:HG21	11:AK:52:ASP:CA	2.41	0.51
12:AL:74:VAL:HG23	12:AL:83:VAL:CG2	2.41	0.51
12:AL:102:VAL:CG2	12:AL:133:LEU:HD11	2.41	0.51
14:AN:27:THR:HG22	14:AN:38:CYS:SG	2.51	0.51
15:AO:114:LEU:HD12	15:AO:117:ILE:CD1	2.30	0.51
18:B3:53:C:O4'	18:B3:121:U:O2'	2.28	0.51
18:B3:67:A:H4'	44:BX:55:LEU:HD22	1.86	0.51
18:B3:99:A:H1'	40:BU:75:ARG:HH12	1.68	0.51
18:B3:264:G:H1	26:BG:137:HIS:HD2	1.55	0.51
18:B3:471:G:H5'	45:BY:15:HIS:CD2	2.46	0.51
18:B3:604:G:H4'	18:B3:605:C:O5'	2.11	0.51
18:B3:709:G:H1'	34:BO:139:ILE:HD11	1.92	0.51
18:B3:777:U:C2	45:BY:12:ASN:ND2	2.79	0.51
18:B3:1008:C:H2'	18:B3:1009:U:C6	2.46	0.51
18:B3:1206:C:H3'	18:B3:1207:A:C8	2.45	0.51
18:B3:1308:A:C6	23:BD:201:ARG:NH2	2.79	0.51
18:B3:2165:G:H2'	20:BA:33:GLU:HG3	1.90	0.51
18:B3:2170:G:OP2	20:BA:26:ARG:CB	2.58	0.51
18:B3:2365:G:O2'	36:BQ:49:GLN:NE2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2433:A:O3'	46:BZ:35:PHE:HB3	2.11	0.51
18:B3:2457:U:H1'	46:BZ:81:GLN:CG	2.37	0.51
18:B3:2459:G:C4'	46:BZ:66:LYS:HE3	2.33	0.51
18:B3:2526:C:C1'	18:B3:2604:A:O3'	2.59	0.51
18:B3:2561:C:H5'	18:B3:2777:G:HO2'	1.73	0.51
18:B3:2564:G:OP2	18:B3:2565:C:H5"	2.11	0.51
20:BA:48:ARG:HD3	20:BA:161:LYS:HA	1.91	0.51
22:BC:104:VAL:HG23	22:BC:105:TRP:N	2.24	0.51
22:BC:118:TYR:HD2	22:BC:133:SER:H	1.56	0.51
22:BC:163:THR:N	22:BC:177:LEU:HG	2.26	0.51
22:BC:304:ILE:HG12	22:BC:358:ILE:CG1	2.16	0.51
23:BD:133:LEU:O	23:BD:133:LEU:HG	2.11	0.51
23:BD:148:PRO:CD	23:BD:149:LEU:H	2.23	0.51
24:BE:143:LYS:O	24:BE:144:VAL:HG23	2.11	0.51
26:BG:150:VAL:HB	26:BG:198:ALA:HB3	1.90	0.51
27:BH:23:ARG:NH1	27:BH:37:ASN:HD21	2.08	0.51
27:BH:162:GLN:HA	27:BH:179:ILE:O	2.10	0.51
28:BI:64:ALA:O	28:BI:68:ALA:HB3	2.11	0.51
29:BJ:137:VAL:HG12	29:BJ:144:LYS:O	2.11	0.51
29:BJ:140:ARG:HB3	29:BJ:142:ARG:NE	2.26	0.51
30:BK:116:MET:HE2	30:BK:119:LYS:HB3	1.93	0.51
33:BN:28:THR:HG23	33:BN:29:ARG:N	2.25	0.51
33:BN:90:VAL:HG13	33:BN:93:LEU:CD2	2.40	0.51
35:BP:81:LYS:H	35:BP:81:LYS:NZ	2.09	0.51
35:BP:119:TYR:CG	35:BP:120:HIS:N	2.78	0.51
36:BQ:32:LYS:HZ2	36:BQ:97:LYS:HE2	1.75	0.51
36:BQ:33:VAL:HG12	36:BQ:34:TYR:N	2.26	0.51
37:BR:9:THR:HG23	37:BR:11:PHE:N	2.10	0.51
37:BR:62:VAL:HG21	37:BR:69:LEU:C	2.31	0.51
40:BU:107:THR:O	40:BU:107:THR:HG23	2.11	0.51
42:B0:18:LYS:O	42:B0:32:TRP:HD1	1.92	0.51
42:B0:82:LEU:HD12	42:B0:82:LEU:C	2.32	0.51
42:B0:111:ARG:HE	42:B0:113:LYS:HD2	1.76	0.51
44:BX:41:LEU:HD22	44:BX:43:LYS:HG3	1.92	0.51
46:BZ:65:LYS:C	46:BZ:66:LYS:HE2	2.30	0.51
1:AA:105:G:N3	1:AA:379:C:O2'	2.39	0.51
1:AA:163:C:O2'	1:AA:164:U:H5'	2.10	0.51
1:AA:405:U:C4	5:AD:27:GLU:N	2.73	0.51
1:AA:676:A:H3'	11:AK:121:PRO:HD3	1.89	0.51
1:AA:989:C:OP2	1:AA:1015:A:N6	2.44	0.51
1:AA:1220:G:C2'	17:AS:96:ILE:HA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1283:G:O2'	1:AA:1284:C:H5'	2.11	0.51
1:AA:1309:G:H22	13:AM:96:LYS:CB	2.23	0.51
2:AT:464:LEU:HD13	2:AT:510:ARG:CG	2.41	0.51
6:AE:110:VAL:HG23	6:AE:136:ILE:HG22	1.93	0.51
9:AI:30:VAL:HA	9:AI:66:VAL:CG1	2.41	0.51
10:AJ:71:PRO:HD2	14:AN:42:PHE:CA	2.41	0.51
10:AJ:72:ASN:ND2	14:AN:28:GLY:H	2.01	0.51
12:AL:142:LYS:HD2	12:AL:143:PRO:HD3	1.92	0.51
13:AM:126:ARG:NH1	13:AM:131:LEU:HD12	2.26	0.51
13:AM:129:TRP:CZ3	17:AS:121:ILE:CB	2.94	0.51
16:AQ:110:VAL:HG23	16:AQ:115:ARG:HB3	1.92	0.51
18:B3:145:A:H1'	31:BL:111:ASN:OD1	2.11	0.51
18:B3:289:G:N1	18:B3:363:A:C2	2.77	0.51
18:B3:501:G:C3'	33:BN:15:SER:H	2.22	0.51
18:B3:538:C:O2'	42:B0:21:HIS:CA	2.47	0.51
18:B3:772:G:H21	45:BY:46:TYR:HE2	1.58	0.51
18:B3:925:C:C4'	41:BV:28:PRO:HG2	2.23	0.51
18:B3:1743:G:N2	37:BR:18:PRO:HG2	2.26	0.51
18:B3:2337:G:O2'	29:BJ:126:PHE:HB3	2.11	0.51
18:B3:2345:A:N3	29:BJ:23:GLY:CA	2.49	0.51
18:B3:2424:U:H4'	36:BQ:7:TYR:CD2	2.45	0.51
18:B3:2791:U:H1'	18:B3:2792:A:H5"	1.92	0.51
18:B3:2822:C:C4'	22:BC:133:SER:OG	2.59	0.51
18:B3:2828:G:O5'	22:BC:129:PHE:HD1	1.92	0.51
18:B3:2897:C:H5"	22:BC:312:HIS:CD2	2.45	0.51
20:BA:67:ILE:HD11	20:BA:73:ASP:CG	2.31	0.51
21:BB:4:ILE:HG12	21:BB:208:HIS:HA	1.93	0.51
22:BC:49:LYS:CG	22:BC:332:LYS:CA	2.89	0.51
22:BC:101:LEU:HD13	22:BC:145:ARG:HD3	1.93	0.51
22:BC:226:GLU:N	22:BC:269:ARG:HE	2.09	0.51
22:BC:330:ASN:HB2	22:BC:334:ILE:HG21	1.93	0.51
24:BE:85:ARG:HH22	24:BE:232:ASP:HB2	1.76	0.51
24:BE:133:GLU:CG	24:BE:134:ALA:H	2.23	0.51
24:BE:151:GLN:NE2	24:BE:159:VAL:HG22	2.26	0.51
24:BE:216:GLU:HG2	24:BE:217:GLU:N	2.26	0.51
26:BG:113:ALA:HB3	26:BG:122:GLN:HG3	1.93	0.51
26:BG:130:ALA:HB2	26:BG:202:VAL:HB	1.93	0.51
26:BG:182:LYS:HD3	26:BG:182:LYS:H	1.76	0.51
26:BG:210:LEU:HD13	26:BG:210:LEU:C	2.30	0.51
27:BH:34:LEU:HD11	27:BH:150:SER:N	2.26	0.51
27:BH:146:LEU:HG	27:BH:158:ALA:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:170:LYS:HD3	27:BH:170:LYS:N	2.10	0.51
29:BJ:17:VAL:HB	29:BJ:69:THR:CA	2.31	0.51
29:BJ:34:LYS:CD	29:BJ:35:VAL:H	2.24	0.51
29:BJ:71:ARG:NH2	29:BJ:72:GLY:HA2	2.25	0.51
29:BJ:107:GLU:HG2	29:BJ:108:HIS:N	2.25	0.51
29:BJ:155:LYS:HD2	29:BJ:155:LYS:N	2.25	0.51
30:BK:18:VAL:O	30:BK:21:GLU:HG2	2.11	0.51
31:BL:30:ARG:O	31:BL:31:GLN:HG2	2.11	0.51
32:BM:35:VAL:CG1	32:BM:110:PRO:HD2	2.41	0.51
32:BM:123:LEU:HD22	32:BM:125:VAL:H	1.76	0.51
33:BN:59:PHE:CZ	33:BN:81:ARG:CZ	2.94	0.51
34:BO:44:PHE:HE1	34:BO:139:ILE:CG1	2.24	0.51
35:BP:141:ILE:O	35:BP:142:ILE:HB	2.11	0.51
36:BQ:92:ARG:HG3	36:BQ:93:VAL:H	1.76	0.51
37:BR:15:LEU:HD12	37:BR:52:ALA:O	2.11	0.51
37:BR:54:LEU:HG	37:BR:85:TRP:CZ2	2.46	0.51
37:BR:109:MET:HE1	37:BR:128:ARG:O	2.11	0.51
38:BS:51:TRP:CZ3	38:BS:56:ARG:CD	2.94	0.51
39:BT:71:ALA:HB1	39:BT:81:LEU:HD21	1.93	0.51
39:BT:81:LEU:O	39:BT:82:VAL:HG13	2.11	0.51
39:BT:102:TYR:CD2	39:BT:104:VAL:CG2	2.94	0.51
1:AA:190(E):U:OP2	16:AQ:137:ASN:CB	2.57	0.50
1:AA:552:U:H5”	12:AL:107:PHE:N	2.14	0.50
1:AA:668:G:C1’	15:AO:104:ASN:CG	2.72	0.50
1:AA:791:G:H2’	1:AA:792:A:H5’	1.93	0.50
1:AA:1162:C:O2	9:AI:108:PHE:CE2	2.64	0.50
1:AA:1165:C:O2’	1:AA:1166:G:H5’	2.11	0.50
1:AA:1177:G:C4	9:AI:106:LYS:CG	2.73	0.50
1:AA:1350:A:H2	7:AG:103:ASN:C	2.13	0.50
3:AB:106:PHE:HB2	3:AB:134:GLU:HB3	1.93	0.50
3:AB:121:ILE:CD1	3:AB:173:TRP:HE1	2.24	0.50
4:AC:51:ALA:C	4:AC:90:VAL:HG23	2.31	0.50
4:AC:161:GLN:HE21	4:AC:162:PRO:HD2	1.75	0.50
6:AE:163:SER:HB2	6:AE:202:LYS:HE2	1.92	0.50
7:AG:201:ALA:O	7:AG:202:LYS:HB3	2.11	0.50
8:AH:8:ASP:OD2	8:AH:27:ARG:HD3	2.11	0.50
8:AH:52:ILE:HD13	8:AH:61:VAL:HG22	1.92	0.50
8:AH:92:LEU:HD12	8:AH:92:LEU:N	2.25	0.50
9:AI:98:GLU:C	9:AI:99:GLN:HG3	2.31	0.50
9:AI:101:LYS:C	9:AI:105:LYS:HG3	2.31	0.50
10:AJ:78:THR:O	14:AN:39:ARG:HD3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:17:ARG:O	11:AK:27:VAL:HG23	2.11	0.50
13:AM:78:HIS:HB3	13:AM:85:PHE:CE1	2.46	0.50
13:AM:88:ARG:NH2	13:AM:111:ASP:CB	2.75	0.50
17:AS:64:LYS:HD2	17:AS:65:LEU:CD1	2.33	0.50
17:AS:73:PRO:O	17:AS:74:ALA:HB3	2.11	0.50
18:B3:78:G:O3'	40:BU:27:ARG:NH2	2.45	0.50
18:B3:91:G:H1'	44:BX:40:SER:O	2.11	0.50
18:B3:111:C:C4'	18:B3:118:G:O6	2.57	0.50
18:B3:113:A:H4'	45:BY:41:ALA:HB1	1.93	0.50
18:B3:700:A:OP2	41:BV:115:GLY:C	2.49	0.50
18:B3:737:A:H2'	18:B3:738:G:O4'	2.10	0.50
18:B3:778:C:H5"	45:BY:9:LYS:CE	2.34	0.50
18:B3:1066:U:H2'	18:B3:1067:A:C8	2.45	0.50
18:B3:1235:G:N1	32:BM:69:PRO:HD2	2.24	0.50
18:B3:1306:U:OP1	23:BD:196:ARG:NH2	2.44	0.50
18:B3:2050:G:O5'	33:BN:83:PRO:HA	2.11	0.50
18:B3:2308:U:H2'	28:BI:116:ARG:HB2	1.91	0.50
18:B3:2546:U:O2'	22:BC:235:LYS:HE2	2.10	0.50
18:B3:2597:U:P	37:BR:74:MET:SD	3.09	0.50
19:B4:8:G:C6	24:BE:21:ARG:CD	2.94	0.50
20:BA:36:VAL:HG13	20:BA:204:LEU:CD1	2.32	0.50
20:BA:100:ILE:HG23	20:BA:101:LYS:N	2.26	0.50
21:BB:53:ARG:CZ	21:BB:54:GLY:HA2	2.40	0.50
21:BB:111:ILE:HD13	21:BB:134:ILE:HG22	1.92	0.50
21:BB:134:ILE:HD11	21:BB:148:ARG:HG3	1.93	0.50
22:BC:75:VAL:HG21	22:BC:326:CYS:SG	2.51	0.50
22:BC:105:TRP:CD1	22:BC:106:ALA:N	2.79	0.50
22:BC:228:VAL:CB	22:BC:232:TRP:HZ2	2.23	0.50
22:BC:302:LYS:HG3	22:BC:320:PHE:HZ	1.75	0.50
24:BE:110:LEU:CD2	24:BE:171:LEU:HB3	2.41	0.50
25:BF:122:THR:O	25:BF:123:LEU:HB3	2.11	0.50
27:BH:69:ARG:HB3	27:BH:69:ARG:NH1	2.26	0.50
27:BH:90:MET:HB2	27:BH:182:SER:H	1.77	0.50
27:BH:99:ILE:O	27:BH:99:ILE:HG23	2.10	0.50
27:BH:138:THR:HG22	27:BH:142:ASP:OD1	2.12	0.50
28:BI:27:PRO:CG	28:BI:124:GLY:H	2.24	0.50
28:BI:52:LEU:CB	28:BI:136:PHE:H	2.24	0.50
28:BI:112:GLN:HG3	28:BI:118:ALA:O	2.10	0.50
29:BJ:37:GLU:O	29:BJ:38:GLN:HB2	2.11	0.50
29:BJ:91:ARG:HG2	29:BJ:159:VAL:HG23	1.93	0.50
30:BK:65:GLN:OE1	30:BK:65:GLN:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:13:LYS:HZ1	31:BL:21:LEU:HD11	1.76	0.50
32:BM:98:LEU:HD23	32:BM:99:GLU:OE2	2.10	0.50
32:BM:128:LEU:HD12	32:BM:131:GLY:HA3	1.93	0.50
33:BN:10:PRO:O	33:BN:11:ALA:HB2	2.12	0.50
35:BP:94:TRP:CZ2	35:BP:95:ILE:CG2	2.94	0.50
36:BQ:43:LYS:HB2	36:BQ:43:LYS:NZ	2.26	0.50
37:BR:54:LEU:CG	37:BR:85:TRP:CZ2	2.94	0.50
41:BV:9:LYS:O	41:BV:13:HIS:HE1	1.94	0.50
41:BV:70:PRO:HB2	41:BV:101:ILE:HG21	1.93	0.50
42:B0:100:ILE:HG13	42:B0:106:VAL:CG2	2.41	0.50
44:BX:17:LEU:CD2	44:BX:54:VAL:HG22	2.40	0.50
44:BX:31:LEU:HD13	44:BX:44:ILE:CB	2.38	0.50
46:BZ:66:LYS:NZ	46:BZ:86:ARG:HD2	2.25	0.50
47:B9:28:LEU:CD1	47:B9:28:LEU:H	2.24	0.50
1:AA:101:A:H2'	1:AA:102:G:H8	1.77	0.50
1:AA:255:G:C4'	16:AQ:80:HIS:CB	2.89	0.50
1:AA:598:U:H4'	8:AH:88:TRP:CE2	2.46	0.50
1:AA:956:U:C4'	17:AS:126:VAL:HG11	2.40	0.50
1:AA:1178:G:C6	9:AI:111:TYR:CD1	2.99	0.50
1:AA:1250:A:C4'	9:AI:71:GLY:HA2	2.16	0.50
1:AA:1286:A:C8	1:AA:1287:A:H4'	2.46	0.50
1:AA:1350:A:C2	7:AG:103:ASN:C	2.84	0.50
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.46	0.50
1:AA:1499:A:C5'	1:AA:1520:G:HO2'	2.22	0.50
3:AB:138:VAL:CG1	3:AB:140:ILE:HG13	2.39	0.50
4:AC:105:LYS:HD2	4:AC:183:ILE:CB	2.41	0.50
10:AJ:49:ASN:CG	10:AJ:99:ILE:HG12	2.32	0.50
10:AJ:72:ASN:CG	14:AN:28:GLY:H	2.15	0.50
12:AL:132:LEU:N	12:AL:132:LEU:HD22	2.26	0.50
12:AL:135:LEU:HG	12:AL:136:TRP:O	2.11	0.50
18:B3:28:G:C5	18:B3:1318:A:C2	2.67	0.50
18:B3:29:C:H4'	18:B3:1341:A:O3'	2.12	0.50
18:B3:487:G:OP2	40:BU:90:VAL:HA	2.11	0.50
18:B3:612:U:H2'	18:B3:613:C:C6	2.45	0.50
18:B3:676:C:C2	23:BD:231:SER:HA	2.46	0.50
18:B3:905:C:C5'	41:BV:11:ARG:HD2	2.22	0.50
18:B3:1342:C:C2'	18:B3:1343:C:H5'	2.41	0.50
18:B3:1352:A:O4'	23:BD:50:ALA:CA	2.59	0.50
18:B3:1909:A:N1	18:B3:2128:G:H1'	2.26	0.50
18:B3:2168:G:N1	18:B3:2169:C:C4	2.79	0.50
18:B3:2334:C:H2'	29:BJ:116:ASP:OD2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2337:G:C2	29:BJ:127:TYR:CD2	2.99	0.50
18:B3:2580:G:H5"	18:B3:2680:A:H61	1.76	0.50
18:B3:2841:A:H2	33:BN:68:ARG:HB3	1.75	0.50
19:B4:114:G:H2'	19:B4:115:C:C6	2.46	0.50
20:BA:54:LYS:HG3	20:BA:156:LYS:HB3	0.52	0.50
20:BA:91:LYS:HD3	20:BA:91:LYS:N	2.26	0.50
20:BA:134:PHE:CD1	20:BA:135:PRO:HD2	2.46	0.50
21:BB:59:LYS:HG2	21:BB:71:ARG:O	2.12	0.50
21:BB:67:LYS:HB3	21:BB:72:GLU:H	1.76	0.50
21:BB:128:ALA:O	21:BB:168:ILE:HG21	2.12	0.50
21:BB:189:ARG:HA	21:BB:189:ARG:NE	2.24	0.50
21:BB:190:LEU:HD23	21:BB:191:LYS:H	1.76	0.50
21:BB:191:LYS:HB2	21:BB:191:LYS:NZ	2.26	0.50
22:BC:29:LYS:HD3	22:BC:29:LYS:H	1.75	0.50
22:BC:185:GLY:N	22:BC:190:LYS:HG3	2.25	0.50
22:BC:231:ARG:CG	22:BC:232:TRP:CZ3	2.95	0.50
22:BC:282:TYR:HE2	22:BC:324:LYS:HG3	1.76	0.50
23:BD:64:TRP:HZ3	23:BD:68:ARG:N	2.09	0.50
23:BD:159:GLN:C	23:BD:217:ALA:HB2	2.31	0.50
24:BE:116:ASP:CG	24:BE:143:LYS:H	2.14	0.50
25:BF:83:VAL:HG23	25:BF:136:GLY:N	2.20	0.50
28:BI:49:CYS:HA	28:BI:139:ARG:HE	1.75	0.50
29:BJ:133:PRO:HD2	29:BJ:135:ALA:CB	2.33	0.50
30:BK:93:LYS:CD	30:BK:96:LYS:HD3	2.40	0.50
32:BM:23:ALA:O	32:BM:24:LYS:HG2	2.11	0.50
32:BM:43:SER:HA	32:BM:134:TYR:CD1	2.46	0.50
32:BM:59:LYS:HD3	32:BM:59:LYS:O	2.12	0.50
33:BN:25:PHE:CZ	33:BN:118:VAL:CG2	2.95	0.50
33:BN:96:ASN:O	33:BN:97:ALA:HB3	2.11	0.50
33:BN:123:LYS:HD2	33:BN:123:LYS:N	2.26	0.50
34:BO:59:ARG:HD2	34:BO:60:PRO:HD3	1.92	0.50
40:BU:43:TYR:CE2	40:BU:45:ILE:CG2	2.95	0.50
41:BV:69:LYS:H	41:BV:69:LYS:CE	2.23	0.50
41:BV:98:ALA:HB1	41:BV:99:PRO:CD	2.39	0.50
44:BX:48:ARG:NH1	44:BX:49:LYS:HB3	2.26	0.50
44:BX:51:ILE:HD13	44:BX:51:ILE:C	2.31	0.50
1:AA:402:G:C8	1:AA:621:A:C4	2.93	0.50
1:AA:520:A:C4'	12:AL:90:ASP:CG	2.77	0.50
1:AA:553:A:OP1	12:AL:40:SER:OG	2.27	0.50
1:AA:958:A:C8	17:AS:101:ALA:HB1	2.45	0.50
1:AA:1151:A:O4'	10:AJ:60:THR:N	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1162:C:O2	9:AI:108:PHE:CZ	2.65	0.50
1:AA:1309:G:H8	13:AM:92:ILE:HD12	1.72	0.50
1:AA:1309:G:N2	13:AM:96:LYS:HE3	2.26	0.50
1:AA:1316:G:O6	17:AS:49:MET:HB3	2.10	0.50
1:AA:1329:A:H5"	13:AM:98:TYR:CE2	2.38	0.50
1:AA:1483:A:H5"	18:B3:1988:C:O2'	2.11	0.50
3:AB:141:PRO:N	8:AH:68:LEU:CD1	2.53	0.50
3:AB:145:LEU:HD13	3:AB:159:ILE:CG2	2.41	0.50
3:AB:192:GLN:N	3:AB:193:PRO:HD2	2.26	0.50
6:AE:203:THR:O	6:AE:203:THR:HG23	2.10	0.50
9:AI:49:GLU:N	9:AI:50:PRO:HD2	2.26	0.50
10:AJ:97:VAL:HG13	10:AJ:98:GLN:H	1.76	0.50
15:AO:87:LEU:HD13	15:AO:91:ILE:HG23	1.94	0.50
18:B3:26:U:C1'	18:B3:1319:G:C2'	2.80	0.50
18:B3:44:G:H21	18:B3:45:A:H62	1.60	0.50
18:B3:921:G:H3'	41:BV:40:HIS:CB	2.41	0.50
18:B3:946:C:H5'	25:BF:124:GLU:CG	2.40	0.50
18:B3:1067:A:C5'	25:BF:96:PRO:HG2	2.40	0.50
18:B3:1184:A:O2'	30:BK:86:LYS:HB3	2.11	0.50
18:B3:1285:U:C4'	25:BF:155:ILE:HG12	2.30	0.50
18:B3:1382:G:O2'	43:BW:29:PRO:HG2	2.12	0.50
18:B3:1459:A:C5'	21:BB:20:ARG:HD3	2.41	0.50
18:B3:1593:C:P	35:BP:116:LYS:O	2.69	0.50
18:B3:1654:U:H2'	21:BB:49:HIS:ND1	2.26	0.50
18:B3:1814:G:C4'	18:B3:2733:U:C6	2.84	0.50
18:B3:1875:A:N3	21:BB:151:SER:CB	2.71	0.50
18:B3:2165:G:H2'	20:BA:207:LYS:CE	2.39	0.50
18:B3:2214:A:H1'	20:BA:103:LEU:HD12	1.94	0.50
18:B3:2890:A:H1'	38:BS:50:ALA:HA	1.93	0.50
19:B4:42:C:H5'	19:B4:43:G:OP2	2.12	0.50
19:B4:107:C:H2'	19:B4:108:C:H6	1.75	0.50
19:B4:119:C:C1'	24:BE:72:ASP:N	2.75	0.50
20:BA:119:GLN:O	20:BA:123:LEU:HD23	2.10	0.50
21:BB:6:ASN:N	21:BB:8:ARG:HH21	2.09	0.50
22:BC:115:ARG:HG3	22:BC:173:LYS:HD2	1.94	0.50
22:BC:152:LYS:HD3	22:BC:152:LYS:N	2.27	0.50
22:BC:156:VAL:HG11	22:BC:181:GLN:NE2	2.27	0.50
22:BC:210:GLN:NE2	22:BC:352:GLU:HG2	2.26	0.50
22:BC:237:LEU:HD22	22:BC:237:LEU:N	2.27	0.50
23:BD:112:VAL:HG11	23:BD:117:LYS:HE3	1.92	0.50
24:BE:49:TYR:O	24:BE:50:ARG:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:125:VAL:O	24:BE:126:GLU:HG2	2.11	0.50
24:BE:208:MET:HB2	24:BE:211:LEU:HB3	1.92	0.50
25:BF:117:LYS:HE2	25:BF:118:VAL:HG12	1.93	0.50
25:BF:169:GLU:HG3	25:BF:169:GLU:O	2.10	0.50
25:BF:171:ASN:ND2	25:BF:171:ASN:H	2.10	0.50
26:BG:161:LEU:CD1	31:BL:3:TYR:OH	2.59	0.50
27:BH:173:ARG:HB2	27:BH:173:ARG:HH11	1.74	0.50
28:BI:66:GLU:HG2	28:BI:66:GLU:O	2.10	0.50
28:BI:70:ILE:HD12	28:BI:70:ILE:C	2.32	0.50
30:BK:83:THR:HG23	30:BK:84:ALA:N	2.26	0.50
32:BM:16:GLY:HA3	32:BM:17:ARG:NH2	2.27	0.50
33:BN:13:SER:HB2	33:BN:149:VAL:HB	1.89	0.50
33:BN:25:PHE:CZ	33:BN:28:THR:HG21	2.45	0.50
33:BN:93:LEU:HD12	33:BN:93:LEU:O	2.10	0.50
34:BO:62:VAL:HG21	34:BO:87:VAL:HB	1.92	0.50
34:BO:82:VAL:HG22	34:BO:83:VAL:N	2.25	0.50
35:BP:9:LEU:HD12	35:BP:37:ARG:NE	2.19	0.50
35:BP:24:ASP:HB3	35:BP:25:PRO:CA	2.41	0.50
35:BP:125:GLU:O	35:BP:125:GLU:HG3	2.11	0.50
35:BP:132:LYS:HB3	35:BP:136:ALA:HB2	1.92	0.50
36:BQ:48:ILE:H	36:BQ:48:ILE:CD1	2.24	0.50
36:BQ:72:VAL:HG12	36:BQ:91:LEU:HD12	1.91	0.50
36:BQ:97:LYS:HE3	36:BQ:98:HIS:NE2	2.26	0.50
37:BR:10:LYS:HB2	37:BR:10:LYS:NZ	2.26	0.50
37:BR:54:LEU:CB	37:BR:85:TRP:CZ2	2.95	0.50
37:BR:67:PRO:HG2	37:BR:69:LEU:HB2	1.94	0.50
40:BU:57:LEU:HD11	40:BU:105:VAL:HB	1.93	0.50
41:BV:82:PRO:HD3	41:BV:120:VAL:CG2	2.41	0.50
41:BV:95:LYS:CB	41:BV:122:VAL:HG12	2.41	0.50
41:BV:118:PRO:HB2	41:BV:121:PRO:HA	1.92	0.50
42:B0:89:THR:O	42:B0:90:LYS:HG2	2.12	0.50
43:BW:55:ASN:HD21	43:BW:56:GLN:CD	2.14	0.50
46:BZ:37:GLN:HA	46:BZ:40:ARG:HE	1.76	0.50
1:AA:132:C:O2	1:AA:263:A:C4	2.63	0.50
1:AA:144:G:O6	1:AA:199:G:H4'	2.11	0.50
1:AA:239:U:H2'	1:AA:287:U:H3	1.76	0.50
1:AA:320:C:O4'	1:AA:1435:G:N3	2.45	0.50
1:AA:545:C:H5"	5:AD:67:PRO:HD2	1.92	0.50
1:AA:828:A:H2'	1:AA:829:G:O4'	2.11	0.50
1:AA:1299:A:O5'	13:AM:27:LYS:HE3	2.12	0.50
1:AA:1302:U:O4'	13:AM:44:ASN:CA	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1321:C:C4	17:AS:81:ARG:CG	2.94	0.50
1:AA:1322:C:P	17:AS:122:THR:HG22	2.51	0.50
1:AA:1323:G:OP2	13:AM:135:GLY:HA3	2.10	0.50
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.47	0.50
2:AT:462:PHE:C	2:AT:513:LYS:HZ3	2.14	0.50
3:AB:139:ASN:HA	8:AH:69:ASN:O	2.09	0.50
4:AC:20:LEU:CG	4:AC:76:PHE:CE1	2.94	0.50
4:AC:105:LYS:HG3	4:AC:172:ARG:C	2.31	0.50
5:AD:82:ARG:CD	5:AD:104:PHE:CD1	2.94	0.50
5:AD:122:VAL:HG23	5:AD:123:HIS:N	2.26	0.50
8:AH:50:GLU:CG	8:AH:61:VAL:HB	2.41	0.50
11:AK:38:ILE:HG12	11:AK:39:ALA:N	2.27	0.50
12:AL:88:PRO:O	12:AL:89:ASN:HB2	2.12	0.50
13:AM:91:ASP:HA	13:AM:109:LEU:HG	1.93	0.50
17:AS:77:ARG:O	17:AS:77:ARG:HG3	2.10	0.50
18:B3:72:C:P	44:BX:49:LYS:HE3	2.51	0.50
18:B3:156:C:O4'	31:BL:163:LEU:O	2.28	0.50
18:B3:797:A:H8	47:B9:12:LYS:HE2	1.76	0.50
18:B3:843:A:H3'	33:BN:131:ALA:H	1.75	0.50
18:B3:848:C:H2'	18:B3:849:C:C6	2.46	0.50
18:B3:894:A:N3	23:BD:98:MET:CE	2.74	0.50
18:B3:939:A:O2'	18:B3:940:G:OP2	2.30	0.50
18:B3:1267:C:C4'	42:B0:61:LYS:HZ2	2.18	0.50
18:B3:1304:U:C2'	23:BD:194:ARG:HD2	2.41	0.50
18:B3:1359:U:C4	23:BD:71:ALA:O	2.48	0.50
18:B3:1717:A:P	35:BP:55:THR:HG23	2.52	0.50
18:B3:1733:A:C3'	22:BC:226:GLU:HA	2.26	0.50
18:B3:1810:C:C4	18:B3:2753:G:C4	3.00	0.50
18:B3:1835:U:C5	18:B3:1840:A:N7	2.69	0.50
18:B3:1882:C:OP1	21:BB:200:GLY:C	2.50	0.50
18:B3:2124:G:N3	21:BB:229:VAL:HG11	2.27	0.50
18:B3:2437:A:P	46:BZ:70:ARG:HH22	2.33	0.50
18:B3:2727:A:H2'	18:B3:2728:C:H5'	1.92	0.50
19:B4:46:C:C2'	24:BE:152:ARG:CG	1.85	0.50
19:B4:69:U:P	24:BE:13:SER:HB2	2.51	0.50
20:BA:50:SER:HB3	20:BA:150:ASP:OD2	2.10	0.50
20:BA:190:PHE:CZ	20:BA:200:ASN:CB	2.95	0.50
21:BB:21:LEU:HD22	21:BB:21:LEU:N	2.27	0.50
21:BB:111:ILE:HG22	21:BB:167:VAL:N	2.27	0.50
22:BC:121:TRP:NE1	22:BC:122:TYR:CE2	2.79	0.50
22:BC:176:HIS:HE1	22:BC:335:VAL:CG2	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:349:ALA:C	22:BC:350:LEU:HD22	2.32	0.50
24:BE:42:ALA:CB	24:BE:49:TYR:CD1	2.94	0.50
24:BE:64:ILE:CG2	24:BE:75:LEU:HD21	2.40	0.50
24:BE:205:SER:O	24:BE:206:GLN:HB2	2.11	0.50
25:BF:120:LYS:O	25:BF:121:ALA:HB3	2.11	0.50
26:BG:182:LYS:HG2	26:BG:194:SER:HB3	1.94	0.50
27:BH:20:ILE:CD1	27:BH:25:VAL:HA	2.42	0.50
27:BH:22:SER:O	27:BH:23:ARG:HG3	2.12	0.50
28:BI:57:LEU:O	28:BI:129:VAL:HG23	2.11	0.50
29:BJ:132:ARG:NH2	29:BJ:133:PRO:HG3	2.26	0.50
33:BN:16:ALA:HB3	33:BN:96:ASN:CG	2.31	0.50
33:BN:31:THR:O	33:BN:32:ALA:HB3	2.11	0.50
33:BN:59:PHE:CE1	33:BN:79:LYS:CD	2.95	0.50
34:BO:36:LEU:HD22	34:BO:130:ARG:HH11	1.74	0.50
34:BO:112:ALA:CA	34:BO:115:VAL:HG21	2.36	0.50
39:BT:80:ILE:HG22	39:BT:124:ARG:CA	2.32	0.50
40:BU:35:LEU:CD2	40:BU:40:ARG:HA	2.42	0.50
40:BU:105:VAL:HG12	40:BU:106:ILE:N	2.25	0.50
40:BU:118:LEU:HG	40:BU:118:LEU:O	2.11	0.50
43:BW:22:VAL:CB	43:BW:25:LYS:HB2	2.27	0.50
43:BW:77:LYS:N	43:BW:82:GLU:HG2	2.15	0.50
1:AA:363:A:OP1	12:AL:76:LEU:CB	2.58	0.50
1:AA:560:U:N1	1:AA:563:A:C4'	2.73	0.50
1:AA:562:C:C2	12:AL:32:ARG:HD2	2.42	0.50
1:AA:619:U:H4'	5:AD:141:VAL:O	2.08	0.50
1:AA:728:A:H61	15:AO:108:LYS:CD	2.23	0.50
1:AA:1305:G:O2'	1:AA:1306:A:C8	2.43	0.50
1:AA:1372:U:P	9:AI:13:LYS:HZ3	2.35	0.50
1:AA:1481:U:O2'	1:AA:1482:G:H5'	2.11	0.50
3:AB:107:THR:HG23	3:AB:108:ASN:N	2.27	0.50
3:AB:145:LEU:CD1	3:AB:159:ILE:HG22	2.41	0.50
3:AB:181:LEU:N	3:AB:181:LEU:HD22	2.27	0.50
4:AC:107:LYS:CG	4:AC:112:LEU:HD12	2.41	0.50
5:AD:100:LYS:C	5:AD:191:ALA:HB3	2.32	0.50
7:AG:99:ASN:OD1	7:AG:171:ILE:HG22	2.11	0.50
10:AJ:69:LYS:CB	14:AN:39:ARG:O	2.58	0.50
10:AJ:93:LEU:HD23	10:AJ:99:ILE:HG21	1.92	0.50
11:AK:30:THR:HG23	11:AK:31:ASP:O	2.11	0.50
11:AK:47:VAL:HG11	11:AK:52:ASP:HA	1.94	0.50
18:B3:27:U:N3	18:B3:1318:A:C2	2.78	0.50
18:B3:391:U:O2'	31:BL:195:THR:CG2	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:619:U:H5”	42:B0:46:PHE:HE1	1.77	0.50
18:B3:764:C:P	23:BD:85:GLY:HA3	2.49	0.50
18:B3:939:A:H4’	18:B3:940:G:O5’	2.11	0.50
18:B3:1006:A:H2’	18:B3:1007:A:C8	2.47	0.50
18:B3:1232:A:H5’	18:B3:2553:A:C2	2.47	0.50
18:B3:1285:U:H5”	25:BF:155:ILE:CB	2.41	0.50
18:B3:1309:U:OP2	23:BD:202:ARG:HG2	2.11	0.50
18:B3:1773:G:H1’	47:B9:13:TYR:C	2.06	0.50
18:B3:1786:C:C2’	18:B3:2883:A:H5”	2.27	0.50
18:B3:1789:G:OP1	18:B3:2881:C:O5’	2.29	0.50
18:B3:2050:G:C5’	33:BN:82:TRP:CD2	2.82	0.50
18:B3:2064:U:H5’	18:B3:2652:U:O3’	2.12	0.50
18:B3:2250:G:N1	21:BB:33:TYR:O	2.42	0.50
18:B3:2501:G:N2	28:BI:157:TYR:HD1	2.09	0.50
18:B3:2578:G:H8	18:B3:2578:G:H5’	1.76	0.50
18:B3:2614:C:O2’	22:BC:239:ARG:O	2.30	0.50
19:B4:25:G:H3’	19:B4:25:G:OP1	2.12	0.50
21:BB:103:LEU:HD21	21:BB:135:ILE:HD12	1.94	0.50
21:BB:197:LYS:HD3	21:BB:197:LYS:O	2.11	0.50
22:BC:49:LYS:NZ	22:BC:50:ALA:HA	2.26	0.50
22:BC:231:ARG:CB	22:BC:232:TRP:CZ3	2.94	0.50
23:BD:38:PHE:CZ	23:BD:241:ALA:N	2.79	0.50
24:BE:49:TYR:C	24:BE:50:ARG:HG3	2.31	0.50
24:BE:55:PHE:CD2	24:BE:60:ILE:CD1	2.95	0.50
24:BE:143:LYS:O	24:BE:171:LEU:HD11	2.12	0.50
25:BF:93:LYS:HD3	25:BF:93:LYS:N	2.27	0.50
26:BG:203:ARG:HD2	26:BG:206:ASP:O	2.11	0.50
27:BH:17:THR:CG2	27:BH:18:VAL:H	2.19	0.50
27:BH:104:VAL:CG1	27:BH:111:PHE:CD1	2.94	0.50
27:BH:109:ALA:O	27:BH:110:LYS:HG3	2.11	0.50
29:BJ:71:ARG:HD2	29:BJ:75:ALA:N	2.27	0.50
30:BK:85:LEU:O	30:BK:86:LYS:HB2	2.11	0.50
31:BL:43:ARG:HE	31:BL:46:LYS:HE3	1.76	0.50
31:BL:174:ASN:HB3	31:BL:188:LYS:NZ	2.27	0.50
32:BM:52:LYS:HG3	32:BM:53:TYR:CE1	2.46	0.50
33:BN:44:GLN:CA	33:BN:47:LEU:HD23	2.36	0.50
33:BN:59:PHE:CD1	33:BN:79:LYS:HG3	2.46	0.50
37:BR:18:PRO:CB	37:BR:49:LEU:HD21	2.42	0.50
37:BR:31:ALA:HA	37:BR:32:ARG:HH11	1.76	0.50
38:BS:41:LYS:HD3	38:BS:41:LYS:O	2.12	0.50
39:BT:104:VAL:HG11	39:BT:125:LEU:CG	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:57:LEU:HD11	40:BU:105:VAL:CB	2.42	0.50
40:BU:72:SER:HB3	40:BU:80:VAL:CG2	2.39	0.50
41:BV:97:THR:O	41:BV:98:ALA:HB2	2.12	0.50
43:BW:8:THR:CG2	43:BW:73:ARG:HH22	2.23	0.50
1:AA:115:G:H1'	1:AA:116:A:N7	2.25	0.50
1:AA:545:C:P	5:AD:30:LEU:CD1	2.99	0.50
1:AA:552:U:H5'	12:AL:107:PHE:N	2.27	0.50
1:AA:617:G:OP2	5:AD:146:PHE:CE1	2.63	0.50
1:AA:676:A:C2'	11:AK:121:PRO:HD2	2.42	0.50
1:AA:778:G:H5"	11:AK:127:LYS:O	1.89	0.50
1:AA:1172:C:O2'	1:AA:1173:G:H5'	2.11	0.50
1:AA:1202:G:H2'	1:AA:1203:C:O4'	2.12	0.50
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.77	0.50
1:AA:1343:G:C3'	9:AI:136:ARG:O	2.59	0.50
1:AA:1493:A:O2'	1:AA:1494:G:H5'	2.12	0.50
2:AT:141:THR:HG22	2:AT:483:PHE:HD2	1.76	0.50
3:AB:88:PHE:CE1	3:AB:174:TYR:CB	2.94	0.50
5:AD:44:ARG:CG	5:AD:45:ILE:HG23	2.42	0.50
6:AE:170:PRO:HG2	8:AH:96:ARG:CB	2.42	0.50
6:AE:214:PHE:CZ	8:AH:70:LYS:HD3	2.46	0.50
6:AE:215:VAL:HG12	8:AH:75:SER:OG	2.10	0.50
12:AL:112:LYS:HA	12:AL:120:VAL:O	2.11	0.50
18:B3:68:U:O2'	44:BX:56:THR:HG23	2.12	0.50
18:B3:844:A:P	33:BN:131:ALA:H	2.32	0.50
18:B3:1154:A:H2'	18:B3:1156:C:C2'	2.12	0.50
18:B3:1309:U:C2'	18:B3:1310:U:H5'	2.42	0.50
18:B3:1348:A:C5'	23:BD:241:ALA:HB3	1.93	0.50
18:B3:1378:G:C6	18:B3:2748:G:C8	2.99	0.50
18:B3:1386:G:O2'	18:B3:1387:G:H5'	2.11	0.50
18:B3:1745:G:OP1	37:BR:22:ILE:HG21	2.11	0.50
18:B3:1805:G:P	18:B3:2875:A:O2'	2.70	0.50
18:B3:1806:G:C5'	18:B3:2874:G:C2'	2.77	0.50
18:B3:2060:A:C2'	42:B0:24:ARG:CD	2.87	0.50
18:B3:2445:U:H2'	18:B3:2446:G:C8	2.46	0.50
18:B3:2820:A:C2'	22:BC:89:VAL:HG12	2.42	0.50
19:B4:9:C:N4	24:BE:21:ARG:HD2	2.26	0.50
19:B4:106:C:O2'	19:B4:107:C:H5'	2.11	0.50
20:BA:51:GLY:O	20:BA:54:LYS:N	2.44	0.50
20:BA:157:PHE:CZ	20:BA:165:LEU:CB	2.94	0.50
21:BB:134:ILE:HD11	21:BB:148:ARG:CG	2.42	0.50
22:BC:42:LEU:CD2	22:BC:45:PHE:CE2	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:53:THR:HB	38:BS:17:ARG:HG3	1.93	0.50
22:BC:87:GLY:CA	22:BC:198:PHE:CE1	2.94	0.50
22:BC:161:VAL:HG22	22:BC:178:ALA:O	2.11	0.50
22:BC:231:ARG:HG3	22:BC:232:TRP:HZ3	1.77	0.50
22:BC:282:TYR:CE2	22:BC:324:LYS:CG	2.94	0.50
22:BC:302:LYS:CB	22:BC:320:PHE:CZ	2.93	0.50
22:BC:304:ILE:HD12	22:BC:322:MET:HE2	1.94	0.50
23:BD:250:THR:HG23	23:BD:253:ALA:N	2.21	0.50
24:BE:41:LYS:HG3	24:BE:145:PHE:CE1	2.47	0.50
24:BE:43:LYS:HD2	24:BE:43:LYS:N	2.24	0.50
24:BE:132:THR:O	24:BE:133:GLU:HB3	2.11	0.50
25:BF:167:ILE:HG21	25:BF:183:LEU:HD13	1.91	0.50
27:BH:7:GLU:HB3	27:BH:56:ALA:CB	2.39	0.50
28:BI:103:LEU:HD23	28:BI:118:ALA:CB	2.40	0.50
31:BL:13:LYS:HZ1	31:BL:18:LEU:HG	1.76	0.50
31:BL:161:ARG:CD	31:BL:164:THR:HA	2.39	0.50
33:BN:75:PHE:CZ	33:BN:77:VAL:CG1	2.95	0.50
36:BQ:62:GLY:HA3	36:BQ:76:ILE:HA	1.94	0.50
39:BT:132:LEU:H	39:BT:132:LEU:CD2	2.25	0.50
40:BU:122:LYS:HD3	40:BU:122:LYS:N	2.26	0.50
41:BV:62:LYS:O	41:BV:63:GLN:HB3	2.12	0.50
41:BV:106:ALA:HA	41:BV:108:TYR:HD1	1.70	0.50
42:B0:43:ARG:CZ	42:B0:44:ARG:H	2.23	0.50
42:B0:108:ILE:HD13	42:B0:108:ILE:C	2.31	0.50
45:BY:14:SER:HB2	45:BY:29:GLN:HE22	1.77	0.50
46:BZ:3:VAL:HB	46:BZ:4:PRO:CA	2.34	0.50
1:AA:190(E):U:OP2	16:AQ:130:ILE:CD1	2.58	0.50
1:AA:325:A:H2'	1:AA:326:G:O4'	2.12	0.50
1:AA:619:U:C2	5:AD:127:VAL:O	2.60	0.50
1:AA:1068:G:C5'	1:AA:1388:C:OP1	2.55	0.50
1:AA:1068:G:H8	1:AA:1068:G:OP2	1.94	0.50
1:AA:1345:U:N3	7:AG:76:TYR:CA	2.74	0.50
1:AA:1345:U:H3	7:AG:76:TYR:CA	2.24	0.50
2:AT:433:ARG:HB3	2:AT:457:VAL:HG11	1.93	0.50
4:AC:79:ALA:CB	4:AC:80:PRO:HD3	2.37	0.50
4:AC:114:ILE:HG12	4:AC:137:VAL:HG11	1.94	0.50
5:AD:99:LEU:HD12	5:AD:106:GLU:N	2.26	0.50
6:AE:105:ASP:O	6:AE:106:SER:HB3	2.12	0.50
7:AG:213:LYS:HD3	7:AG:213:LYS:C	2.32	0.50
8:AH:33:ILE:HG23	8:AH:34:ILE:N	2.26	0.50
12:AL:59:ILE:HD11	12:AL:117:ILE:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:142:LYS:HD2	12:AL:142:LYS:C	2.32	0.50
18:B3:166:A:C4'	41:BV:30:GLY:CA	2.65	0.50
18:B3:681:G:O2'	18:B3:682:A:OP2	2.29	0.50
18:B3:698:A:H3'	41:BV:114:LYS:CB	2.23	0.50
18:B3:1433:G:OP2	33:BN:22:ARG:NH1	2.44	0.50
18:B3:1654:U:C5	21:BB:49:HIS:CD2	3.00	0.50
18:B3:1673:U:H5"	39:BT:110:ASN:O	2.12	0.50
18:B3:1788:U:C3'	18:B3:2881:C:C2'	2.27	0.50
18:B3:1795:G:OP1	35:BP:99:ARG:NH2	2.45	0.50
18:B3:2346:C:C6	29:BJ:64:ILE:HG13	2.46	0.50
18:B3:2387:U:H2'	18:B3:2388:C:H6	1.77	0.50
18:B3:2518:C:C2	28:BI:158:LYS:HD2	2.47	0.50
19:B4:6:C:C1'	24:BE:72:ASP:CG	2.79	0.50
19:B4:37:C:O2'	24:BE:154:THR:CA	2.59	0.50
19:B4:47:A:H5"	24:BE:160:PHE:CZ	2.47	0.50
19:B4:49:G:P	24:BE:158:ARG:CA	2.98	0.50
19:B4:97:U:O2	25:BF:220:LYS:CB	2.58	0.50
19:B4:97:U:O2'	25:BF:223:ILE:HG23	2.11	0.50
20:BA:53:LEU:CD2	20:BA:189:PHE:CD2	2.95	0.50
20:BA:85:MET:HG3	20:BA:89:ASP:OD2	2.12	0.50
21:BB:127:ARG:HG2	21:BB:128:ALA:N	2.26	0.50
21:BB:157:ILE:HD12	21:BB:161:ALA:HB3	1.92	0.50
22:BC:77:VAL:O	22:BC:77:VAL:HG23	2.12	0.50
22:BC:302:LYS:O	22:BC:302:LYS:HE2	2.12	0.50
23:BD:25:PHE:HA	23:BD:126:ALA:HA	1.93	0.50
23:BD:112:VAL:HG22	23:BD:113:ASN:N	2.27	0.50
24:BE:16:PHE:CG	36:BQ:19:PHE:CZ	2.73	0.50
26:BG:115:VAL:HG11	26:BG:213:LEU:HD12	1.92	0.50
28:BI:53:VAL:HG13	28:BI:166:ILE:HG12	1.94	0.50
29:BJ:14:GLU:CD	29:BJ:129:VAL:HG13	2.32	0.50
29:BJ:95:PHE:CA	29:BJ:101:PHE:CD2	2.91	0.50
30:BK:53:PHE:CD1	30:BK:86:LYS:CE	2.79	0.50
30:BK:73:VAL:CG1	30:BK:75:PRO:CD	2.88	0.50
31:BL:119:TRP:HE3	31:BL:119:TRP:O	1.94	0.50
31:BL:187:ARG:O	31:BL:188:LYS:HB2	2.11	0.50
32:BM:25:GLN:HE21	32:BM:30:GLN:CB	2.24	0.50
32:BM:58:ARG:NH1	32:BM:60:ALA:HA	2.26	0.50
34:BO:100:THR:HB	34:BO:119:GLY:HA3	1.90	0.50
35:BP:27:GLU:O	35:BP:31:ILE:HG13	2.12	0.50
37:BR:40:LYS:HG2	37:BR:57:MET:O	2.12	0.50
37:BR:46:LEU:HD13	37:BR:46:LEU:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BR:54:LEU:HD11	37:BR:80:ARG:O	2.11	0.50
37:BR:95:PHE:HE2	38:BS:23:ARG:HG3	1.74	0.50
37:BR:117:PRO:CA	37:BR:135:VAL:HG13	2.38	0.50
40:BU:71:SER:O	40:BU:72:SER:HB2	2.12	0.50
42:B0:66:LEU:HG	42:B0:67:SER:O	2.12	0.50
43:BW:7:VAL:N	43:BW:74:ILE:HG22	2.19	0.50
47:B9:22:ARG:NE	47:B9:25:VAL:H	2.09	0.50
1:AA:69:G:H2'	1:AA:171:A:C2	2.47	0.50
1:AA:120:A:C2	1:AA:122:G:C2	2.99	0.50
1:AA:123:C:H5"	1:AA:312:C:HO2'	1.63	0.50
1:AA:404:U:C5	5:AD:36:LEU:HD22	2.46	0.50
1:AA:500:G:O6	5:AD:25:ASP:OD2	2.29	0.50
1:AA:568:G:OP1	6:AE:163:SER:CB	2.59	0.50
1:AA:960:U:H1'	1:AA:1223:C:H5'	1.93	0.50
1:AA:979:C:H5"	17:AS:79:HIS:O	2.12	0.50
1:AA:1150:U:C2	10:AJ:59:PRO:N	2.79	0.50
1:AA:1176:A:O5'	9:AI:107:ALA:HB1	2.12	0.50
2:AT:108:HIS:CB	2:AT:536:LEU:CG	2.83	0.50
4:AC:9:LYS:HB2	4:AC:9:LYS:NZ	2.27	0.50
4:AC:157:ILE:HG22	4:AC:158:HIS:N	2.27	0.50
5:AD:101:VAL:HG23	5:AD:191:ALA:CB	2.42	0.50
5:AD:193:GLU:O	5:AD:196:GLU:HB3	2.11	0.50
8:AH:33:ILE:CG2	8:AH:60:ILE:HD11	2.42	0.50
13:AM:21:ASN:ND2	13:AM:35:ILE:HA	2.27	0.50
16:AQ:69:ILE:HD12	16:AQ:69:ILE:C	2.31	0.50
16:AQ:111:SER:CB	16:AQ:112:PRO:HD3	2.31	0.50
18:B3:51:G:O2'	45:BY:19:ASN:C	2.50	0.50
18:B3:68:U:O4'	44:BX:51:ILE:O	2.29	0.50
18:B3:80:A:H4'	40:BU:73:VAL:HG12	1.87	0.50
18:B3:249:G:O2'	18:B3:250:C:H5'	2.11	0.50
18:B3:553:G:C2'	18:B3:554:G:H5'	2.42	0.50
18:B3:898:G:O5'	41:BV:25:ARG:CG	2.60	0.50
18:B3:1011:C:P	24:BE:15:ARG:NH2	2.85	0.50
18:B3:1067:A:C4'	25:BF:94:ILE:HG22	2.37	0.50
18:B3:1103:C:O2	32:BM:86:MET:CG	2.56	0.50
18:B3:1139:U:H5'	27:BH:62:ARG:CD	2.41	0.50
18:B3:1235:G:C5	32:BM:69:PRO:HD2	2.43	0.50
18:B3:1267:C:C3'	42:B0:61:LYS:HG2	2.35	0.50
18:B3:1343:C:C2	23:BD:188:ALA:HA	2.45	0.50
18:B3:1692:C:O4'	33:BN:129:TYR:CD1	2.62	0.50
18:B3:1707:G:HO2'	35:BP:81:LYS:HG3	1.66	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1805:G:H2'	18:B3:2883:A:N6	2.27	0.50
18:B3:1874:U:O2'	21:BB:125:LEU:HA	2.12	0.50
18:B3:2220:C:O3'	20:BA:212:PRO:HD3	2.12	0.50
18:B3:2242:U:O2'	18:B3:2243:C:O5'	2.29	0.50
18:B3:2296:C:C6	36:BQ:4:SER:N	2.80	0.50
18:B3:2348:C:O2'	18:B3:2349:G:H5'	2.12	0.50
18:B3:2560:C:H5'	27:BH:168:ARG:NE	2.18	0.50
18:B3:2841:A:H2	33:BN:68:ARG:HB2	1.75	0.50
19:B4:37:C:C1'	24:BE:154:THR:HG22	2.42	0.50
21:BB:136:ILE:HG22	21:BB:137:GLY:N	2.26	0.50
22:BC:42:LEU:CD2	22:BC:45:PHE:CD2	2.94	0.50
22:BC:232:TRP:CZ2	22:BC:264:ALA:CB	2.94	0.50
22:BC:287:GLY:HA2	22:BC:302:LYS:HA	1.94	0.50
24:BE:39:GLN:CB	24:BE:145:PHE:CE1	2.95	0.50
26:BG:121:LYS:O	26:BG:124:ALA:HB3	2.11	0.50
27:BH:82:VAL:HG13	27:BH:83:THR:N	2.27	0.50
28:BI:43:VAL:HG11	28:BI:86:HIS:HE1	1.76	0.50
28:BI:60:LEU:O	28:BI:60:LEU:HD23	2.12	0.50
29:BJ:15:LYS:CB	29:BJ:70:VAL:HG21	2.40	0.50
29:BJ:28:ARG:HG3	29:BJ:29:LEU:HD23	1.93	0.50
29:BJ:130:MET:CE	29:BJ:162:PHE:CD2	2.95	0.50
32:BM:7:VAL:C	32:BM:115:LYS:HB3	2.31	0.50
32:BM:8:ILE:HD12	32:BM:18:LEU:CG	2.42	0.50
32:BM:78:ILE:O	32:BM:81:LYS:HG3	2.12	0.50
33:BN:56:ALA:CA	33:BN:73:LYS:HB2	2.42	0.50
33:BN:126:ARG:HG3	33:BN:137:LYS:CB	2.41	0.50
33:BN:135:ILE:HD12	33:BN:135:ILE:C	2.32	0.50
35:BP:114:ILE:HG13	35:BP:118:LEU:HB2	1.94	0.50
35:BP:119:TYR:CD1	35:BP:120:HIS:N	2.80	0.50
36:BQ:60:LYS:HB2	36:BQ:76:ILE:HD12	1.93	0.50
37:BR:35:TYR:CZ	37:BR:61:THR:CB	2.94	0.50
37:BR:66:LYS:N	37:BR:67:PRO:HD2	2.27	0.50
40:BU:36:SER:H	40:BU:39:LEU:HB3	1.76	0.50
40:BU:51:ARG:HG2	40:BU:52:ARG:N	2.26	0.50
40:BU:113:LYS:N	40:BU:116:LYS:HE2	2.22	0.50
44:BX:8:GLU:HA	44:BX:8:GLU:OE1	2.12	0.50
45:BY:30:LYS:CG	45:BY:31:LYS:N	2.75	0.50
45:BY:33:CYS:HA	45:BY:38:TYR:CD1	2.46	0.50
1:AA:11:G:C1'	1:AA:525:C:H1'	2.40	0.50
1:AA:149:A:O2'	1:AA:150:C:H5'	2.11	0.50
1:AA:190:C:H2'	1:AA:190(A):C:H6	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:666:G:H5'	1:AA:726:C:H1'	1.94	0.50
1:AA:948:C:OP2	13:AM:143:ARG:O	2.14	0.50
1:AA:1151:A:H4'	10:AJ:87:HIS:HA	1.94	0.50
1:AA:1222:G:OP1	17:AS:120:SER:CB	2.59	0.50
1:AA:1315:U:C4	17:AS:49:MET:HB3	2.42	0.50
2:AT:464:LEU:HD22	2:AT:510:ARG:HA	1.93	0.50
2:AT:536:LEU:HD22	18:B3:2698:G:C1'	2.40	0.50
4:AC:10:LEU:HD23	4:AC:10:LEU:N	2.27	0.50
4:AC:137:VAL:HG21	4:AC:149:MET:SD	2.52	0.50
5:AD:97:LEU:HD23	5:AD:105:LEU:HG	1.94	0.50
5:AD:100:LYS:HE3	5:AD:173:ALA:CB	2.42	0.50
5:AD:179:ARG:HG3	5:AD:179:ARG:O	2.11	0.50
6:AE:79:VAL:HG22	6:AE:101:VAL:HG22	1.92	0.50
8:AH:81:LYS:HD2	8:AH:123:LYS:HD2	1.93	0.50
9:AI:45:PHE:CZ	9:AI:47:VAL:CG2	2.95	0.50
9:AI:74:VAL:O	9:AI:78:TYR:HD1	1.95	0.50
10:AJ:69:LYS:CE	14:AN:39:ARG:NH1	2.74	0.50
11:AK:27:VAL:HG11	11:AK:63:ALA:HA	1.93	0.50
12:AL:55:GLU:OE2	12:AL:57:LEU:HD11	2.11	0.50
13:AM:91:ASP:CA	13:AM:109:LEU:HG	2.40	0.50
13:AM:132:ARG:CG	13:AM:136:GLN:HE21	2.24	0.50
16:AQ:133:THR:H	16:AQ:135:ARG:NH2	2.08	0.50
18:B3:106:A:HO2'	44:BX:57:VAL:C	2.13	0.50
18:B3:677:C:H5'	23:BD:232:LEU:C	2.32	0.50
18:B3:907:A:H2'	18:B3:908:A:H8	1.77	0.50
18:B3:1429:U:OP1	33:BN:125:ARG:N	2.45	0.50
18:B3:1449:G:P	39:BT:110:ASN:HD21	2.35	0.50
18:B3:1869:A:H1'	21:BB:10:GLY:O	2.11	0.50
18:B3:2578:G:N9	18:B3:2801:A:H5'	2.27	0.50
18:B3:2596:A:C3'	37:BR:73:VAL:HG12	2.42	0.50
18:B3:2756:U:N3	18:B3:2896:A:H2	2.09	0.50
18:B3:2804:C:H2'	18:B3:2805:A:O4'	2.12	0.50
21:BB:36:ARG:HD2	21:BB:36:ARG:H	1.77	0.50
21:BB:44:VAL:HA	21:BB:59:LYS:O	2.12	0.50
21:BB:67:LYS:HG3	21:BB:73:GLU:CA	2.42	0.50
21:BB:104:GLY:CA	21:BB:138:HIS:HE1	2.20	0.50
21:BB:139:ASN:CB	21:BB:140:PRO:HD3	2.38	0.50
22:BC:52:MET:HB3	22:BC:76:THR:N	2.27	0.50
22:BC:113:VAL:HG13	22:BC:117:PHE:CG	2.47	0.50
22:BC:269:ARG:O	22:BC:271:TYR:HD1	1.94	0.50
22:BC:277:ILE:HG22	22:BC:278:ASN:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:282:TYR:CE2	22:BC:324:LYS:CB	2.95	0.50
23:BD:38:PHE:HA	23:BD:41:VAL:HG23	1.94	0.50
23:BD:156:GLU:OE2	23:BD:157:SER:HA	2.12	0.50
23:BD:177:LEU:HA	23:BD:205:LEU:HD13	1.93	0.50
24:BE:190:ILE:HG12	24:BE:192:PRO:CD	2.21	0.50
26:BG:121:LYS:HE2	26:BG:210:LEU:HD23	1.94	0.50
27:BH:112:ILE:HD11	27:BH:128:VAL:HG21	1.94	0.50
28:BI:26:VAL:HG12	28:BI:27:PRO:O	2.12	0.50
28:BI:35:ASP:CA	28:BI:88:ARG:HH12	2.24	0.50
29:BJ:16:LEU:C	29:BJ:17:VAL:HG12	2.32	0.50
29:BJ:36:LEU:HD22	29:BJ:67:HIS:CG	2.46	0.50
30:BK:80:LEU:CD1	30:BK:112:ILE:HG23	2.42	0.50
32:BM:98:LEU:CA	32:BM:101:LEU:HD11	2.42	0.50
32:BM:107:ILE:HG13	32:BM:108:PRO:CD	2.42	0.50
34:BO:111:ARG:O	34:BO:112:ALA:HB3	2.11	0.50
35:BP:80:ARG:HA	35:BP:81:LYS:HZ1	1.77	0.50
35:BP:84:ARG:CA	35:BP:87:ARG:HH21	2.25	0.50
37:BR:11:PHE:CB	37:BR:86:ARG:HG3	2.42	0.50
43:BW:59:TRP:CZ3	43:BW:66:VAL:HG22	2.46	0.50
1:AA:190(H):G:O2'	1:AA:190(I):G:H5'	2.12	0.49
1:AA:1085:U:O3'	1:AA:1086:U:H6	1.95	0.49
1:AA:1375:A:C2	7:AG:76:TYR:CE1	3.00	0.49
1:AA:1497:G:C2	1:AA:1518:A:N3	2.63	0.49
2:AT:261:ASP:OD1	2:AT:262:THR:HG23	2.12	0.49
2:AT:547:HIS:HD2	2:AT:548:ASP:OD1	1.94	0.49
3:AB:70:GLU:HB3	3:AB:118:ARG:HG3	1.93	0.49
3:AB:108:ASN:HD22	3:AB:111:THR:HB	1.77	0.49
4:AC:9:LYS:HB2	4:AC:9:LYS:HZ3	1.77	0.49
6:AE:143:TRP:HD1	6:AE:144:GLY:H	1.59	0.49
8:AH:13:ILE:HB	8:AH:77:ARG:NH1	2.27	0.49
8:AH:26:ILE:O	8:AH:27:ARG:HB2	2.10	0.49
13:AM:74:GLN:O	13:AM:74:GLN:HG3	2.12	0.49
13:AM:86:LEU:HD23	13:AM:98:TYR:CB	2.35	0.49
13:AM:120:ARG:HH21	29:BJ:86:LYS:HE3	1.77	0.49
18:B3:389:G:OP1	46:BZ:46:GLN:OE1	2.30	0.49
18:B3:485:A:O2'	18:B3:487:G:H5'	2.11	0.49
18:B3:618:G:C4'	42:B0:41:VAL:O	2.60	0.49
18:B3:618:G:H8	42:B0:46:PHE:C	2.15	0.49
18:B3:699:C:OP2	41:BV:114:LYS:C	2.51	0.49
18:B3:766:A:H5"	23:BD:72:ARG:HB3	1.93	0.49
18:B3:1301:C:C5	41:BV:8:ARG:CZ	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1381:A:H8	43:BW:25:LYS:CE	2.24	0.49
18:B3:1719:G:OP2	35:BP:19:ARG:CG	2.60	0.49
18:B3:1730:G:H4'	18:B3:1731:C:O5'	2.12	0.49
18:B3:1760:G:H22	35:BP:78:GLY:HA2	1.76	0.49
18:B3:1874:U:OP2	21:BB:127:ARG:HG3	2.06	0.49
18:B3:1900:A:OP1	21:BB:225:SER:CB	2.60	0.49
18:B3:2081:A:C4'	32:BM:69:PRO:CG	2.89	0.49
18:B3:2167:A:HO2'	18:B3:2168:G:P	2.34	0.49
18:B3:2214:A:O4'	20:BA:103:LEU:CD1	2.59	0.49
18:B3:2334:C:C5'	29:BJ:111:LEU:CA	2.89	0.49
18:B3:2382:A:C1'	46:BZ:12:LYS:HB2	2.42	0.49
18:B3:2656:G:O2'	18:B3:2657:G:H5'	2.12	0.49
20:BA:117:ILE:HD12	20:BA:117:ILE:C	2.31	0.49
21:BB:26:ALA:C	21:BB:122:ARG:HD2	2.32	0.49
21:BB:138:HIS:HB2	21:BB:140:PRO:O	2.12	0.49
22:BC:46:LEU:HG	22:BC:47:GLY:O	2.12	0.49
22:BC:48:TYR:CD2	22:BC:334:ILE:CG2	2.95	0.49
22:BC:49:LYS:HE2	22:BC:50:ALA:C	2.32	0.49
22:BC:69:ARG:NE	37:BR:89:ASP:HB2	2.13	0.49
22:BC:75:VAL:HG22	22:BC:326:CYS:HB3	1.93	0.49
22:BC:88:VAL:CG2	22:BC:157:VAL:HG22	2.41	0.49
22:BC:359:ASP:CB	38:BS:16:GLY:H	2.22	0.49
23:BD:96:GLY:O	23:BD:97:ARG:HB2	2.11	0.49
24:BE:163:LEU:HD23	24:BE:167:SER:OG	2.11	0.49
25:BF:222:PHE:CG	25:BF:223:ILE:N	2.80	0.49
29:BJ:23:GLY:H	29:BJ:64:ILE:HD13	1.50	0.49
30:BK:81:VAL:HG13	30:BK:82:ILE:N	2.26	0.49
30:BK:113:ALA:N	30:BK:132:ILE:HD12	2.27	0.49
30:BK:125:LEU:HD13	30:BK:125:LEU:C	2.33	0.49
31:BL:46:LYS:CD	31:BL:118:TYR:HE1	2.08	0.49
33:BN:93:LEU:HD12	33:BN:93:LEU:C	2.32	0.49
35:BP:4:ARG:HD3	35:BP:4:ARG:C	2.32	0.49
35:BP:10:ALA:CB	35:BP:21:VAL:HG21	2.41	0.49
36:BQ:45:ASN:HD21	36:BQ:48:ILE:HG21	1.77	0.49
37:BR:34:LEU:HD22	37:BR:34:LEU:C	2.32	0.49
37:BR:54:LEU:HB2	37:BR:85:TRP:CZ2	2.46	0.49
39:BT:85:VAL:CG2	39:BT:86:SER:H	2.13	0.49
39:BT:132:LEU:HD23	39:BT:132:LEU:N	2.26	0.49
41:BV:7:THR:HG23	41:BV:8:ARG:N	2.27	0.49
41:BV:14:VAL:O	41:BV:15:SER:HB3	2.12	0.49
41:BV:120:VAL:HB	41:BV:122:VAL:HG13	1.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:16:LYS:H	42:B0:16:LYS:CD	2.23	0.49
42:B0:85:LEU:H	42:B0:85:LEU:CD2	2.23	0.49
43:BW:15:LEU:H	43:BW:15:LEU:CD1	2.25	0.49
47:B9:67:ALA:CB	47:B9:68:TYR:CD1	2.95	0.49
1:AA:21:G:H5'	1:AA:884:U:C4'	2.43	0.49
1:AA:33:A:C4'	1:AA:364:A:O2'	2.60	0.49
1:AA:335:C:H1'	1:AA:1434:A:H8	1.23	0.49
1:AA:625:G:H2'	1:AA:626:U:C6	2.48	0.49
1:AA:636:U:H5'	16:AQ:68:LYS:NZ	2.28	0.49
1:AA:657:G:O2'	1:AA:658:G:H5'	2.12	0.49
1:AA:1056:U:O2'	1:AA:1057:G:H5'	2.12	0.49
1:AA:1181:G:H4'	1:AA:1184:G:C4'	2.42	0.49
1:AA:1221:G:H1'	17:AS:102:PHE:HA	1.94	0.49
1:AA:1223:C:C5'	17:AS:100:LYS:CD	2.89	0.49
1:AA:1316:G:N2	17:AS:54:ALA:HB3	2.27	0.49
1:AA:1483:A:O4'	18:B3:1989:G:C1'	2.61	0.49
1:AA:1497:G:H2'	1:AA:1498:U:C5'	2.42	0.49
5:AD:48:GLN:H	5:AD:48:GLN:HE21	1.59	0.49
5:AD:99:LEU:HD22	5:AD:101:VAL:O	2.12	0.49
9:AI:45:PHE:CE1	9:AI:47:VAL:CG2	2.95	0.49
11:AK:38:ILE:HD13	11:AK:69:LYS:CG	2.42	0.49
13:AM:21:ASN:HD22	13:AM:35:ILE:HG12	1.74	0.49
13:AM:132:ARG:CB	13:AM:136:GLN:HE21	2.25	0.49
16:AQ:87:ARG:HG3	16:AQ:104:LYS:HG3	1.93	0.49
17:AS:90:ILE:HD11	17:AS:112:LEU:HD11	1.93	0.49
18:B3:639:A:H2'	18:B3:640:G:C8	2.47	0.49
18:B3:941:G:O2'	18:B3:942:U:H5'	2.12	0.49
18:B3:1060:C:O2	28:BI:111:LEU:HD22	2.12	0.49
18:B3:1163:G:H8	30:BK:51:LYS:HB2	1.64	0.49
18:B3:1308:A:N6	23:BD:201:ARG:NH2	2.60	0.49
18:B3:1396:C:C4'	35:BP:2:ASN:HB3	2.43	0.49
18:B3:1772:C:H5'	47:B9:15:VAL:HG13	1.81	0.49
18:B3:2334:C:H5"	29:BJ:110:ASP:O	2.10	0.49
18:B3:2387:U:HO2'	36:BQ:88:ARG:HB2	1.68	0.49
18:B3:2457:U:C4'	46:BZ:83:THR:HA	2.41	0.49
18:B3:2502:C:H1'	28:BI:157:TYR:CG	2.47	0.49
18:B3:2515:C:C2'	18:B3:2516:G:H5'	2.43	0.49
18:B3:2828:G:P	22:BC:129:PHE:HD1	2.35	0.49
20:BA:53:LEU:HD22	20:BA:189:PHE:CD2	2.47	0.49
21:BB:116:GLU:HG3	21:BB:118:LYS:O	2.12	0.49
21:BB:218:ILE:HD12	21:BB:218:ILE:C	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:28:VAL:HG23	22:BC:28:VAL:O	2.12	0.49
22:BC:55:ILE:CG2	22:BC:57:ARG:HG3	2.42	0.49
22:BC:259:VAL:HG22	22:BC:261:TRP:CB	2.42	0.49
22:BC:261:TRP:O	22:BC:262:SER:HB3	2.12	0.49
23:BD:49:TYR:N	23:BD:49:TYR:CD1	2.80	0.49
23:BD:62:GLU:HA	23:BD:74:PRO:CB	2.42	0.49
23:BD:137:ARG:H	23:BD:137:ARG:CZ	2.25	0.49
24:BE:52:VAL:HG12	24:BE:53:VAL:N	2.27	0.49
25:BF:157:LYS:HG2	25:BF:158:GLN:N	2.27	0.49
26:BG:125:SER:H	26:BG:128:PRO:HG2	1.78	0.49
26:BG:202:VAL:O	26:BG:203:ARG:HB3	2.12	0.49
27:BH:13:PRO:CD	27:BH:16:VAL:HG22	2.42	0.49
27:BH:94:TYR:OH	27:BH:99:ILE:HB	2.11	0.49
28:BI:51:HIS:HA	28:BI:166:ILE:HD11	1.92	0.49
28:BI:54:SER:N	28:BI:135:ILE:HD11	2.28	0.49
29:BJ:96:SER:HB3	29:BJ:101:PHE:CZ	2.47	0.49
30:BK:37:LEU:CD2	30:BK:62:LEU:HD13	2.41	0.49
30:BK:67:ARG:O	30:BK:68:GLN:HB2	2.12	0.49
33:BN:30:GLU:OE1	33:BN:57:ILE:HD12	2.12	0.49
34:BO:67:ILE:HG22	34:BO:94:PHE:CE2	2.47	0.49
35:BP:3:LEU:CD1	35:BP:32:ALA:HA	2.42	0.49
35:BP:7:LYS:HZ3	35:BP:8:ARG:N	2.09	0.49
40:BU:30:LEU:HD13	40:BU:78:PHE:CG	2.46	0.49
40:BU:64:LYS:HD2	40:BU:64:LYS:C	2.32	0.49
42:B0:49:ASN:C	42:B0:50:ILE:HD13	2.03	0.49
43:BW:28:ALA:HB3	43:BW:29:PRO:CD	2.37	0.49
45:BY:27:HIS:C	45:BY:30:LYS:HE2	2.33	0.49
47:B9:10:THR:HA	47:B9:26:LYS:HB3	1.93	0.49
1:AA:143:A:C4'	1:AA:199:G:C2'	2.67	0.49
1:AA:294:U:OP1	1:AA:611:A:H5'	2.12	0.49
1:AA:404:U:O2	5:AD:22:SER:O	2.30	0.49
1:AA:989:C:O2	1:AA:1016:A:N9	2.43	0.49
1:AA:1301:U:H4'	13:AM:30:TYR:H	1.71	0.49
1:AA:1314:C:N4	17:AS:48:GLY:O	2.46	0.49
1:AA:1316:G:O6	17:AS:49:MET:HB2	2.12	0.49
1:AA:1372:U:P	9:AI:13:LYS:NZ	2.85	0.49
1:AA:1375:A:C6	7:AG:76:TYR:CE2	2.96	0.49
1:AA:1404:C:O2'	1:AA:1519:A:C5'	2.57	0.49
1:AA:1413:A:O2'	1:AA:1414:U:H5'	2.13	0.49
1:AA:1442:G:N2	1:AA:1446:A:C8	2.79	0.49
1:AA:1533:C:O2	1:AA:1533:C:H2'	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AT:140:GLU:HG3	2:AT:188:ILE:CD1	2.42	0.49
5:AD:131:GLN:HB3	5:AD:133:HIS:CD2	2.47	0.49
7:AG:79:LYS:HE3	7:AG:164:LEU:CD1	2.41	0.49
9:AI:48:TYR:HD1	9:AI:84:ILE:CD1	2.26	0.49
10:AJ:61:LYS:NZ	10:AJ:86:ILE:HB	2.27	0.49
12:AL:92:CYS:HA	12:AL:136:TRP:HZ3	1.77	0.49
16:AQ:75:VAL:HG22	16:AQ:84:VAL:HG13	1.90	0.49
17:AS:124:THR:HG22	17:AS:125:PRO:N	2.26	0.49
18:B3:67:A:H3'	44:BX:55:LEU:HD21	0.49	0.49
18:B3:93:C:C6	44:BX:42:PRO:HG2	2.47	0.49
18:B3:284:C:H1'	18:B3:285:A:P	2.53	0.49
18:B3:524:A:OP1	33:BN:29:ARG:NH2	2.45	0.49
18:B3:646:G:H5"	23:BD:106:ARG:NH2	2.21	0.49
18:B3:954:U:OP1	36:BQ:13:TYR:HE2	1.95	0.49
18:B3:1116:U:OP1	18:B3:1140:C:N3	2.45	0.49
18:B3:1181:A:H2	30:BK:105:GLN:OE1	1.96	0.49
18:B3:1733:A:O3'	22:BC:226:GLU:HG2	2.12	0.49
18:B3:1829:A:C2	47:B9:17:TYR:CD2	2.74	0.49
18:B3:2065:C:C6	22:BC:255:HIS:ND1	2.79	0.49
18:B3:2101:A:C5'	23:BD:70:VAL:O	2.60	0.49
18:B3:2214:A:C2	20:BA:106:LYS:HE3	2.47	0.49
18:B3:2347:C:H5'	29:BJ:46:GLN:HB3	1.86	0.49
18:B3:2565:C:N3	27:BH:170:LYS:O	2.46	0.49
18:B3:2578:G:O2'	18:B3:2680:A:C5'	2.60	0.49
18:B3:2578:G:O4'	18:B3:2801:A:H5"	2.11	0.49
18:B3:2737:C:C5'	35:BP:59:LYS:N	2.66	0.49
18:B3:2738:G:C3'	35:BP:60:SER:CA	2.91	0.49
19:B4:14:G:N2	24:BE:12:TYR:HA	2.23	0.49
20:BA:91:LYS:HD3	20:BA:91:LYS:H	1.76	0.49
21:BB:4:ILE:HG22	21:BB:4:ILE:O	2.12	0.49
22:BC:39:PRO:HB3	22:BC:183:ASN:N	2.26	0.49
22:BC:45:PHE:CZ	22:BC:83:VAL:CB	2.93	0.49
22:BC:52:MET:HE2	22:BC:53:THR:HG23	1.95	0.49
22:BC:81:PRO:HG2	22:BC:82:PRO:HA	1.94	0.49
22:BC:89:VAL:O	22:BC:89:VAL:HG23	2.12	0.49
23:BD:160:LYS:HD3	23:BD:160:LYS:O	2.12	0.49
25:BF:223:ILE:HD13	25:BF:223:ILE:C	2.32	0.49
27:BH:20:ILE:HD12	27:BH:25:VAL:HG23	1.94	0.49
27:BH:104:VAL:HG11	27:BH:111:PHE:HA	1.94	0.49
28:BI:55:ASN:HB2	28:BI:162:GLN:O	2.11	0.49
29:BJ:17:VAL:HA	29:BJ:69:THR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:121:ILE:HG13	29:BJ:125:ASP:H	1.78	0.49
29:BJ:165:LYS:HZ2	29:BJ:165:LYS:HB3	1.76	0.49
30:BK:65:GLN:HG3	30:BK:117:ARG:HH12	1.76	0.49
30:BK:117:ARG:HD2	30:BK:117:ARG:C	2.32	0.49
31:BL:79:THR:HG23	31:BL:80:TYR:N	2.28	0.49
32:BM:7:VAL:HG22	32:BM:33:VAL:CG2	2.42	0.49
32:BM:89:HIS:N	32:BM:90:LYS:HZ2	2.10	0.49
35:BP:17:GLY:N	35:BP:20:LYS:HZ3	2.10	0.49
35:BP:116:LYS:HD3	35:BP:116:LYS:C	2.32	0.49
36:BQ:46:GLY:O	36:BQ:47:SER:HB2	2.11	0.49
37:BR:57:MET:CE	37:BR:126:TRP:CZ2	2.95	0.49
39:BT:129:TYR:HD1	39:BT:130:ASP:O	1.95	0.49
40:BU:70:ILE:HG23	40:BU:72:SER:H	1.77	0.49
41:BV:9:LYS:N	41:BV:9:LYS:HD3	2.27	0.49
41:BV:20:ARG:HG3	41:BV:21:ILE:N	2.28	0.49
42:B0:22:SER:HA	42:B0:28:VAL:HG23	1.94	0.49
43:BW:16:HIS:CB	43:BW:30:ARG:HG3	2.40	0.49
44:BX:25:LYS:NZ	44:BX:28:LEU:HD22	2.27	0.49
45:BY:9:LYS:HD2	45:BY:9:LYS:C	2.33	0.49
1:AA:130:A:C6	16:AQ:129:PRO:HG3	2.34	0.49
1:AA:190(D):U:HO2'	16:AQ:109:HIS:CD2	2.29	0.49
1:AA:190(F):G:P	16:AQ:109:HIS:CE1	3.05	0.49
1:AA:346:G:OP1	37:BR:136:VAL:O	2.30	0.49
1:AA:393:A:C2	1:AA:394:G:C8	3.01	0.49
1:AA:513:C:H2'	1:AA:514:C:H6	1.77	0.49
1:AA:538:G:O2'	1:AA:539:A:H5'	2.12	0.49
1:AA:645:C:O2'	1:AA:646:U:H5'	2.13	0.49
1:AA:1299:A:H5'	13:AM:57:ARG:HH22	1.77	0.49
1:AA:1372:U:C5'	9:AI:74:VAL:HG23	2.26	0.49
1:AA:1373:G:H5'	7:AG:106:LYS:H	1.77	0.49
6:AE:183:VAL:HG12	6:AE:187:LEU:CD1	2.37	0.49
7:AG:185:ASN:HB2	7:AG:191:GLU:HB2	1.92	0.49
9:AI:48:TYR:CD1	9:AI:84:ILE:CD1	2.94	0.49
9:AI:62:ILE:HG22	9:AI:63:ASP:H	1.76	0.49
10:AJ:29:THR:HG23	10:AJ:30:LYS:N	2.27	0.49
10:AJ:31:VAL:HG23	10:AJ:32:LYS:N	2.28	0.49
10:AJ:52:LYS:HG3	10:AJ:92:ASP:O	2.11	0.49
10:AJ:70:THR:HG1	14:AN:38:CYS:H	1.59	0.49
13:AM:91:ASP:OD1	13:AM:111:ASP:N	2.44	0.49
17:AS:67:ALA:CB	17:AS:68:PRO:HD3	2.41	0.49
18:B3:53:C:O4'	18:B3:121:U:H2'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:178:U:H5”	45:BY:47:ASN:HB3	1.94	0.49
18:B3:555:U:H6	18:B3:555:U:OP2	1.95	0.49
18:B3:920:C:P	41:BV:38:HIS:HD1	2.35	0.49
18:B3:969:G:H2’	18:B3:970:U:C6	2.48	0.49
18:B3:1056:U:OP2	28:BI:110:ARG:N	2.45	0.49
18:B3:1072:G:H1’	18:B3:1088:A:N6	2.27	0.49
18:B3:1166:G:C5	30:BK:107:ASP:OD2	2.66	0.49
18:B3:1315:G:C2	42:B0:107:VAL:HG21	2.47	0.49
18:B3:1596:U:OP2	35:BP:102:ARG:CD	2.61	0.49
18:B3:1869:A:C4	21:BB:10:GLY:HA2	2.46	0.49
18:B3:1939:U:C4’	21:BB:241:ARG:CG	2.74	0.49
18:B3:2225:U:H2’	18:B3:2226:U:C6	2.47	0.49
18:B3:2655:U:C6	22:BC:261:TRP:CE2	3.00	0.49
18:B3:2655:U:C6	22:BC:261:TRP:CZ2	2.96	0.49
20:BA:60:ARG:HD3	20:BA:61:PRO:HG3	1.94	0.49
20:BA:87:VAL:HG13	20:BA:88:ASP:N	2.27	0.49
20:BA:120:VAL:HG23	20:BA:124:LEU:HB2	1.94	0.49
20:BA:161:LYS:H	20:BA:161:LYS:CD	2.22	0.49
21:BB:2:ARG:NE	21:BB:206:VAL:HG22	2.27	0.49
21:BB:4:ILE:HG13	21:BB:207:ASP:O	2.11	0.49
22:BC:40:VAL:O	22:BC:41:ALA:HB3	2.12	0.49
23:BD:21:LEU:HG	23:BD:22:PRO:CD	2.42	0.49
23:BD:133:LEU:CD1	23:BD:137:ARG:HE	2.24	0.49
23:BD:232:LEU:HB2	23:BD:256:LYS:CE	2.42	0.49
24:BE:23:ARG:HA	24:BE:23:ARG:NE	2.25	0.49
24:BE:42:ALA:HB3	24:BE:44:TYR:O	2.12	0.49
24:BE:123:GLU:HG2	24:BE:124:GLU:N	2.27	0.49
24:BE:183:TRP:CE3	24:BE:184:ASP:HB2	2.47	0.49
25:BF:138:PRO:HB2	25:BF:143:ILE:CG1	2.42	0.49
26:BG:115:VAL:CG1	26:BG:117:GLU:HB2	2.43	0.49
28:BI:40:LYS:HD3	28:BI:40:LYS:N	2.25	0.49
29:BJ:16:LEU:O	29:BJ:70:VAL:HG22	2.11	0.49
32:BM:43:SER:CB	32:BM:134:TYR:CD1	2.95	0.49
32:BM:79:PHE:CZ	32:BM:103:VAL:CG1	2.95	0.49
35:BP:99:ARG:CZ	35:BP:100:VAL:HG13	2.42	0.49
35:BP:140:HIS:O	35:BP:142:ILE:HG12	2.11	0.49
36:BQ:34:TYR:CE1	36:BQ:97:LYS:CB	2.95	0.49
37:BR:33:ASN:HD21	37:BR:63:LYS:HD2	1.77	0.49
38:BS:41:LYS:HD3	38:BS:41:LYS:C	2.32	0.49
38:BS:52:THR:H	38:BS:55:PHE:HB3	1.76	0.49
42:B0:120:THR:HG23	42:B0:121:ASN:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:33:LYS:HA	43:BW:36:LYS:HG2	1.94	0.49
45:BY:9:LYS:HE2	45:BY:10:ARG:HA	1.93	0.49
46:BZ:17:ARG:HG2	46:BZ:18:LYS:N	2.23	0.49
1:AA:55:A:C2	2:AT:68:ILE:CA	2.95	0.49
1:AA:112:G:H5'	1:AA:390:C:P	2.53	0.49
1:AA:121:C:C5	1:AA:235:C:C6	3.00	0.49
1:AA:136:C:H2'	1:AA:137:C:H6	1.77	0.49
1:AA:318:G:O2'	1:AA:1468:A:C4'	2.60	0.49
1:AA:834:C:H2'	1:AA:835:U:C6	2.47	0.49
1:AA:960:U:O2'	1:AA:1223:C:H4'	2.13	0.49
1:AA:988:G:N3	1:AA:1014:A:O2'	2.43	0.49
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.47	0.49
1:AA:1226:C:C1'	17:AS:124:THR:O	2.50	0.49
1:AA:1286:A:H2'	1:AA:1287:A:C4'	2.42	0.49
1:AA:1309:G:N1	13:AM:95:GLY:CA	2.69	0.49
1:AA:1488:G:H2'	1:AA:1489:G:H8	1.75	0.49
2:AT:379:MET:HB2	2:AT:402:ALA:HB3	1.94	0.49
3:AB:173:TRP:HD1	3:AB:176:LEU:HD21	1.77	0.49
5:AD:66:ASP:HB2	5:AD:67:PRO:CD	2.43	0.49
7:AG:210:ILE:HD12	7:AG:210:ILE:H	1.78	0.49
8:AH:33:ILE:HD12	8:AH:60:ILE:CD1	2.42	0.49
8:AH:105:THR:HG21	8:AH:120:VAL:HG23	1.92	0.49
10:AJ:65:ILE:HG23	10:AJ:65:ILE:O	2.12	0.49
11:AK:38:ILE:HD13	11:AK:69:LYS:HG3	1.94	0.49
18:B3:26:U:C2	18:B3:1319:G:C2'	2.96	0.49
18:B3:68:U:OP2	39:BT:59:TYR:OH	2.29	0.49
18:B3:164:G:C3'	41:BV:31:ARG:HB2	2.43	0.49
18:B3:480:C:H3'	18:B3:481:U:H5"	1.94	0.49
18:B3:620:A:O5'	42:B0:39:ASP:O	2.24	0.49
18:B3:629:A:C5'	42:B0:38:ILE:CB	2.66	0.49
18:B3:751:U:P	23:BD:112:VAL:HA	2.53	0.49
18:B3:1132:A:H2'	18:B3:1133:A:C8	2.46	0.49
18:B3:1192:A:N7	30:BK:51:LYS:CE	2.72	0.49
18:B3:1304:U:O2'	23:BD:194:ARG:CB	2.54	0.49
18:B3:1805:G:H2'	18:B3:1806:G:C8	2.47	0.49
18:B3:1846:U:OP1	21:BB:195:TRP:CZ2	2.65	0.49
18:B3:2134:G:N7	18:B3:2258:A:H2'	2.28	0.49
18:B3:2166:G:C6	20:BA:61:PRO:CG	2.89	0.49
18:B3:2283:G:H2'	28:BI:114:GLY:H	1.77	0.49
18:B3:2634:G:C5	21:BB:214:ASN:ND2	2.79	0.49
19:B4:34:A:C2'	24:BE:185:PHE:CE1	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:51:A:OP2	24:BE:92:LEU:CG	2.60	0.49
21:BB:195:TRP:HZ2	21:BB:197:LYS:HD2	1.71	0.49
22:BC:188:SER:C	22:BC:191:VAL:HG22	2.32	0.49
22:BC:221:LYS:HD2	22:BC:221:LYS:O	2.12	0.49
23:BD:215:VAL:HG21	23:BD:218:LEU:HD22	1.90	0.49
24:BE:36:LEU:O	24:BE:36:LEU:HD12	2.13	0.49
26:BG:153:ALA:CB	26:BG:196:VAL:HG12	2.40	0.49
26:BG:196:VAL:O	26:BG:197:ALA:HB2	2.12	0.49
27:BH:124:ARG:HD3	27:BH:125:ASN:N	2.27	0.49
28:BI:90:ARG:NE	28:BI:90:ARG:HA	2.28	0.49
28:BI:121:LYS:CD	28:BI:121:LYS:H	2.23	0.49
28:BI:167:LEU:HD22	28:BI:168:SER:H	1.77	0.49
29:BJ:10:ASP:HB3	29:BJ:161:TRP:CH2	2.48	0.49
29:BJ:44:PRO:HB2	29:BJ:67:HIS:CA	2.42	0.49
29:BJ:140:ARG:O	29:BJ:142:ARG:HD2	2.13	0.49
31:BL:52:TYR:CE2	31:BL:60:ILE:CG2	2.96	0.49
33:BN:17:ARG:HG3	33:BN:147:LEU:N	2.28	0.49
35:BP:7:LYS:NZ	35:BP:7:LYS:HB3	2.22	0.49
35:BP:8:ARG:HH12	35:BP:18:LYS:HZ3	1.60	0.49
37:BR:93:LEU:HD23	38:BS:20:LEU:C	2.32	0.49
39:BT:82:VAL:HB	39:BT:83:PHE:HD1	1.69	0.49
40:BU:38:GLU:CA	40:BU:40:ARG:HH21	2.25	0.49
40:BU:42:GLN:O	40:BU:43:TYR:HD1	1.96	0.49
40:BU:49:PRO:O	40:BU:50:ILE:HB	2.13	0.49
41:BV:23:LYS:HD2	41:BV:23:LYS:C	2.31	0.49
41:BV:26:LYS:HA	41:BV:26:LYS:NZ	2.27	0.49
41:BV:100:VAL:O	41:BV:100:VAL:HG12	2.12	0.49
41:BV:110:LYS:HZ3	41:BV:127:ARG:HH21	1.60	0.49
41:BV:114:LYS:C	41:BV:114:LYS:HD2	2.33	0.49
42:B0:42:VAL:HA	42:B0:49:ASN:CB	2.42	0.49
46:BZ:3:VAL:CB	46:BZ:4:PRO:HA	2.31	0.49
47:B9:32:GLN:CG	47:B9:68:TYR:CA	2.90	0.49
1:AA:129(A):G:O2'	16:AQ:137:ASN:CB	2.61	0.49
1:AA:500:G:N2	1:AA:546:G:OP2	2.44	0.49
1:AA:1127:G:N2	1:AA:1147:C:N4	2.61	0.49
1:AA:1373:G:O4'	7:AG:104:GLY:CA	2.61	0.49
2:AT:108:HIS:CE1	2:AT:540:ILE:CG2	2.96	0.49
2:AT:605:ILE:HD12	2:AT:605:ILE:N	2.27	0.49
5:AD:60:LEU:O	5:AD:64:GLU:HG2	2.13	0.49
5:AD:99:LEU:CB	5:AD:106:GLU:H	2.17	0.49
9:AI:19:ALA:HB1	9:AI:64:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:37:VAL:HG23	10:AJ:38:SER:H	1.77	0.49
10:AJ:52:LYS:HE2	10:AJ:93:LEU:CD1	2.37	0.49
13:AM:23:ASP:OD1	13:AM:31:ALA:HB1	2.13	0.49
15:AO:112:PHE:CD1	15:AO:115:ILE:HD12	2.48	0.49
16:AQ:116:VAL:O	16:AQ:116:VAL:HG13	2.11	0.49
18:B3:78:G:C1'	40:BU:25:SER:HG	2.10	0.49
18:B3:123:U:N1	39:BT:88:LYS:HE3	2.27	0.49
18:B3:124:C:C5	39:BT:88:LYS:HG3	2.43	0.49
18:B3:195:C:C2'	18:B3:196:G:H5'	2.42	0.49
18:B3:440:C:H2'	18:B3:441:A:C8	2.48	0.49
18:B3:618:G:O4'	42:B0:46:PHE:N	2.45	0.49
18:B3:750:A:O2'	23:BD:116:GLU:HB3	2.12	0.49
18:B3:953:G:OP2	36:BQ:13:TYR:CA	2.55	0.49
18:B3:1103:C:H1'	32:BM:86:MET:CG	2.42	0.49
18:B3:1267:C:C5'	42:B0:61:LYS:HZ2	2.25	0.49
18:B3:1370:G:N7	33:BN:27:ASN:HB2	2.25	0.49
18:B3:1743:G:H21	37:BR:18:PRO:CG	2.25	0.49
18:B3:2065:C:H6	22:BC:255:HIS:ND1	2.10	0.49
18:B3:2101:A:C5'	23:BD:70:VAL:HG22	2.42	0.49
18:B3:2546:U:C4'	22:BC:238:PRO:HD3	2.41	0.49
18:B3:2615:U:H5'	22:BC:240:LYS:CA	2.43	0.49
18:B3:2848:G:OP2	22:BC:173:LYS:NZ	2.46	0.49
19:B4:35:C:C2	24:BE:203:HIS:ND1	2.81	0.49
19:B4:86:G:C6	25:BF:220:LYS:CG	2.95	0.49
20:BA:16:LEU:HD21	20:BA:208:SER:N	2.27	0.49
20:BA:41:TYR:OH	20:BA:159:LEU:HD21	2.13	0.49
20:BA:53:LEU:CD2	20:BA:189:PHE:CG	2.95	0.49
20:BA:100:ILE:CG2	20:BA:127:GLN:HG3	2.42	0.49
21:BB:6:ASN:ND2	21:BB:233:LYS:HG2	2.26	0.49
21:BB:207:ASP:OD1	21:BB:211:GLY:HA2	2.13	0.49
22:BC:75:VAL:HG11	22:BC:326:CYS:H	1.73	0.49
22:BC:84:VAL:HG22	22:BC:162:HIS:ND1	2.27	0.49
22:BC:93:GLU:O	22:BC:99:ARG:HD2	2.12	0.49
22:BC:223:HIS:NE2	22:BC:269:ARG:HD2	2.28	0.49
22:BC:235:LYS:HE2	22:BC:246:ARG:NH2	2.28	0.49
23:BD:50:ALA:HB2	23:BD:104:THR:HB	1.94	0.49
23:BD:140:ARG:HH21	23:BD:178:LEU:CB	2.21	0.49
24:BE:122:VAL:HG12	24:BE:123:GLU:O	2.12	0.49
24:BE:185:PHE:HA	24:BE:202:GLY:O	2.13	0.49
24:BE:199:ILE:O	24:BE:199:ILE:HG23	2.12	0.49
25:BF:116:VAL:HG12	25:BF:122:THR:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:146:LEU:HD12	25:BF:146:LEU:N	2.28	0.49
27:BH:9:GLN:HA	27:BH:54:LYS:HG2	1.92	0.49
27:BH:42:ASP:OD2	32:BM:124:ARG:HA	2.09	0.49
27:BH:43:VAL:HG12	32:BM:127:ARG:N	2.22	0.49
27:BH:83:THR:HG23	27:BH:83:THR:O	2.11	0.49
28:BI:49:CYS:SG	28:BI:168:SER:HB3	2.53	0.49
33:BN:30:GLU:CD	33:BN:57:ILE:HD12	2.33	0.49
33:BN:37:GLY:N	33:BN:113:VAL:HG13	2.21	0.49
35:BP:22:TRP:N	35:BP:22:TRP:CD2	2.81	0.49
36:BQ:75:ILE:HG21	36:BQ:88:ARG:C	2.33	0.49
39:BT:102:TYR:CE2	39:BT:104:VAL:HB	2.47	0.49
41:BV:72:LEU:HD21	41:BV:77:LEU:CD1	2.41	0.49
45:BY:46:TYR:HD2	45:BY:48:TRP:CD2	2.31	0.49
46:BZ:65:LYS:HG2	46:BZ:65:LYS:O	2.12	0.49
47:B9:29:GLU:HB3	47:B9:31:GLN:CB	2.43	0.49
47:B9:54:TRP:CE2	47:B9:70:VAL:HA	2.47	0.49
47:B9:73:ALA:O	47:B9:74:ALA:HB3	2.12	0.49
1:AA:6:G:C2’	6:AE:196:TYR:CE2	2.95	0.49
1:AA:31:G:O6	1:AA:48:C:OP1	2.29	0.49
1:AA:218:C:H2’	1:AA:219:C:H6	1.77	0.49
1:AA:279:A:H5”	1:AA:280:C:H3’	1.95	0.49
1:AA:335:C:C5’	1:AA:1434:A:O3’	2.61	0.49
1:AA:519:C:C5’	12:AL:67:ALA:HB1	2.41	0.49
1:AA:825:G:H2’	1:AA:826:C:H6	1.78	0.49
1:AA:1121:U:H2’	1:AA:1122:U:C6	2.47	0.49
1:AA:1194:U:O2’	1:AA:1195:C:H5’	2.13	0.49
1:AA:1241:G:H2’	1:AA:1242:C:H6	1.77	0.49
1:AA:1329:A:C2’	1:AA:1330:U:H5’	2.43	0.49
2:AT:536:LEU:CD2	18:B3:2698:G:C4’	2.89	0.49
3:AB:40:ARG:NH2	3:AB:44:VAL:HG21	2.28	0.49
3:AB:119:LEU:HD12	3:AB:141:PRO:HB2	1.93	0.49
4:AC:27:GLU:HB3	4:AC:64:ARG:HH21	1.77	0.49
5:AD:86:LEU:HD11	5:AD:103:ASP:HB3	1.94	0.49
5:AD:175:ARG:NE	5:AD:175:ARG:H	2.11	0.49
6:AE:80:MET:O	6:AE:81:ASN:HB3	2.12	0.49
6:AE:153:LEU:CD2	8:AH:98:PHE:HD1	2.26	0.49
7:AG:102:ASN:HD22	7:AG:102:ASN:N	2.11	0.49
8:AH:41:GLN:NE2	8:AH:48:GLU:HA	2.28	0.49
9:AI:33:SER:OG	9:AI:37:LEU:HD23	2.12	0.49
9:AI:58:LYS:O	9:AI:59:PHE:HB2	2.13	0.49
10:AJ:46:GLU:OE1	10:AJ:46:GLU:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:15:VAL:CB	11:AK:30:THR:HG22	2.35	0.49
11:AK:83:ARG:O	11:AK:84:ALA:HB3	2.13	0.49
15:AO:114:LEU:HA	15:AO:117:ILE:HG12	1.93	0.49
17:AS:83:MET:CE	17:AS:116:LEU:HD11	2.41	0.49
18:B3:91:G:O4'	44:BX:39:PRO:HB2	2.12	0.49
18:B3:906:C:O2	18:B3:1329:A:N7	2.46	0.49
18:B3:969:G:H4'	28:BI:40:LYS:HA	1.94	0.49
18:B3:1002:G:C3'	28:BI:90:ARG:NH1	2.76	0.49
18:B3:1134:G:C5'	18:B3:1229:C:C1'	2.80	0.49
18:B3:1225:C:OP1	18:B3:1249:U:H1'	2.13	0.49
18:B3:1304:U:H5'	23:BD:193:TYR:OH	2.12	0.49
18:B3:1742:A:H8	18:B3:2723:G:C4'	2.09	0.49
18:B3:1788:U:C5'	18:B3:2882:G:H3'	2.43	0.49
18:B3:1810:C:H1'	18:B3:2753:G:C1'	2.42	0.49
18:B3:1887:U:H2'	18:B3:1888:C:C6	2.48	0.49
18:B3:2415:A:N1	24:BE:35:ARG:CD	2.74	0.49
18:B3:2809:G:C4'	22:BC:18:ARG:HH21	2.14	0.49
18:B3:2823:G:OP2	22:BC:135:LYS:HB2	2.13	0.49
18:B3:2847:G:P	22:BC:172:GLN:OE1	2.71	0.49
19:B4:49:G:OP2	24:BE:98:ALA:HB1	2.13	0.49
19:B4:52:A:O2'	19:B4:53:G:H5'	2.12	0.49
20:BA:53:LEU:CD2	20:BA:189:PHE:CE2	2.95	0.49
21:BB:233:LYS:O	21:BB:234:ALA:HB3	2.12	0.49
22:BC:78:VAL:HG12	22:BC:79:ASP:N	2.27	0.49
22:BC:201:THR:HG22	22:BC:202:VAL:H	1.75	0.49
23:BD:186:LEU:N	23:BD:199:THR:HA	2.26	0.49
25:BF:86:VAL:O	25:BF:86:VAL:HG13	2.12	0.49
25:BF:140:TYR:O	25:BF:141:SER:HB3	2.11	0.49
27:BH:181:VAL:HG22	27:BH:183:HIS:O	2.12	0.49
28:BI:70:ILE:HD13	28:BI:74:LYS:HD3	1.94	0.49
29:BJ:9:ARG:HH22	29:BJ:133:PRO:CB	2.25	0.49
31:BL:156:LYS:HG2	31:BL:157:HIS:N	2.27	0.49
32:BM:25:GLN:HG2	32:BM:30:GLN:CB	2.27	0.49
34:BO:104:LEU:CD2	34:BO:105:ARG:H	2.20	0.49
34:BO:109:GLY:O	34:BO:113:LYS:HB2	2.13	0.49
34:BO:112:ALA:O	34:BO:113:LYS:HD2	2.12	0.49
35:BP:139:GLU:O	35:BP:142:ILE:HD13	2.13	0.49
36:BQ:11:THR:C	36:BQ:12:ARG:HD2	2.32	0.49
37:BR:70:ARG:HH22	37:BR:71:LYS:HB2	1.77	0.49
39:BT:68:SER:H	39:BT:71:ALA:HB3	1.77	0.49
41:BV:27:HIS:HB3	41:BV:28:PRO:CA	2.35	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:70:PRO:CB	41:BV:101:ILE:HG21	2.42	0.49
41:BV:96:GLU:HA	41:BV:123:ILE:CD1	2.41	0.49
41:BV:144:VAL:HG12	41:BV:145:GLU:N	2.27	0.49
43:BW:11:TYR:CE2	43:BW:35:ILE:CB	2.96	0.49
43:BW:13:ILE:HD12	43:BW:17:LYS:HE2	1.89	0.49
43:BW:50:LEU:O	43:BW:51:ALA:HB2	2.12	0.49
45:BY:33:CYS:CA	45:BY:38:TYR:HE1	2.26	0.49
1:AA:68:G:C3'	1:AA:73:C:P	3.01	0.49
1:AA:129:U:O2'	16:AQ:129:PRO:HD3	2.13	0.49
1:AA:942:G:O2'	1:AA:943:U:H5'	2.11	0.49
1:AA:1136:U:H5"	1:AA:1137:C:OP2	2.12	0.49
1:AA:1220:G:C5	17:AS:79:HIS:N	2.59	0.49
1:AA:1309:G:C8	13:AM:92:ILE:HG22	1.62	0.49
1:AA:1499:A:OP1	1:AA:1521:G:OP1	2.31	0.49
2:AT:501:LEU:CB	12:AL:99:ASN:HB2	2.42	0.49
5:AD:148:VAL:HG13	5:AD:152:SER:OG	2.13	0.49
7:AG:219:VAL:O	7:AG:222:SER:HB2	2.13	0.49
8:AH:25:LEU:HD13	8:AH:59:LYS:HD3	1.95	0.49
8:AH:76:PRO:O	8:AH:128:VAL:HG23	2.12	0.49
9:AI:18:VAL:CG2	9:AI:67:ARG:H	2.25	0.49
9:AI:26:GLY:HA2	9:AI:62:ILE:O	2.11	0.49
9:AI:47:VAL:HA	9:AI:81:ARG:HB2	1.95	0.49
10:AJ:70:THR:C	14:AN:39:ARG:N	2.50	0.49
11:AK:48:LYS:HE3	11:AK:48:LYS:CA	2.17	0.49
11:AK:101:LEU:HD11	11:AK:114:ILE:CG1	2.43	0.49
17:AS:107:ILE:HG22	17:AS:111:MET:SD	2.53	0.49
18:B3:471:G:H5"	45:BY:15:HIS:CD2	2.48	0.49
18:B3:496:G:H4'	18:B3:497:A:OP1	2.12	0.49
18:B3:644:G:C5	41:BV:16:ALA:HB3	2.47	0.49
18:B3:796:A:O4'	47:B9:12:LYS:CB	2.24	0.49
18:B3:1350:U:H6	23:BD:43:LYS:HA	1.77	0.49
18:B3:1358:A:H2	23:BD:86:GLN:HB3	1.68	0.49
18:B3:1463:A:H2'	18:B3:1464:U:C6	2.48	0.49
18:B3:1477:C:C5'	18:B3:1868:G:H5"	2.43	0.49
18:B3:1798:C:C5'	35:BP:70:ARG:O	2.56	0.49
18:B3:2346:C:P	29:BJ:47:SER:O	2.68	0.49
18:B3:2381:C:H4'	46:BZ:8:LYS:HE3	1.95	0.49
18:B3:2885:A:H2'	18:B3:2886:C:H6	1.78	0.49
20:BA:68:PHE:CD1	20:BA:85:MET:CE	2.95	0.49
21:BB:4:ILE:CG2	21:BB:208:HIS:HA	2.43	0.49
22:BC:39:PRO:HG3	22:BC:182:LEU:HD23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:157:VAL:O	22:BC:182:LEU:HD13	2.13	0.49
22:BC:191:VAL:HG23	22:BC:192:ASP:N	2.27	0.49
22:BC:251:ILE:CG2	22:BC:261:TRP:HB3	2.42	0.49
23:BD:31:PRO:O	23:BD:34:VAL:HG22	2.13	0.49
23:BD:173:ALA:O	23:BD:174:HIS:HB3	2.12	0.49
24:BE:63:GLN:CG	24:BE:64:ILE:H	2.22	0.49
24:BE:227:LEU:O	24:BE:228:ALA:HB2	2.13	0.49
25:BF:87:ARG:HH21	25:BF:109:ARG:C	2.16	0.49
28:BI:105:CYS:HB2	28:BI:111:LEU:CB	2.42	0.49
28:BI:116:ARG:HH11	28:BI:117:GLY:HA2	1.78	0.49
29:BJ:62:GLU:HB3	29:BJ:64:ILE:HG22	1.94	0.49
31:BL:88:VAL:H	31:BL:90:GLU:CD	2.16	0.49
31:BL:119:TRP:HB3	31:BL:128:TYR:C	2.32	0.49
32:BM:72:PHE:CE2	32:BM:81:LYS:HB3	2.47	0.49
33:BN:59:PHE:CE1	33:BN:80:ALA:CA	2.94	0.49
33:BN:137:LYS:H	33:BN:137:LYS:CD	2.15	0.49
34:BO:33:TYR:HA	34:BO:36:LEU:HG	1.95	0.49
35:BP:51:LYS:HE2	35:BP:52:LYS:HE3	1.89	0.49
35:BP:85:GLU:O	35:BP:86:ALA:HB3	2.12	0.49
36:BQ:43:LYS:CA	36:BQ:58:GLN:HG2	2.43	0.49
37:BR:57:MET:CE	37:BR:126:TRP:CH2	2.96	0.49
37:BR:83:LYS:HE2	37:BR:83:LYS:CA	2.35	0.49
38:BS:51:TRP:HZ3	38:BS:56:ARG:CD	2.26	0.49
39:BT:75:VAL:HG12	39:BT:80:ILE:HA	1.95	0.49
40:BU:39:LEU:HD11	40:BU:43:TYR:CE1	2.46	0.49
41:BV:70:PRO:N	41:BV:108:TYR:HB2	2.27	0.49
44:BX:25:LYS:NZ	44:BX:51:ILE:HG13	2.27	0.49
45:BY:48:TRP:C	45:BY:48:TRP:CD1	2.85	0.49
46:BZ:9:THR:CB	46:BZ:19:HIS:HB3	2.43	0.49
47:B9:32:GLN:CG	47:B9:68:TYR:HA	2.42	0.49
47:B9:67:ALA:HB1	47:B9:68:TYR:HD1	1.77	0.49
1:AA:70:G:O2'	1:AA:152:A:C2	2.66	0.49
1:AA:92:C:O2'	1:AA:93:G:H5'	2.13	0.49
1:AA:131:C:H1'	1:AA:264:U:O2	2.10	0.49
1:AA:321:A:H5'	1:AA:1437:C:C4'	2.41	0.49
1:AA:335:C:O4'	1:AA:1435:G:OP2	2.30	0.49
1:AA:777:A:C3'	11:AK:126:ARG:NH1	2.67	0.49
1:AA:1230:C:O2'	1:AA:1231:G:H5'	2.12	0.49
1:AA:1329:A:C6	13:AM:94:ASP:O	2.39	0.49
1:AA:1340:A:C2'	9:AI:141:TYR:CE2	2.95	0.49
5:AD:150:LEU:CG	5:AD:189:ASP:HA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:138:ILE:HG23	6:AE:138:ILE:O	2.11	0.49
7:AG:213:LYS:HD2	7:AG:214:ASP:OD1	2.13	0.49
8:AH:101:VAL:HG13	8:AH:101:VAL:O	2.13	0.49
9:AI:45:PHE:HD1	9:AI:77:VAL:CG2	2.20	0.49
10:AJ:78:THR:C	14:AN:39:ARG:CD	2.80	0.49
10:AJ:78:THR:C	14:AN:39:ARG:NE	2.67	0.49
15:AO:77:ASN:HB3	15:AO:85:GLU:HA	1.93	0.49
18:B3:10:U:O2'	18:B3:11:A:P	2.69	0.49
18:B3:124:C:H5	39:BT:88:LYS:CE	1.91	0.49
18:B3:199:A:C2'	18:B3:200:U:H5"	2.43	0.49
18:B3:1167:G:H1'	30:BK:110:ILE:CB	2.36	0.49
18:B3:1181:A:O2'	30:BK:109:ILE:HG12	2.13	0.49
18:B3:1214:G:O2'	18:B3:1215:A:H8	1.96	0.49
18:B3:1347:U:O3'	23:BD:241:ALA:HB3	2.13	0.49
18:B3:1674:C:P	39:BT:94:ILE:CD1	3.01	0.49
18:B3:1807:U:C2	18:B3:2883:A:H2'	2.48	0.49
18:B3:2052:U:OP2	33:BN:23:VAL:HG23	1.96	0.49
18:B3:2765:C:H2'	18:B3:2766:A:C8	2.48	0.49
18:B3:2842:G:H2'	18:B3:2843:A:H5'	1.95	0.49
19:B4:34:A:C3'	24:BE:185:PHE:CE1	2.96	0.49
20:BA:67:ILE:HD12	20:BA:144:LEU:HD21	1.92	0.49
21:BB:101:LEU:CD1	21:BB:105:SER:HB2	2.25	0.49
22:BC:81:PRO:CB	22:BC:82:PRO:HA	2.43	0.49
22:BC:85:VAL:CG1	22:BC:159:VAL:HG11	2.42	0.49
22:BC:109:LEU:CD2	22:BC:118:TYR:CD1	2.95	0.49
22:BC:327:ILE:HB	22:BC:328:PRO:CA	2.43	0.49
22:BC:332:LYS:O	22:BC:332:LYS:HG2	2.12	0.49
24:BE:75:LEU:HD23	24:BE:75:LEU:H	1.78	0.49
24:BE:140:ARG:HD2	24:BE:140:ARG:H	1.77	0.49
24:BE:185:PHE:HD1	24:BE:203:HIS:ND1	2.11	0.49
25:BF:142:THR:HG21	25:BF:236:ASN:CG	2.33	0.49
25:BF:147:VAL:HG23	25:BF:148:TYR:N	2.27	0.49
26:BG:122:GLN:NE2	26:BG:188:LEU:HB3	2.28	0.49
29:BJ:23:GLY:O	29:BJ:64:ILE:HD12	2.13	0.49
29:BJ:85:VAL:HG23	29:BJ:86:LYS:N	2.27	0.49
30:BK:107:ASP:O	30:BK:110:ILE:HB	2.12	0.49
31:BL:114:VAL:O	31:BL:114:VAL:HG13	2.12	0.49
32:BM:98:LEU:HG	32:BM:99:GLU:N	2.28	0.49
35:BP:57:HIS:NE2	35:BP:59:LYS:HG2	2.27	0.49
35:BP:59:LYS:NZ	35:BP:59:LYS:HB2	2.28	0.49
35:BP:62:THR:HA	35:BP:65:HIS:HE1	1.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:96:ARG:HE	35:BP:99:ARG:HH21	1.59	0.49
35:BP:100:VAL:O	35:BP:104:LEU:HD13	2.13	0.49
36:BQ:63:VAL:HG22	36:BQ:77:ASN:CB	2.42	0.49
40:BU:81:GLN:CG	40:BU:82:VAL:H	2.19	0.49
40:BU:111:LEU:HD13	40:BU:111:LEU:H	1.75	0.49
42:B0:19:ARG:NH1	42:B0:20:HIS:H	2.11	0.49
42:B0:101:SER:O	42:B0:102:ALA:HB2	2.12	0.49
46:BZ:28:LYS:O	46:BZ:29:ALA:HB2	2.12	0.49
1:AA:336:C:C5	1:AA:1434:A:C1'	2.96	0.49
1:AA:659:U:O2'	1:AA:660:G:H5'	2.12	0.49
1:AA:999:C:H2'	1:AA:1000:U:C6	2.48	0.49
1:AA:1148:U:C4'	9:AI:9:PHE:CZ	2.91	0.49
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.42	0.49
2:AT:202:VAL:CG1	2:AT:209:VAL:CG2	2.89	0.49
2:AT:748:ASN:HB3	18:B3:2508:C:C1'	2.32	0.49
6:AE:170:PRO:HG2	8:AH:96:ARG:HB3	1.95	0.49
8:AH:67:ARG:NH1	8:AH:67:ARG:HB3	2.28	0.49
9:AI:8:THR:OG1	9:AI:83:ALA:HA	2.13	0.49
9:AI:9:PHE:O	9:AI:83:ALA:HB2	2.13	0.49
9:AI:99:GLN:HE21	9:AI:115:LEU:HB2	1.78	0.49
10:AJ:70:THR:O	14:AN:38:CYS:C	2.50	0.49
16:AQ:100:GLU:OE1	16:AQ:100:GLU:HA	2.13	0.49
18:B3:35:U:C4'	23:BD:49:TYR:HA	2.43	0.49
18:B3:80:A:H5"	40:BU:74:TYR:CE2	2.48	0.49
18:B3:844:A:P	33:BN:133:GLY:HA2	2.52	0.49
18:B3:887:G:H2'	18:B3:888:U:C6	2.48	0.49
18:B3:948:G:O2'	36:BQ:100:LYS:HE2	2.10	0.49
18:B3:1287:A:O3'	25:BF:109:ARG:NH2	2.46	0.49
18:B3:1459:A:C5'	21:BB:20:ARG:CD	2.91	0.49
18:B3:1946:C:H2'	18:B3:1971:G:C8	2.47	0.49
18:B3:1978:A:O2'	18:B3:1979:G:OP1	2.24	0.49
18:B3:2011:A:H4'	18:B3:2012:U:O5'	2.13	0.49
18:B3:2334:C:O4'	29:BJ:114:LYS:N	2.44	0.49
18:B3:2388:C:O2'	36:BQ:54:HIS:CD2	2.57	0.49
18:B3:2396:C:C2'	41:BV:46:LYS:CE	2.89	0.49
18:B3:2720:C:P	38:BS:33:ASN:ND2	2.85	0.49
18:B3:2912:C:O2'	18:B3:2913:A:H5'	2.12	0.49
19:B4:34:A:C3'	24:BE:185:PHE:HE1	2.23	0.49
20:BA:66:CYS:SG	20:BA:107:TYR:CG	3.06	0.49
22:BC:15:PHE:CD2	22:BC:18:ARG:CG	2.95	0.49
22:BC:34:ASP:CG	22:BC:183:ASN:HB3	2.32	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:109:LEU:HD21	22:BC:118:TYR:CD1	2.47	0.49
23:BD:22:PRO:HB2	23:BD:25:PHE:HD2	1.78	0.49
23:BD:174:HIS:HA	23:BD:177:LEU:HD13	1.95	0.49
24:BE:43:LYS:HG2	24:BE:44:TYR:CD1	2.40	0.49
24:BE:207:TYR:CD1	24:BE:208:MET:N	2.80	0.49
24:BE:218:ARG:HG3	24:BE:221:GLU:HG2	1.94	0.49
25:BF:97:LYS:CB	25:BF:98:PRO:HD3	2.37	0.49
25:BF:117:LYS:CE	25:BF:118:VAL:HG12	2.42	0.49
25:BF:149:LYS:HZ1	25:BF:206:LEU:CD1	2.26	0.49
25:BF:174:LYS:HG2	25:BF:200:PHE:CE1	2.35	0.49
25:BF:195:LYS:O	25:BF:199:ASN:HA	2.13	0.49
25:BF:206:LEU:HG	25:BF:207:SER:N	2.28	0.49
27:BH:23:ARG:HD2	27:BH:23:ARG:C	2.34	0.49
27:BH:105:GLU:OE1	27:BH:106:LYS:HB2	2.13	0.49
30:BK:93:LYS:O	30:BK:93:LYS:HG3	2.12	0.49
31:BL:52:TYR:HB2	31:BL:132:ILE:HD13	1.94	0.49
31:BL:141:ILE:CG1	31:BL:147:TYR:CZ	2.94	0.49
32:BM:31:LYS:NZ	32:BM:100:ARG:HD3	2.28	0.49
32:BM:94:GLY:O	32:BM:98:LEU:HB2	2.13	0.49
35:BP:31:ILE:HG21	35:BP:49:ILE:CD1	2.13	0.49
36:BQ:18:ASP:H	36:BQ:20:ARG:NH2	2.10	0.49
39:BT:83:PHE:O	39:BT:84:GLN:HB3	2.13	0.49
40:BU:16:ARG:HH12	40:BU:17:LYS:HB3	1.76	0.49
40:BU:81:GLN:NE2	40:BU:96:PRO:HG2	2.28	0.49
40:BU:100:HIS:HD2	40:BU:104:LEU:HD22	1.71	0.49
40:BU:101:PRO:HB3	40:BU:104:LEU:CD2	2.42	0.49
40:BU:122:LYS:H	40:BU:122:LYS:CD	2.25	0.49
44:BX:9:LEU:O	44:BX:10:ARG:HB3	2.11	0.49
44:BX:22:VAL:HA	44:BX:25:LYS:HB2	1.94	0.49
46:BZ:15:THR:HG21	46:BZ:76:CYS:SG	2.53	0.49
1:AA:21:G:H5'	1:AA:884:U:H4'	1.95	0.48
1:AA:63:C:O4'	1:AA:385:C:H1'	2.13	0.48
1:AA:123:C:O2'	1:AA:289:G:C1'	2.61	0.48
1:AA:217:C:O2'	1:AA:218:C:H5'	2.13	0.48
1:AA:218:C:H2'	1:AA:219:C:C6	2.48	0.48
1:AA:254:G:HO2'	1:AA:255:G:H5'	1.76	0.48
1:AA:1504:G:OP1	1:AA:1507:A:C8	2.66	0.48
2:AT:110:ASP:O	2:AT:111:PHE:HB2	2.13	0.48
3:AB:89:ALA:HB3	3:AB:96:PRO:HG3	1.94	0.48
5:AD:103:ASP:O	5:AD:104:PHE:HB2	2.13	0.48
5:AD:137:GLY:O	5:AD:138:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:80:MET:O	6:AE:80:MET:HE1	2.13	0.48
6:AE:135:VAL:HG22	6:AE:136:ILE:N	2.28	0.48
10:AJ:97:VAL:C	10:AJ:99:ILE:H	2.17	0.48
11:AK:26:PHE:CD1	11:AK:41:VAL:HG12	2.48	0.48
11:AK:47:VAL:CB	11:AK:52:ASP:CB	2.91	0.48
13:AM:42:TYR:CZ	13:AM:97:ASP:HB3	2.39	0.48
14:AN:30:VAL:HG22	14:AN:31:ARG:N	2.26	0.48
18:B3:166:A:N6	41:BV:28:PRO:HB2	2.28	0.48
18:B3:449:A:OP2	18:B3:1306:U:O4'	2.31	0.48
18:B3:449:A:OP1	23:BD:46:ARG:N	2.43	0.48
18:B3:643:A:OP2	18:B3:1354:G:H3'	2.13	0.48
18:B3:905:C:H5'	41:BV:11:ARG:NH2	2.24	0.48
18:B3:1072:G:O2'	18:B3:1073:A:C8	2.66	0.48
18:B3:1206:C:H2'	18:B3:1207:A:O5'	2.04	0.48
18:B3:1358:A:C1'	23:BD:92:MET:HG3	2.41	0.48
18:B3:1361:C:C4	23:BD:89:PHE:HA	2.44	0.48
18:B3:1461:U:H2'	18:B3:1462:C:C6	2.48	0.48
18:B3:1673:U:C5'	39:BT:110:ASN:O	2.61	0.48
18:B3:1708:C:O4'	35:BP:82:GLY:HA3	2.12	0.48
18:B3:2216:A:H4'	18:B3:2217:U:OP1	2.13	0.48
18:B3:2300:A:H4'	18:B3:2301:A:O5'	2.12	0.48
18:B3:2381:C:H2'	18:B3:2382:A:C8	2.48	0.48
18:B3:2460:A:P	46:BZ:66:LYS:HZ1	2.34	0.48
18:B3:2726:U:O2	18:B3:2749:U:O5'	2.30	0.48
18:B3:2821:C:OP1	22:BC:141:ALA:HB2	2.13	0.48
18:B3:2837:U:H4'	22:BC:332:LYS:HD2	1.95	0.48
18:B3:2898:G:P	22:BC:312:HIS:O	2.71	0.48
19:B4:34:A:C2	24:BE:185:PHE:HD1	2.29	0.48
21:BB:18:HIS:CE1	21:BB:189:ARG:HG3	2.48	0.48
21:BB:122:ARG:HG3	21:BB:123:GLY:N	2.27	0.48
21:BB:149:LEU:CG	21:BB:153:ALA:HB3	2.42	0.48
21:BB:157:ILE:CD1	21:BB:161:ALA:HB2	2.42	0.48
22:BC:56:VAL:CG1	22:BC:69:ARG:HG2	2.42	0.48
22:BC:194:ALA:O	22:BC:195:ARG:HB2	2.13	0.48
22:BC:279:HIS:HE1	22:BC:327:ILE:HG12	1.76	0.48
22:BC:286:LYS:HA	22:BC:319:ASP:HA	1.95	0.48
22:BC:316:ILE:CG2	22:BC:320:PHE:CE1	2.94	0.48
23:BD:57:HIS:C	23:BD:83:ARG:HD3	2.33	0.48
23:BD:151:VAL:CG2	23:BD:248:ILE:HG12	2.42	0.48
23:BD:154:ASP:O	23:BD:155:LEU:HB3	2.13	0.48
23:BD:180:VAL:HG11	23:BD:223:GLY:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:214:ILE:HD13	23:BD:214:ILE:N	2.18	0.48
23:BD:218:LEU:O	23:BD:224:VAL:HG11	2.13	0.48
23:BD:228:ASN:C	23:BD:232:LEU:HD22	2.33	0.48
24:BE:187:THR:OG1	24:BE:200:PHE:HD2	1.96	0.48
25:BF:114:THR:HB	25:BF:202:TRP:CD1	2.49	0.48
25:BF:152:PHE:HB2	25:BF:200:PHE:HB2	1.91	0.48
25:BF:168:ILE:HG12	25:BF:177:ILE:H	1.76	0.48
25:BF:221:HIS:HA	25:BF:228:PHE:CG	2.46	0.48
27:BH:8:GLN:HA	27:BH:8:GLN:NE2	2.28	0.48
27:BH:160:ASP:HA	27:BH:163:GLN:HG2	1.95	0.48
27:BH:170:LYS:CE	27:BH:175:PHE:CE1	2.94	0.48
29:BJ:96:SER:HB2	29:BJ:101:PHE:HE2	1.78	0.48
34:BO:32:LEU:HD13	34:BO:32:LEU:C	2.33	0.48
34:BO:83:VAL:CG2	34:BO:103:ALA:HB1	2.43	0.48
36:BQ:42:ILE:HD12	36:BQ:95:HIS:ND1	2.28	0.48
37:BR:83:LYS:HA	37:BR:83:LYS:HZ3	1.79	0.48
39:BT:61:VAL:O	39:BT:85:VAL:HG12	2.12	0.48
41:BV:76:LYS:HZ3	41:BV:76:LYS:N	2.10	0.48
41:BV:110:LYS:NZ	41:BV:127:ARG:HH21	2.11	0.48
43:BW:26:LYS:HG3	43:BW:29:PRO:HG2	1.95	0.48
1:AA:190(D):U:O2	16:AQ:111:SER:CA	2.61	0.48
1:AA:403:C:C5'	1:AA:620:C:O2	2.60	0.48
1:AA:958:A:C2	17:AS:102:PHE:CG	2.75	0.48
1:AA:1057:G:C2'	1:AA:1058:G:H5'	2.44	0.48
1:AA:1181:G:H4'	1:AA:1184:G:H5'	1.95	0.48
1:AA:1223:C:C5'	17:AS:100:LYS:NZ	2.76	0.48
1:AA:1296:C:O2'	13:AM:54:LEU:CA	2.59	0.48
1:AA:1301:U:H5"	13:AM:30:TYR:HA	1.86	0.48
1:AA:1318:A:H2	17:AS:82:ASN:CB	1.89	0.48
1:AA:1377:A:N6	7:AG:76:TYR:HD2	2.11	0.48
2:AT:386:VAL:HG11	2:AT:437:MET:CE	2.43	0.48
2:AT:465:LYS:HG2	2:AT:515:ASP:N	2.28	0.48
3:AB:114:PHE:HD2	3:AB:115:LYS:O	1.96	0.48
5:AD:53:ARG:HG2	5:AD:54:ARG:N	2.25	0.48
5:AD:69:ARG:HB2	5:AD:79:ARG:HD3	1.95	0.48
6:AE:153:LEU:HD22	8:AH:98:PHE:HD1	1.78	0.48
8:AH:25:LEU:HD22	8:AH:52:ILE:HD13	1.95	0.48
8:AH:26:ILE:CD1	8:AH:37:LEU:HD21	2.42	0.48
11:AK:47:VAL:HG12	11:AK:52:ASP:CA	2.43	0.48
11:AK:49:ALA:O	11:AK:53:GLU:HG3	2.13	0.48
11:AK:88:THR:CG2	11:AK:94:GLY:HA3	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:142:LYS:CG	12:AL:143:PRO:HD3	2.43	0.48
18:B3:116:G:H5'	18:B3:129:A:H2'	1.94	0.48
18:B3:629:A:H2'	18:B3:630:A:O4'	2.13	0.48
18:B3:1164:U:C5	30:BK:49:ALA:O	2.64	0.48
18:B3:1226:G:C5'	18:B3:1246:A:H61	2.23	0.48
18:B3:1360:C:C1'	23:BD:88:ALA:HB3	2.43	0.48
18:B3:1676:G:O5'	39:BT:113:VAL:HG23	2.13	0.48
18:B3:1745:G:H5"	37:BR:22:ILE:CG1	2.40	0.48
18:B3:1801:A:O5'	35:BP:88:LEU:HD11	2.12	0.48
18:B3:1805:G:H22	18:B3:2882:G:C2'	2.22	0.48
18:B3:2220:C:H4'	20:BA:211:GLY:C	2.33	0.48
18:B3:2329:C:OP1	19:B4:46:C:H4'	2.14	0.48
18:B3:2334:C:H5"	29:BJ:111:LEU:CA	2.43	0.48
18:B3:2387:U:O3'	36:BQ:88:ARG:CA	2.59	0.48
18:B3:2457:U:H4'	46:BZ:83:THR:HA	1.94	0.48
18:B3:2466:G:H3'	41:BV:38:HIS:CD2	2.48	0.48
18:B3:2468:A:H2	46:BZ:54:LYS:CB	1.73	0.48
18:B3:2692:G:H8	18:B3:2693:U:H5	1.61	0.48
18:B3:2713:G:OP1	37:BR:45:ARG:N	2.46	0.48
18:B3:2737:C:P	35:BP:61:ARG:HB2	2.53	0.48
18:B3:2757:A:OP1	22:BC:364:PHE:CA	2.53	0.48
19:B4:11:A:C8	24:BE:17:GLN:HA	2.46	0.48
19:B4:102:G:O2'	19:B4:103:A:H5'	2.13	0.48
22:BC:76:THR:H	22:BC:326:CYS:HB3	1.78	0.48
23:BD:181:LEU:HD22	23:BD:183:SER:OG	2.13	0.48
24:BE:208:MET:HG2	24:BE:211:LEU:N	2.17	0.48
24:BE:222:LEU:HD13	24:BE:222:LEU:O	2.13	0.48
26:BG:124:ALA:O	26:BG:125:SER:HB2	2.13	0.48
26:BG:162:VAL:O	26:BG:162:VAL:HG22	2.12	0.48
26:BG:214:VAL:HG23	26:BG:215:SER:N	2.28	0.48
27:BH:128:VAL:HG12	27:BH:129:ARG:N	2.28	0.48
27:BH:129:ARG:HG3	27:BH:153:ASP:C	2.34	0.48
28:BI:61:SER:O	28:BI:64:ALA:HB3	2.12	0.48
28:BI:66:GLU:N	28:BI:69:ARG:HG2	2.28	0.48
29:BJ:16:LEU:N	29:BJ:70:VAL:HG21	2.28	0.48
30:BK:20:GLY:HA3	30:BK:54:LYS:CE	2.39	0.48
31:BL:30:ARG:NH1	31:BL:31:GLN:H	2.11	0.48
31:BL:69:ASN:HB2	31:BL:93:TYR:CE2	2.48	0.48
31:BL:82:LYS:CA	31:BL:82:LYS:HE2	2.41	0.48
33:BN:88:LYS:CD	33:BN:89:PHE:CD2	2.95	0.48
35:BP:22:TRP:CA	35:BP:51:LYS:HD2	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BQ:7:TYR:O	36:BQ:55:LYS:HE3	2.14	0.48
37:BR:11:PHE:HE2	37:BR:121:GLU:HG3	1.75	0.48
38:BS:44:LYS:HA	38:BS:44:LYS:CE	2.36	0.48
41:BV:63:GLN:H	41:BV:66:HIS:HB2	1.77	0.48
42:B0:18:LYS:C	42:B0:32:TRP:HD1	2.17	0.48
43:BW:61:ARG:CG	43:BW:62:GLY:H	2.25	0.48
43:BW:73:ARG:NH1	43:BW:73:ARG:HA	2.28	0.48
45:BY:21:CYS:HB2	45:BY:38:TYR:OH	2.13	0.48
46:BZ:24:VAL:HG12	46:BZ:71:LEU:CD1	2.43	0.48
1:AA:39:G:N1	5:AD:20:GLU:OE1	2.46	0.48
1:AA:292:G:H1'	1:AA:608:A:C5	1.68	0.48
1:AA:359:U:H5"	2:AT:392:GLY:N	2.28	0.48
1:AA:551:U:H3	12:AL:47:SER:HG	1.52	0.48
1:AA:647:C:H2'	1:AA:648:A:H8	1.77	0.48
1:AA:1106:G:C5'	4:AC:155:PHE:CE2	2.85	0.48
2:AT:463:LEU:CA	2:AT:513:LYS:CE	2.70	0.48
4:AC:20:LEU:HD11	4:AC:83:ILE:HD13	1.95	0.48
4:AC:45:THR:OG1	4:AC:83:ILE:HG12	2.12	0.48
4:AC:131:LYS:HZ2	4:AC:191:PRO:HD2	1.78	0.48
5:AD:91:LYS:CA	6:AE:174:GLY:CA	2.72	0.48
5:AD:140:ILE:O	5:AD:140:ILE:HG23	2.13	0.48
6:AE:79:VAL:CG2	6:AE:124:ILE:HD11	2.35	0.48
8:AH:97:GLN:HB2	8:AH:127:PHE:HZ	1.75	0.48
8:AH:118:LYS:O	8:AH:119:HIS:HB2	2.13	0.48
10:AJ:56:VAL:HG12	10:AJ:90:TYR:HB2	1.91	0.48
11:AK:12:VAL:CG2	11:AK:76:THR:HB	2.43	0.48
15:AO:72:ARG:O	15:AO:75:LYS:HG3	2.13	0.48
18:B3:67:A:H1'	39:BT:60:LYS:CE	2.44	0.48
18:B3:166:A:N6	41:BV:28:PRO:C	2.65	0.48
18:B3:220:C:O2	41:BV:54:LYS:CD	2.61	0.48
18:B3:291:C:H2'	18:B3:292:G:O4'	2.12	0.48
18:B3:438:C:O2'	18:B3:439:A:OP1	2.30	0.48
18:B3:517:U:O2'	18:B3:1319:G:C2	2.66	0.48
18:B3:1117:A:H8	18:B3:1226:G:C8	1.88	0.48
18:B3:1127:C:OP1	18:B3:1128:U:H5	1.96	0.48
18:B3:1209:C:O2'	18:B3:1210:G:H5'	2.13	0.48
18:B3:1568:G:O2'	18:B3:1569:U:H5'	2.12	0.48
18:B3:1801:A:P	35:BP:88:LEU:HD11	2.52	0.48
18:B3:1861:C:H1'	21:BB:9:LYS:CG	2.43	0.48
18:B3:2214:A:N3	20:BA:106:LYS:HE3	2.28	0.48
18:B3:2415:A:O4'	24:BE:39:GLN:HG2	2.08	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2430:A:N6	46:BZ:59:LYS:HE2	2.24	0.48
18:B3:2596:A:O2'	37:BR:72:LYS:NZ	2.46	0.48
19:B4:7:G:OP2	24:BE:29:ASP:O	2.32	0.48
20:BA:21:ASN:O	20:BA:22:GLU:HB2	2.11	0.48
20:BA:65:ILE:CD1	20:BA:151:VAL:HG23	2.43	0.48
20:BA:70:ASP:OD1	20:BA:87:VAL:HB	2.12	0.48
20:BA:147:LYS:O	20:BA:151:VAL:HG22	2.13	0.48
21:BB:44:VAL:O	21:BB:44:VAL:HG12	2.12	0.48
22:BC:32:PRO:HG3	22:BC:43:THR:CG2	2.43	0.48
22:BC:121:TRP:CG	22:BC:123:LYS:HG2	2.48	0.48
22:BC:166:ARG:HD2	22:BC:167:LYS:N	2.19	0.48
23:BD:185:LYS:NZ	23:BD:185:LYS:HA	2.28	0.48
25:BF:177:ILE:HD12	25:BF:178:LEU:N	2.27	0.48
26:BG:125:SER:HA	26:BG:128:PRO:HB2	1.96	0.48
26:BG:135:LEU:C	26:BG:138:VAL:HG12	2.34	0.48
26:BG:159:ILE:HG22	26:BG:161:LEU:HG	1.93	0.48
27:BH:75:VAL:CB	27:BH:78:MET:HE2	2.42	0.48
28:BI:79:VAL:HG21	28:BI:84:ALA:HB3	1.94	0.48
28:BI:94:PHE:N	28:BI:94:PHE:CD1	2.81	0.48
29:BJ:31:ARG:C	29:BJ:33:SER:H	2.16	0.48
31:BL:18:LEU:HD12	31:BL:21:LEU:CD2	2.28	0.48
31:BL:125:THR:HB	31:BL:126:TYR:HD1	1.78	0.48
33:BN:17:ARG:HB3	33:BN:145:ILE:HG13	1.95	0.48
34:BO:95:GLU:HG3	34:BO:97:PRO:CG	2.42	0.48
34:BO:126:GLN:NE2	34:BO:126:GLN:HA	2.25	0.48
36:BQ:18:ASP:H	36:BQ:20:ARG:HH22	1.61	0.48
37:BR:57:MET:HE2	37:BR:126:TRP:HH2	1.77	0.48
42:B0:16:LYS:O	42:B0:16:LYS:HG2	2.13	0.48
42:B0:82:LEU:HB2	42:B0:85:LEU:CD2	2.43	0.48
43:BW:16:HIS:CG	43:BW:30:ARG:HG3	2.48	0.48
1:AA:25:C:C5'	12:AL:109:ARG:NE	2.77	0.48
1:AA:33:A:H5"	1:AA:365:U:C5'	2.41	0.48
1:AA:123:C:O3'	1:AA:312:C:H1'	2.14	0.48
1:AA:143:A:H4'	1:AA:199:G:C3'	2.43	0.48
1:AA:551:U:HO2'	12:AL:107:PHE:HD2	1.61	0.48
1:AA:555:C:H2'	1:AA:556:C:C6	2.48	0.48
1:AA:624:C:O2'	1:AA:625:G:H5'	2.13	0.48
1:AA:1262:C:H2'	1:AA:1263:C:H6	1.78	0.48
1:AA:1419:G:C2	18:B3:1990:C:H5'	2.30	0.48
1:AA:1483:A:C3'	18:B3:2001:G:N3	2.75	0.48
1:AA:1501:C:H5'	1:AA:1508:G:O2'	2.07	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:24:LEU:HG	5:AD:28:LEU:HD21	1.95	0.48
5:AD:59:LEU:HG	5:AD:63:ASP:OD2	2.13	0.48
5:AD:86:LEU:HD12	5:AD:96:VAL:CG1	2.43	0.48
5:AD:108:ARG:HH21	5:AD:144:PRO:HB2	1.77	0.48
5:AD:110:GLN:HE22	5:AD:126:ARG:NH2	2.11	0.48
10:AJ:69:LYS:HB3	14:AN:39:ARG:NE	2.22	0.48
10:AJ:69:LYS:HD3	14:AN:43:ARG:C	2.11	0.48
10:AJ:97:VAL:HG22	10:AJ:98:GLN:OE1	2.13	0.48
11:AK:15:VAL:HG12	11:AK:16:ALA:N	2.28	0.48
18:B3:492:C:C4'	33:BN:103:ALA:HB2	2.44	0.48
18:B3:635:A:P	23:BD:91:ASN:HD21	2.36	0.48
18:B3:898:G:O5'	41:BV:25:ARG:HD2	2.13	0.48
18:B3:949:U:C4'	36:BQ:100:LYS:HB2	2.38	0.48
18:B3:958:G:H2'	18:B3:959:C:C6	2.49	0.48
18:B3:1277:C:C5'	34:BO:34:THR:CG2	2.90	0.48
18:B3:1370:G:C5'	33:BN:63:ASN:H	2.11	0.48
18:B3:1401:G:C5'	43:BW:59:TRP:HB3	2.29	0.48
18:B3:1652:C:H6	21:BB:173:ARG:NH1	1.99	0.48
18:B3:1733:A:H4'	22:BC:226:GLU:CB	2.28	0.48
18:B3:1733:A:O4'	22:BC:225:PHE:HD1	1.70	0.48
18:B3:2333:G:N2	29:BJ:114:LYS:N	2.52	0.48
18:B3:2720:C:O2'	38:BS:19:THR:HG23	2.13	0.48
18:B3:2819:C:C1'	22:BC:99:ARG:O	2.57	0.48
18:B3:2903:C:O2'	18:B3:2904:U:H5'	2.12	0.48
21:BB:204:ASN:HA	21:BB:211:GLY:HA2	1.96	0.48
22:BC:46:LEU:HD23	22:BC:336:THR:CG2	2.44	0.48
22:BC:101:LEU:CD1	22:BC:145:ARG:HD3	2.43	0.48
23:BD:64:TRP:NE1	23:BD:70:VAL:HG21	2.28	0.48
23:BD:190:LYS:HD2	23:BD:193:TYR:CZ	2.49	0.48
24:BE:41:LYS:HB3	24:BE:49:TYR:CD2	2.48	0.48
24:BE:46:THR:O	24:BE:46:THR:HG23	2.14	0.48
24:BE:80:SER:O	24:BE:81:HIS:HB2	2.14	0.48
24:BE:112:ARG:HG3	24:BE:113:LEU:H	1.78	0.48
24:BE:207:TYR:CE2	24:BE:208:MET:SD	3.06	0.48
27:BH:123:ILE:HD12	27:BH:123:ILE:N	2.29	0.48
28:BI:105:CYS:CB	28:BI:115:MET:HE1	2.43	0.48
31:BL:67:ARG:HB2	31:BL:67:ARG:NH1	2.20	0.48
31:BL:168:LYS:HD2	31:BL:168:LYS:C	2.34	0.48
31:BL:185:GLY:HA2	31:BL:188:LYS:HE3	1.94	0.48
32:BM:26:LEU:HD21	32:BM:98:LEU:N	2.28	0.48
32:BM:45:GLU:HG3	32:BM:133:LYS:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:84:ARG:HD3	32:BM:98:LEU:CD1	2.44	0.48
32:BM:90:LYS:H	32:BM:90:LYS:CD	2.26	0.48
32:BM:107:ILE:CG1	32:BM:108:PRO:HD2	2.44	0.48
36:BQ:43:LYS:CE	36:BQ:96:ILE:HD12	2.43	0.48
36:BQ:72:VAL:HG13	36:BQ:72:VAL:O	2.13	0.48
37:BR:86:ARG:HB2	37:BR:87:ARG:NH2	2.29	0.48
38:BS:23:ARG:CG	38:BS:28:ILE:HG13	2.44	0.48
38:BS:23:ARG:HG3	38:BS:28:ILE:HB	1.94	0.48
39:BT:114:ARG:HD2	39:BT:114:ARG:HA	1.68	0.48
47:B9:32:GLN:CG	47:B9:69:THR:H	2.21	0.48
1:AA:190(C):C:H41	16:AQ:112:PRO:CG	2.26	0.48
1:AA:190(D):U:C2	16:AQ:111:SER:HB2	2.45	0.48
1:AA:552:U:C2'	12:AL:47:SER:C	2.50	0.48
1:AA:743:U:H2'	1:AA:744:C:H6	1.78	0.48
1:AA:921:U:H5'	1:AA:1081:G:C5'	2.44	0.48
1:AA:1126:U:H1'	1:AA:1280:A:H62	0.34	0.48
1:AA:1302:U:O4'	13:AM:44:ASN:HA	2.13	0.48
1:AA:1302:U:C5	13:AM:47:CYS:CB	2.96	0.48
1:AA:1302:U:OP2	13:AM:43:SER:O	2.30	0.48
1:AA:1314:C:N4	17:AS:48:GLY:C	2.66	0.48
1:AA:1320:C:C6	17:AS:117:GLY:N	2.71	0.48
2:AT:216:HIS:HB3	2:AT:218:TRP:CD1	2.49	0.48
4:AC:101:ALA:HA	4:AC:185:VAL:CG2	2.44	0.48
6:AE:127:GLY:HA2	6:AE:130:ILE:HG22	1.94	0.48
7:AG:86:CYS:CB	7:AG:87:PRO:HD3	2.32	0.48
9:AI:47:VAL:HG22	9:AI:77:VAL:HG13	1.95	0.48
10:AJ:23:ARG:HG2	10:AJ:92:ASP:OD1	2.14	0.48
17:AS:56:PHE:CD1	17:AS:80:MET:SD	3.06	0.48
17:AS:81:ARG:CB	17:AS:96:ILE:HD11	2.43	0.48
17:AS:94:VAL:HG13	17:AS:94:VAL:O	2.12	0.48
18:B3:73:C:OP1	44:BX:5:LYS:N	2.45	0.48
18:B3:101:C:O2'	18:B3:102:A:H5'	2.13	0.48
18:B3:111:C:C3'	18:B3:119:A:H62	2.26	0.48
18:B3:621:C:OP2	42:B0:38:ILE:CG2	2.59	0.48
18:B3:751:U:H5"	23:BD:36:THR:HG21	1.86	0.48
18:B3:1000:C:H2'	18:B3:1001:U:O4'	2.13	0.48
18:B3:1120:U:H5"	18:B3:1120:U:C6	2.48	0.48
18:B3:1511:U:O2'	18:B3:1512:G:H5'	2.13	0.48
18:B3:1624:A:O2'	18:B3:1625:U:P	2.71	0.48
18:B3:1807:U:O5'	18:B3:2884:G:C2'	2.62	0.48
18:B3:2326:U:H2'	18:B3:2327:A:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2336:G:O5'	29:BJ:103:PHE:HE2	1.95	0.48
18:B3:2430:A:H61	46:BZ:59:LYS:CE	2.24	0.48
18:B3:2886:C:O2'	18:B3:2887:G:H5'	2.14	0.48
20:BA:155:ILE:CG2	20:BA:167:VAL:HG13	2.39	0.48
20:BA:157:PHE:CZ	20:BA:165:LEU:CD2	2.94	0.48
21:BB:144:LYS:HD2	21:BB:144:LYS:N	2.29	0.48
21:BB:240:ARG:NH1	21:BB:241:ARG:HH22	2.11	0.48
22:BC:163:THR:HG23	22:BC:177:LEU:HD21	1.96	0.48
22:BC:210:GLN:OE1	22:BC:352:GLU:HA	2.13	0.48
22:BC:287:GLY:HA3	22:BC:317:LYS:C	2.34	0.48
24:BE:12:TYR:CD2	24:BE:13:SER:N	2.81	0.48
24:BE:42:ALA:N	24:BE:49:TYR:CD2	2.81	0.48
24:BE:55:PHE:CE2	24:BE:60:ILE:HD12	2.49	0.48
24:BE:75:LEU:CD1	24:BE:109:THR:HG23	2.41	0.48
24:BE:151:GLN:CD	24:BE:159:VAL:HG21	2.34	0.48
24:BE:197:SER:HB3	24:BE:223:PHE:CD1	2.49	0.48
25:BF:115:PHE:CB	25:BF:194:PHE:CE2	2.95	0.48
25:BF:146:LEU:HD13	25:BF:239:VAL:HG22	1.94	0.48
28:BI:101:LYS:HB3	28:BI:118:ALA:HB1	1.95	0.48
30:BK:80:LEU:HD13	30:BK:112:ILE:HG23	1.95	0.48
31:BL:53:LYS:HD2	31:BL:53:LYS:H	1.77	0.48
31:BL:124:SER:O	31:BL:125:THR:HG23	2.14	0.48
32:BM:91:THR:O	32:BM:92:ALA:HB3	2.13	0.48
33:BN:26:LYS:O	33:BN:27:ASN:HB2	2.14	0.48
33:BN:124:GLN:NE2	33:BN:124:GLN:HA	2.29	0.48
34:BO:38:ARG:HA	34:BO:38:ARG:CZ	2.42	0.48
35:BP:86:ALA:C	35:BP:87:ARG:HG3	2.33	0.48
40:BU:57:LEU:HD11	40:BU:105:VAL:HG21	1.93	0.48
41:BV:90:LEU:HD13	41:BV:90:LEU:O	2.13	0.48
41:BV:108:TYR:CD1	41:BV:108:TYR:N	2.81	0.48
41:BV:118:PRO:C	41:BV:120:VAL:H	2.16	0.48
42:B0:64:LYS:HE3	42:B0:65:PHE:HE1	1.71	0.48
43:BW:28:ALA:CB	43:BW:59:TRP:CG	2.96	0.48
45:BY:31:LYS:H	45:BY:31:LYS:HZ2	1.60	0.48
1:AA:16:A:O2'	1:AA:17:U:H5'	2.14	0.48
1:AA:293:G:O2'	1:AA:609:A:C2	2.42	0.48
1:AA:552:U:H5'	12:AL:105:ALA:HB1	1.89	0.48
1:AA:780:A:C2	1:AA:801:U:C5	3.02	0.48
1:AA:792:A:H4'	1:AA:793:U:C5'	2.40	0.48
1:AA:919:A:H4'	1:AA:1079:G:N1	2.25	0.48
1:AA:1298:C:H3'	13:AM:57:ARG:HH21	1.72	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1341:U:C6	9:AI:141:TYR:HE1	2.27	0.48
3:AB:27:ASN:O	3:AB:148:LEU:HD23	2.13	0.48
3:AB:122:VAL:HG21	3:AB:128:ASP:CB	2.44	0.48
4:AC:136:VAL:O	4:AC:183:ILE:HD12	2.14	0.48
5:AD:82:ARG:O	5:AD:86:LEU:HD23	2.14	0.48
6:AE:115:LYS:HB3	6:AE:126:ALA:HB3	1.96	0.48
6:AE:216:ALA:N	8:AH:129:TYR:OH	2.41	0.48
8:AH:100:TYR:HA	8:AH:112:HIS:CD2	2.49	0.48
9:AI:92:HIS:HB2	9:AI:95:TYR:CD2	2.48	0.48
9:AI:97:ASP:HA	9:AI:102:ASN:HB3	1.94	0.48
17:AS:109:PRO:HA	17:AS:112:LEU:HD11	1.92	0.48
18:B3:72:C:P	44:BX:49:LYS:HE2	2.53	0.48
18:B3:322:G:O2'	18:B3:323:C:H5'	2.14	0.48
18:B3:352:A:H2'	18:B3:353:G:C8	2.49	0.48
18:B3:487:G:P	40:BU:90:VAL:HB	2.48	0.48
18:B3:508:A:H2'	18:B3:509:A:H5"	1.95	0.48
18:B3:730:G:H5'	41:BV:132:LEU:CD1	2.43	0.48
18:B3:1140:C:O2'	18:B3:1141:U:H5'	2.14	0.48
18:B3:1154:A:H2'	18:B3:1156:C:C1'	2.25	0.48
18:B3:1597:A:C5'	35:BP:95:ILE:HG21	2.44	0.48
18:B3:1806:G:H2'	18:B3:2884:G:H1'	1.94	0.48
18:B3:1885:A:C2	47:B9:17:TYR:HD1	2.32	0.48
18:B3:2073:G:OP2	18:B3:2490:A:C8	2.62	0.48
18:B3:2242:U:O2'	18:B3:2243:C:C6	2.63	0.48
18:B3:2336:G:OP1	29:BJ:103:PHE:HE2	1.96	0.48
18:B3:2338:G:O5'	29:BJ:126:PHE:HB3	2.13	0.48
18:B3:2353:A:H4'	18:B3:2354:A:O5'	2.14	0.48
18:B3:2388:C:OP1	36:BQ:88:ARG:CD	2.61	0.48
18:B3:2415:A:H2'	18:B3:2416:G:H5'	1.95	0.48
18:B3:2912:C:H1'	22:BC:126:LYS:HB2	1.11	0.48
19:B4:14:G:C2	24:BE:12:TYR:CA	2.76	0.48
19:B4:117:G:O2'	24:BE:69:ILE:CB	2.61	0.48
20:BA:69:GLY:HA2	20:BA:116:LEU:CD1	2.44	0.48
20:BA:151:VAL:HA	20:BA:158:GLN:CG	2.43	0.48
21:BB:42:GLY:HA2	21:BB:62:PHE:O	2.13	0.48
21:BB:45:LYS:O	21:BB:46:GLN:HG2	2.14	0.48
21:BB:72:GLU:HG3	21:BB:72:GLU:O	2.14	0.48
21:BB:73:GLU:HG3	21:BB:73:GLU:O	2.13	0.48
21:BB:98:GLY:H	21:BB:165:ILE:HG21	1.77	0.48
21:BB:113:SER:HB2	21:BB:164:VAL:HG21	1.96	0.48
21:BB:171:GLY:N	47:B9:66:GLY:C	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:203:MET:O	21:BB:204:ASN:HB3	2.13	0.48
21:BB:232:GLN:C	21:BB:233:LYS:HG3	2.34	0.48
22:BC:16:LEU:HA	22:BC:17:PRO:C	2.33	0.48
22:BC:87:GLY:CA	22:BC:104:VAL:HG21	2.42	0.48
22:BC:112:GLU:OE1	22:BC:113:VAL:HG23	2.12	0.48
23:BD:177:LEU:HA	23:BD:180:VAL:CG2	2.43	0.48
25:BF:142:THR:HG22	25:BF:142:THR:O	2.14	0.48
26:BG:113:ALA:CB	26:BG:119:LYS:HB3	2.32	0.48
26:BG:203:ARG:HG2	26:BG:203:ARG:O	2.14	0.48
27:BH:41:ILE:HG13	32:BM:125:VAL:HG22	1.95	0.48
27:BH:92:TYR:CB	27:BH:179:ILE:HG22	2.42	0.48
27:BH:125:ASN:O	27:BH:126:VAL:HG13	2.13	0.48
28:BI:51:HIS:C	28:BI:52:LEU:HD22	2.34	0.48
28:BI:59:GLN:HG2	28:BI:59:GLN:O	2.12	0.48
29:BJ:90:LEU:O	29:BJ:90:LEU:HD23	2.13	0.48
31:BL:105:VAL:CG1	31:BL:133:LEU:HD11	2.43	0.48
32:BM:58:ARG:HD3	32:BM:60:ALA:N	2.29	0.48
33:BN:63:ASN:H	33:BN:63:ASN:HD22	1.61	0.48
33:BN:74:GLU:HG2	33:BN:75:PHE:N	2.29	0.48
35:BP:14:VAL:HG21	35:BP:22:TRP:CH2	2.35	0.48
37:BR:95:PHE:CG	38:BS:21:PHE:CB	2.94	0.48
38:BS:23:ARG:HD2	38:BS:28:ILE:CG1	2.44	0.48
42:B0:79:VAL:O	42:B0:79:VAL:HG12	2.13	0.48
44:BX:21:LEU:HD23	44:BX:22:VAL:H	1.76	0.48
45:BY:36:CYS:HB3	45:BY:44:ARG:H	1.78	0.48
1:AA:11:G:N2	1:AA:525:C:H4'	2.24	0.48
1:AA:61:G:C3'	1:AA:386:C:H4'	2.43	0.48
1:AA:1151:A:H62	10:AJ:57:ARG:NH2	2.10	0.48
1:AA:1153:C:H2'	1:AA:1154:G:C8	2.47	0.48
1:AA:1219:U:H3	17:AS:77:ARG:HG3	1.79	0.48
1:AA:1301:U:O2'	13:AM:54:LEU:HD23	2.14	0.48
1:AA:1318:A:N6	17:AS:56:PHE:HZ	2.10	0.48
1:AA:1319:A:C5'	17:AS:49:MET:SD	3.02	0.48
1:AA:1405:G:N1	1:AA:1518:A:C4	2.79	0.48
2:AT:520:THR:HA	2:AT:529:ILE:O	2.13	0.48
3:AB:59:ALA:HA	3:AB:157:VAL:CG1	2.43	0.48
3:AB:177:ALA:O	3:AB:181:LEU:HD23	2.13	0.48
4:AC:122:VAL:CG1	4:AC:135:VAL:HG23	2.44	0.48
5:AD:76:LEU:H	5:AD:76:LEU:CD2	2.27	0.48
5:AD:134:ILE:HG22	5:AD:135:ALA:N	2.28	0.48
9:AI:100:SER:CA	9:AI:116:LEU:HD13	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:62:VAL:HG21	10:AJ:85:ARG:HH21	1.78	0.48
17:AS:90:ILE:HD11	17:AS:112:LEU:CD2	2.40	0.48
18:B3:381:G:O5'	31:BL:119:TRP:CZ3	2.66	0.48
18:B3:555:U:OP2	18:B3:555:U:C6	2.67	0.48
18:B3:613:C:H2'	18:B3:614:U:C6	2.47	0.48
18:B3:764:C:H1'	23:BD:86:GLN:HB2	0.49	0.48
18:B3:1119:G:H22	18:B3:1246:A:H2	1.51	0.48
18:B3:1167:G:C1'	30:BK:111:GLU:CA	2.92	0.48
18:B3:1397:C:O2'	35:BP:23:LEU:CD2	2.62	0.48
18:B3:1445:G:OP1	39:BT:69:GLU:HB2	2.10	0.48
18:B3:1448:A:H3'	39:BT:110:ASN:CB	2.44	0.48
18:B3:1657:A:H2'	18:B3:1658:A:C8	2.49	0.48
18:B3:1662:C:H2'	18:B3:1663:G:O4'	2.14	0.48
18:B3:1806:G:H4'	18:B3:2874:G:O4'	2.12	0.48
18:B3:2244:A:N6	18:B3:2257:G:N2	2.61	0.48
18:B3:2437:A:O3'	46:BZ:14:LYS:CB	2.61	0.48
18:B3:2681:A:C6	18:B3:2714:U:H4'	2.48	0.48
18:B3:2826:G:N9	22:BC:124:SER:CB	2.75	0.48
19:B4:34:A:C2	24:BE:185:PHE:CA	2.96	0.48
20:BA:53:LEU:HD22	20:BA:189:PHE:CG	2.48	0.48
21:BB:51:SER:HA	21:BB:53:ARG:NH2	2.29	0.48
21:BB:179:LEU:CA	47:B9:20:SER:HA	2.38	0.48
22:BC:92:VAL:O	22:BC:93:GLU:HB3	2.14	0.48
22:BC:143:ILE:O	22:BC:146:GLU:HG2	2.13	0.48
22:BC:243:ARG:H	22:BC:243:ARG:CD	2.26	0.48
23:BD:125:ILE:O	23:BD:126:ALA:HB2	2.14	0.48
23:BD:135:LEU:HA	23:BD:139:HIS:HD1	1.78	0.48
24:BE:125:VAL:O	24:BE:125:VAL:HG13	2.12	0.48
24:BE:146:LEU:HD13	24:BE:163:LEU:CG	2.44	0.48
25:BF:105:LEU:H	25:BF:105:LEU:CD2	2.26	0.48
26:BG:122:GLN:HE21	26:BG:188:LEU:CB	2.27	0.48
26:BG:143:GLU:HA	26:BG:172:MET:CE	2.43	0.48
26:BG:163:VAL:HG13	26:BG:164:PHE:N	2.28	0.48
27:BH:46:THR:CG2	27:BH:55:VAL:H	2.26	0.48
28:BI:21:ARG:HG2	28:BI:21:ARG:NH1	2.28	0.48
28:BI:58:GLU:HB3	28:BI:129:VAL:H	1.78	0.48
28:BI:70:ILE:HG13	28:BI:70:ILE:O	2.13	0.48
29:BJ:76:GLU:C	29:BJ:77:GLU:HG3	2.33	0.48
30:BK:85:LEU:CD2	30:BK:87:GLU:HB2	2.44	0.48
31:BL:119:TRP:N	31:BL:119:TRP:CD2	2.77	0.48
31:BL:141:ILE:HD12	31:BL:142:ARG:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:151:CYS:HA	31:BL:153:PRO:O	2.13	0.48
37:BR:54:LEU:H	37:BR:54:LEU:CD2	2.13	0.48
37:BR:92:PHE:CD1	38:BS:20:LEU:CD1	2.94	0.48
44:BX:19:SER:O	44:BX:20:GLN:HB2	2.13	0.48
44:BX:34:GLN:O	44:BX:37:SER:HB3	2.13	0.48
45:BY:18:CYS:SG	45:BY:38:TYR:CZ	3.07	0.48
1:AA:184:G:H2'	1:AA:185:A:H8	1.79	0.48
1:AA:222:U:H2'	1:AA:223:U:C6	2.49	0.48
1:AA:255:G:H4'	16:AQ:80:HIS:HB3	1.96	0.48
1:AA:405:U:H3	5:AD:26:ALA:CA	2.26	0.48
1:AA:521:G:O2'	1:AA:522:C:H5'	2.14	0.48
1:AA:659:U:H2'	1:AA:660:G:O4'	2.14	0.48
1:AA:781:A:H2'	1:AA:782:A:H5'	1.96	0.48
1:AA:1442:G:H21	1:AA:1446:A:H3'	1.79	0.48
4:AC:62:GLY:O	4:AC:65:ILE:HG22	2.14	0.48
4:AC:134:GLU:CB	4:AC:156:LEU:HD21	2.44	0.48
7:AG:173:LEU:HD11	7:AG:174:LEU:HD22	1.93	0.48
8:AH:10:LEU:HB3	8:AH:77:ARG:HD2	1.96	0.48
13:AM:46:VAL:CG2	13:AM:84:TRP:CH2	2.97	0.48
18:B3:26:U:H3'	18:B3:1319:G:O2'	2.13	0.48
18:B3:284:C:OP2	18:B3:284:C:H6	1.95	0.48
18:B3:449:A:C4'	18:B3:1306:U:C2	2.97	0.48
18:B3:541:C:H5"	42:B0:15:LYS:H	1.79	0.48
18:B3:890:C:O2	45:BY:48:TRP:HB2	2.13	0.48
18:B3:1098:A:H5"	25:BF:217:ARG:CA	2.44	0.48
18:B3:1257:C:H2'	18:B3:1258:G:O4'	2.14	0.48
18:B3:1286:A:P	25:BF:156:ASN:H	2.35	0.48
18:B3:1307:A:H2'	18:B3:1308:A:C8	2.49	0.48
18:B3:1383:U:HO2'	43:BW:29:PRO:C	2.16	0.48
18:B3:1773:G:N2	18:B3:1774:G:C8	2.82	0.48
18:B3:1864:C:O2'	31:BL:71:LYS:HA	2.13	0.48
18:B3:2264:A:H2'	18:B3:2265:U:C6	2.49	0.48
18:B3:2290:U:H4'	18:B3:2291:A:OP1	2.12	0.48
18:B3:2738:G:H1'	35:BP:63:ARG:HB2	1.32	0.48
18:B3:2854:A:P	22:BC:170:LEU:HD11	2.53	0.48
18:B3:2890:A:N1	38:BS:51:TRP:CA	2.71	0.48
19:B4:51:A:N3	24:BE:58:LYS:HD3	2.29	0.48
19:B4:103:A:H2'	19:B4:104:A:C8	2.48	0.48
21:BB:62:PHE:CD2	21:BB:63:ARG:N	2.82	0.48
22:BC:88:VAL:HG23	22:BC:158:ARG:O	2.14	0.48
22:BC:232:TRP:NE1	22:BC:234:THR:HB	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:254:TRP:CZ3	22:BC:256:PRO:HB2	2.43	0.48
22:BC:357:TRP:HE3	38:BS:15:PRO:O	1.96	0.48
23:BD:235:LEU:HD12	23:BD:235:LEU:C	2.33	0.48
24:BE:65:ILE:CG2	24:BE:66:SER:N	2.76	0.48
25:BF:166:ALA:O	25:BF:167:ILE:HG13	2.14	0.48
27:BH:94:TYR:HB3	27:BH:177:ASP:CA	2.27	0.48
28:BI:58:GLU:CB	28:BI:128:ARG:HB3	2.44	0.48
28:BI:102:MET:HE3	28:BI:112:GLN:NE2	2.29	0.48
29:BJ:74:LYS:O	29:BJ:78:ILE:HG13	2.14	0.48
30:BK:32:ILE:HG21	30:BK:62:LEU:HD12	1.96	0.48
31:BL:146:ARG:HB3	31:BL:146:ARG:CZ	2.43	0.48
32:BM:37:ALA:HB1	32:BM:79:PHE:HE1	1.79	0.48
32:BM:129:LYS:O	32:BM:129:LYS:HD3	2.00	0.48
33:BN:27:ASN:O	33:BN:86:SER:HB2	2.14	0.48
35:BP:22:TRP:CE3	35:BP:51:LYS:N	2.82	0.48
35:BP:49:ILE:O	35:BP:49:ILE:HG22	2.13	0.48
36:BQ:92:ARG:HG3	36:BQ:93:VAL:N	2.29	0.48
39:BT:132:LEU:HD23	39:BT:133:ASP:H	1.78	0.48
41:BV:6:LYS:H	41:BV:6:LYS:CD	2.27	0.48
43:BW:16:HIS:ND1	43:BW:30:ARG:HG3	2.29	0.48
44:BX:4:VAL:O	44:BX:5:LYS:HG3	2.14	0.48
1:AA:66:G:N3	1:AA:69:G:C5	2.67	0.48
1:AA:318:G:C2	1:AA:1434:A:H2	2.07	0.48
1:AA:618:C:H2'	5:AD:142:ASN:OD1	2.13	0.48
1:AA:620:C:P	5:AD:129:ILE:HD11	2.54	0.48
1:AA:1051:C:H2'	1:AA:1052:U:H6	1.78	0.48
1:AA:1301:U:H5"	13:AM:30:TYR:CA	2.37	0.48
1:AA:1330:U:C1'	13:AM:93:THR:HA	2.27	0.48
1:AA:1376:U:C2'	7:AG:76:TYR:HB2	2.44	0.48
2:AT:86:VAL:HG13	2:AT:93:THR:HG21	1.95	0.48
2:AT:465:LYS:N	2:AT:513:LYS:HB3	1.60	0.48
3:AB:58:LEU:HD11	3:AB:61:ARG:HH22	1.77	0.48
4:AC:20:LEU:HG	4:AC:76:PHE:HE1	1.78	0.48
5:AD:182:GLU:O	5:AD:183:ALA:HB3	2.14	0.48
6:AE:116:THR:HG22	6:AE:117:ALA:N	2.27	0.48
7:AG:166:ARG:HD2	7:AG:167:VAL:HG13	1.94	0.48
11:AK:127:LYS:HD3	11:AK:131:ARG:HD2	1.95	0.48
17:AS:69:GLU:HG3	17:AS:70:ASN:N	2.29	0.48
18:B3:541:C:C5'	42:B0:15:LYS:N	2.77	0.48
18:B3:557:C:O2'	18:B3:558:C:H5'	2.14	0.48
18:B3:618:G:H1'	42:B0:41:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1300:G:N1	18:B3:1330:A:C5	2.82	0.48
18:B3:1308:A:OP2	23:BD:202:ARG:NE	2.36	0.48
18:B3:1886:A:C5'	47:B9:19:SER:HB2	2.39	0.48
18:B3:2112:A:H2'	18:B3:2113:G:H8	1.79	0.48
18:B3:2221:A:H2'	18:B3:2222:C:C6	2.48	0.48
18:B3:2352:G:C5	29:BJ:115:TYR:CE1	3.02	0.48
18:B3:2656:G:H4'	22:BC:18:ARG:O	2.14	0.48
19:B4:26:C:P	24:BE:81:HIS:CE1	3.06	0.48
20:BA:51:GLY:N	20:BA:54:LYS:HB2	2.27	0.48
20:BA:179:LEU:O	20:BA:183:ILE:HG13	2.14	0.48
21:BB:79:GLU:HG3	21:BB:80:GLY:N	2.15	0.48
21:BB:115:VAL:HA	21:BB:162:ARG:CD	2.44	0.48
21:BB:158:SER:HB2	21:BB:160:ASP:OD1	2.14	0.48
21:BB:224:ILE:HD13	21:BB:225:SER:N	2.24	0.48
22:BC:92:VAL:CA	22:BC:101:LEU:HD21	2.43	0.48
22:BC:208:PHE:CD2	22:BC:209:GLU:N	2.82	0.48
22:BC:320:PHE:O	22:BC:321:ILE:HD13	2.14	0.48
23:BD:34:VAL:CA	23:BD:234:LEU:HD21	2.40	0.48
23:BD:149:LEU:HG	23:BD:149:LEU:O	2.13	0.48
24:BE:64:ILE:HD11	24:BE:144:VAL:CG1	2.44	0.48
24:BE:102:GLY:HA2	24:BE:105:ILE:HG22	1.95	0.48
24:BE:146:LEU:HD13	24:BE:163:LEU:CB	2.44	0.48
24:BE:189:GLU:CD	24:BE:223:PHE:HZ	2.17	0.48
24:BE:190:ILE:HG23	24:BE:190:ILE:O	2.14	0.48
26:BG:113:ALA:HB2	26:BG:119:LYS:HA	1.94	0.48
26:BG:115:VAL:HG11	26:BG:213:LEU:HB2	1.94	0.48
27:BH:125:ASN:HD22	27:BH:126:VAL:H	1.61	0.48
28:BI:102:MET:HE2	28:BI:112:GLN:C	2.34	0.48
28:BI:140:THR:HG22	28:BI:141:LYS:CD	2.35	0.48
30:BK:19:GLY:O	30:BK:50:THR:HG21	2.14	0.48
30:BK:64:ILE:CG2	30:BK:68:GLN:HA	2.44	0.48
30:BK:64:ILE:HG22	30:BK:65:GLN:O	2.13	0.48
33:BN:126:ARG:HB2	33:BN:137:LYS:CB	2.40	0.48
33:BN:126:ARG:HG3	33:BN:137:LYS:HB3	1.95	0.48
34:BO:100:THR:HB	34:BO:119:GLY:C	2.34	0.48
35:BP:116:LYS:CA	35:BP:119:TYR:CD1	2.92	0.48
36:BQ:74:VAL:HG12	36:BQ:75:ILE:N	2.29	0.48
37:BR:86:ARG:HD3	37:BR:86:ARG:H	1.79	0.48
38:BS:30:ARG:NH1	38:BS:30:ARG:HG2	2.29	0.48
42:B0:78:ASN:CG	42:B0:79:VAL:H	2.17	0.48
43:BW:59:TRP:HH2	43:BW:66:VAL:HG22	1.73	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:37:GLY:H	45:BY:44:ARG:HB2	1.77	0.48
46:BZ:62:LYS:HZ2	46:BZ:63:THR:H	1.61	0.48
1:AA:51:A:H4'	1:AA:52:G:O5'	2.14	0.48
1:AA:254:G:O3'	16:AQ:82:THR:CG2	2.62	0.48
1:AA:560:U:O4'	1:AA:563:A:P	2.72	0.48
1:AA:722:A:H4'	1:AA:723:U:C5	2.48	0.48
1:AA:834:C:H2'	1:AA:835:U:H6	1.79	0.48
1:AA:913:A:O2'	1:AA:914:A:P	2.72	0.48
1:AA:959:A:H2'	1:AA:960:U:O4'	2.14	0.48
1:AA:991:U:OP2	1:AA:1212:U:O4	2.32	0.48
1:AA:1003:G:N2	1:AA:1039:C:C2	2.82	0.48
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.49	0.48
1:AA:1346:A:OP1	9:AI:134:ARG:NH2	2.44	0.48
2:AT:107:GLY:O	2:AT:109:VAL:HG13	2.13	0.48
3:AB:106:PHE:HE2	3:AB:117:PRO:CG	2.27	0.48
3:AB:110:ILE:HD13	3:AB:110:ILE:C	2.33	0.48
4:AC:114:ILE:HG13	4:AC:149:MET:SD	2.54	0.48
5:AD:106:GLU:OE1	5:AD:115:LYS:HE2	2.14	0.48
5:AD:179:ARG:CD	5:AD:182:GLU:HG3	2.44	0.48
7:AG:166:ARG:HD3	7:AG:167:VAL:N	2.29	0.48
8:AH:34:ILE:HG23	8:AH:35:LYS:N	2.29	0.48
10:AJ:58:LEU:CG	10:AJ:90:TYR:HD2	2.27	0.48
10:AJ:61:LYS:H	10:AJ:61:LYS:CD	2.15	0.48
16:AQ:81:ARG:HD2	16:AQ:109:HIS:CE1	2.49	0.48
17:AS:89:MET:HB2	17:AS:107:ILE:CD1	2.42	0.48
18:B3:183:A:C4'	31:BL:158:ARG:HH11	2.25	0.48
18:B3:197:C:OP2	18:B3:198:A:H8	1.97	0.48
18:B3:598:C:O2'	18:B3:599:G:H5'	2.13	0.48
18:B3:619:U:C5'	42:B0:46:PHE:HE1	2.27	0.48
18:B3:1053:G:H3'	28:BI:110:ARG:NH2	2.27	0.48
18:B3:1067:A:C5'	25:BF:96:PRO:HD3	2.44	0.48
18:B3:1180:C:H1'	30:BK:110:ILE:CG1	2.44	0.48
18:B3:1260:G:C6	42:B0:45:ARG:NH1	2.82	0.48
18:B3:1310:U:C5	23:BD:203:GLY:N	2.81	0.48
18:B3:1432:U:OP1	33:BN:22:ARG:NH2	2.47	0.48
18:B3:1800:G:OP1	35:BP:69:LYS:NZ	2.46	0.48
18:B3:2103:A:N7	18:B3:2538:A:N1	2.62	0.48
18:B3:2252:A:H2'	18:B3:2253:G:O4'	2.14	0.48
18:B3:2334:C:OP1	29:BJ:110:ASP:O	2.32	0.48
18:B3:2383:G:H5'	46:BZ:12:LYS:HG3	1.96	0.48
18:B3:2560:C:C3'	27:BH:168:ARG:CG	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2883:A:H2'	18:B3:2884:G:O4'	2.13	0.48
19:B4:13:A:OP2	24:BE:11:ALA:CB	2.62	0.48
21:BB:220:LYS:HZ2	21:BB:220:LYS:C	2.17	0.48
22:BC:47:GLY:N	22:BC:80:THR:HG22	2.29	0.48
22:BC:48:TYR:CE2	22:BC:334:ILE:HG22	2.49	0.48
22:BC:87:GLY:HA2	22:BC:198:PHE:CE1	2.49	0.48
22:BC:158:ARG:HD3	22:BC:179:GLU:CB	2.44	0.48
23:BD:30:ARG:HB3	23:BD:33:ILE:CD1	2.41	0.48
24:BE:49:TYR:CD1	24:BE:66:SER:N	2.82	0.48
27:BH:19:SER:C	27:BH:26:LYS:HD2	2.34	0.48
30:BK:19:GLY:CA	30:BK:50:THR:CG2	2.92	0.48
32:BM:44:GLY:N	32:BM:134:TYR:HD1	2.03	0.48
32:BM:49:ASN:HD21	32:BM:136:THR:HG22	1.78	0.48
35:BP:36:SER:HB3	35:BP:38:ASN:OD1	2.14	0.48
36:BQ:36:VAL:HG13	36:BQ:37:GLY:N	2.29	0.48
38:BS:52:THR:O	38:BS:55:PHE:HB3	2.13	0.48
40:BU:82:VAL:CG1	40:BU:83:ASP:H	2.19	0.48
40:BU:111:LEU:CA	40:BU:116:LYS:HE3	2.27	0.48
41:BV:60:PHE:CE2	41:BV:61:HIS:CE1	3.02	0.48
43:BW:52:PRO:HB3	43:BW:56:GLN:HE22	1.78	0.48
43:BW:77:LYS:HD2	43:BW:77:LYS:O	2.14	0.48
44:BX:17:LEU:O	44:BX:21:LEU:HB3	2.13	0.48
45:BY:31:LYS:O	45:BY:32:THR:HG23	2.14	0.48
46:BZ:88:LYS:HD3	46:BZ:88:LYS:C	2.34	0.48
1:AA:267:C:H2'	1:AA:268:C:C6	2.49	0.47
1:AA:435:C:O2'	1:AA:436:C:H5'	2.14	0.47
1:AA:513:C:H2'	1:AA:514:C:C6	2.49	0.47
1:AA:518:C:O2'	12:AL:66:SER:CA	2.62	0.47
1:AA:521:G:OP1	12:AL:90:ASP:C	2.51	0.47
1:AA:523:A:C6	12:AL:116:ASP:HB2	2.46	0.47
1:AA:706:A:C5'	11:AK:23:ASN:HD22	2.15	0.47
1:AA:860:A:C4'	8:AH:18:LYS:HZ2	2.27	0.47
1:AA:951:G:OP2	13:AM:140:THR:HG21	2.14	0.47
1:AA:1130:A:C4'	9:AI:65:ARG:HH22	2.22	0.47
1:AA:1262:C:H42	1:AA:1273:G:H1	1.62	0.47
1:AA:1316:G:C6	17:AS:49:MET:HE2	2.45	0.47
2:AT:156:VAL:HG21	2:AT:334:LEU:CD2	2.43	0.47
2:AT:536:LEU:HD22	18:B3:2698:G:H4'	1.94	0.47
3:AB:23:LEU:HD23	3:AB:49:VAL:CG2	2.43	0.47
5:AD:127:VAL:CA	5:AD:130:THR:HG22	2.44	0.47
6:AE:142:TYR:CG	6:AE:143:TRP:N	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:143:TRP:CD1	6:AE:144:GLY:N	2.82	0.47
7:AG:97:MET:HG3	7:AG:110:VAL:HG12	1.95	0.47
8:AH:105:THR:OG1	8:AH:107:ALA:HB3	2.13	0.47
16:AQ:107:PRO:O	16:AQ:134:VAL:HG23	2.14	0.47
18:B3:12:U:C2'	18:B3:13:G:H5'	2.43	0.47
18:B3:284:C:C1'	18:B3:285:A:OP2	2.61	0.47
18:B3:452:G:C8	23:BD:193:TYR:HB2	2.47	0.47
18:B3:677:C:H1'	23:BD:229:VAL:O	2.13	0.47
18:B3:698:A:C3'	41:BV:114:LYS:HB2	2.23	0.47
18:B3:709:G:H5'	34:BO:47:VAL:HG21	1.96	0.47
18:B3:722:G:C1'	34:BO:141:ARG:HE	2.27	0.47
18:B3:843:A:H4'	33:BN:130:ARG:HG3	1.91	0.47
18:B3:968:G:C4'	28:BI:35:ASP:OD2	2.62	0.47
18:B3:1228:C:OP1	32:BM:47:PHE:HD1	1.97	0.47
18:B3:1427:A:O3'	33:BN:20:TYR:HE1	1.97	0.47
18:B3:1736:A:OP1	22:BC:243:ARG:HG2	2.13	0.47
18:B3:1791:U:O2'	18:B3:1792:C:H5'	2.13	0.47
18:B3:1814:G:P	18:B3:2733:U:O2	2.72	0.47
18:B3:2037:C:OP2	37:BR:47:ASN:C	2.51	0.47
18:B3:2081:A:C4'	32:BM:69:PRO:HG2	2.44	0.47
18:B3:2166:G:C6	20:BA:61:PRO:CD	2.96	0.47
18:B3:2656:G:HO2'	22:BC:268:GLN:HE22	1.54	0.47
19:B4:108:C:O2'	19:B4:109:G:H5'	2.14	0.47
20:BA:43:PRO:CA	20:BA:132:GLY:O	2.59	0.47
20:BA:100:ILE:HD13	20:BA:100:ILE:C	2.35	0.47
20:BA:194:LEU:HG	20:BA:195:LYS:N	2.28	0.47
21:BB:8:ARG:HD2	21:BB:15:PHE:CD1	2.49	0.47
21:BB:36:ARG:HD2	21:BB:36:ARG:N	2.29	0.47
21:BB:62:PHE:CD1	21:BB:62:PHE:N	2.81	0.47
21:BB:73:GLU:OE1	21:BB:73:GLU:HA	2.14	0.47
21:BB:138:HIS:NE2	21:BB:145:THR:HB	2.28	0.47
22:BC:104:VAL:CG2	22:BC:198:PHE:CE1	2.95	0.47
22:BC:122:TYR:CD1	22:BC:123:LYS:N	2.82	0.47
22:BC:236:LYS:CD	22:BC:236:LYS:H	2.27	0.47
22:BC:274:ARG:HD3	22:BC:274:ARG:C	2.34	0.47
23:BD:185:LYS:HB3	23:BD:185:LYS:HZ2	1.79	0.47
24:BE:43:LYS:CD	24:BE:44:TYR:CD1	2.95	0.47
25:BF:153:GLY:H	25:BF:200:PHE:HB2	1.78	0.47
25:BF:154:LYS:HD3	25:BF:201:LEU:HD21	1.96	0.47
26:BG:204:ALA:O	26:BG:205:GLU:HB3	2.13	0.47
31:BL:6:LEU:HD23	31:BL:6:LEU:HA	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:58:PHE:HD1	31:BL:132:ILE:CG2	2.27	0.47
33:BN:35:ILE:CA	33:BN:38:TRP:CD1	2.94	0.47
37:BR:11:PHE:CE2	37:BR:121:GLU:CG	2.95	0.47
37:BR:19:VAL:CG1	37:BR:50:PRO:HG3	2.44	0.47
37:BR:54:LEU:HD11	37:BR:81:GLN:HB2	1.95	0.47
38:BS:45:ASN:CB	38:BS:47:ARG:HH22	2.27	0.47
40:BU:27:ARG:CB	40:BU:78:PHE:CE2	2.96	0.47
40:BU:101:PRO:CB	40:BU:104:LEU:HD21	2.43	0.47
41:BV:51:TYR:O	41:BV:52:PHE:HB2	2.14	0.47
41:BV:130:SER:OG	41:BV:132:LEU:HD23	2.14	0.47
42:B0:117:ILE:HD13	42:B0:117:ILE:N	2.29	0.47
43:BW:13:ILE:HD12	43:BW:13:ILE:C	2.34	0.47
43:BW:77:LYS:HE2	43:BW:79:ASN:CB	2.22	0.47
1:AA:41:G:H2'	1:AA:42:G:C8	2.49	0.47
1:AA:41:G:H2'	1:AA:42:G:H8	1.79	0.47
1:AA:179:A:H2'	1:AA:180:U:C6	2.49	0.47
1:AA:190(C):C:H41	16:AQ:112:PRO:HD3	1.75	0.47
1:AA:245:C:O2	1:AA:283:C:N3	2.46	0.47
1:AA:848:C:H2'	1:AA:849:C:C6	2.49	0.47
1:AA:877:C:C1'	8:AH:3:SER:HG	2.21	0.47
1:AA:947:G:C4'	13:AM:143:ARG:NH2	2.70	0.47
1:AA:991:U:P	1:AA:1212:U:O4	2.71	0.47
1:AA:1221:G:N7	17:AS:79:HIS:CG	2.82	0.47
1:AA:1221:G:OP2	17:AS:80:MET:CA	2.62	0.47
1:AA:1299:A:C6	13:AM:55:HIS:ND1	2.79	0.47
3:AB:46:VAL:HG13	3:AB:46:VAL:O	2.14	0.47
3:AB:193:PRO:O	3:AB:196:ILE:HB	2.14	0.47
4:AC:15:VAL:HG13	4:AC:16:PHE:N	2.28	0.47
4:AC:46:GLU:O	4:AC:84:VAL:HG23	2.14	0.47
6:AE:96:ARG:NE	6:AE:116:THR:HG21	2.29	0.47
7:AG:136:ILE:HG23	7:AG:137:THR:N	2.28	0.47
8:AH:10:LEU:HD22	8:AH:77:ARG:HD2	1.97	0.47
8:AH:93:LEU:HD12	8:AH:93:LEU:N	2.28	0.47
9:AI:98:GLU:N	9:AI:105:LYS:HB3	2.29	0.47
9:AI:126:LYS:HB3	9:AI:126:LYS:NZ	2.27	0.47
10:AJ:69:LYS:HD2	14:AN:39:ARG:NH2	2.27	0.47
17:AS:110:GLU:HG2	17:AS:111:MET:N	2.29	0.47
18:B3:35:U:H2'	18:B3:36:C:C6	2.49	0.47
18:B3:70:A:OP1	44:BX:48:ARG:HD3	2.14	0.47
18:B3:99:A:C4	40:BU:24:SER:HB3	2.49	0.47
18:B3:106:A:C2	44:BX:56:THR:HB	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:121:U:C5	45:BY:17:LEU:HD13	2.47	0.47
18:B3:145:A:N3	31:BL:111:ASN:ND2	2.58	0.47
18:B3:242:A:HO2'	31:BL:2:ALA:N	2.11	0.47
18:B3:263:U:OP1	26:BG:195:ALA:HA	2.14	0.47
18:B3:540:A:O2'	42:B0:51:SER:C	2.41	0.47
18:B3:898:G:OP1	41:BV:27:HIS:CD2	2.67	0.47
18:B3:1062:U:O2'	18:B3:2307:A:N3	2.44	0.47
18:B3:1115:U:O2	18:B3:1225:C:O4'	2.32	0.47
18:B3:1133:A:H5"	28:BI:162:GLN:HG3	1.96	0.47
18:B3:1154:A:N3	18:B3:2786:G:C5	2.75	0.47
18:B3:1347:U:C2'	23:BD:241:ALA:HB3	2.44	0.47
18:B3:1352:A:O5'	23:BD:49:TYR:O	2.32	0.47
18:B3:1425:G:O2'	18:B3:1426:C:H5'	2.14	0.47
18:B3:1561:U:H2'	18:B3:1562:C:C6	2.44	0.47
18:B3:1705:C:H4'	35:BP:62:THR:CA	2.27	0.47
18:B3:2089:A:H5"	33:BN:68:ARG:HH21	1.77	0.47
18:B3:2134:G:N7	18:B3:2258:A:C2'	2.76	0.47
18:B3:2279:G:N2	18:B3:2463:A:H1'	2.28	0.47
18:B3:2295:G:C5'	36:BQ:5:HIS:N	2.78	0.47
18:B3:2379:G:OP2	46:BZ:8:LYS:CD	2.62	0.47
19:B4:13:A:H1'	24:BE:20:PHE:CE1	2.50	0.47
20:BA:48:ARG:CD	20:BA:161:LYS:HA	2.44	0.47
20:BA:49:PHE:CD2	20:BA:193:LEU:CD2	2.93	0.47
23:BD:59:THR:CG2	23:BD:83:ARG:HD2	2.31	0.47
24:BE:108:ARG:CZ	24:BE:112:ARG:HG2	2.43	0.47
25:BF:175:TYR:CD2	25:BF:176:GLY:N	2.82	0.47
26:BG:149:LEU:CD2	26:BG:210:LEU:HG	2.44	0.47
26:BG:206:ASP:O	26:BG:210:LEU:HB3	2.14	0.47
28:BI:60:LEU:HD21	28:BI:127:ALA:HB3	1.95	0.47
28:BI:87:LEU:HD13	28:BI:88:ARG:C	2.35	0.47
28:BI:140:THR:HG21	28:BI:141:LYS:NZ	2.29	0.47
29:BJ:37:GLU:HB3	29:BJ:38:GLN:NE2	2.30	0.47
29:BJ:62:GLU:CD	29:BJ:64:ILE:H	2.18	0.47
31:BL:43:ARG:HE	31:BL:46:LYS:HB2	1.77	0.47
31:BL:65:VAL:N	31:BL:126:TYR:CD2	2.82	0.47
31:BL:66:ARG:CA	31:BL:126:TYR:CE1	2.94	0.47
33:BN:52:ASP:O	33:BN:53:HIS:HB2	2.14	0.47
35:BP:8:ARG:CZ	35:BP:8:ARG:CA	2.89	0.47
35:BP:17:GLY:H	35:BP:20:LYS:HE2	1.75	0.47
36:BQ:84:TYR:C	36:BQ:86:GLU:H	2.17	0.47
37:BR:39:VAL:HG11	37:BR:58:VAL:HG12	1.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:60:LYS:HD3	39:BT:60:LYS:N	2.28	0.47
41:BV:133:ALA:O	41:BV:137:ILE:HG13	2.14	0.47
41:BV:135:GLU:O	41:BV:136:LYS:HB2	2.14	0.47
42:B0:96:ILE:HD11	42:B0:100:ILE:CG2	2.42	0.47
43:BW:17:LYS:HB2	43:BW:27:ARG:CD	2.43	0.47
43:BW:28:ALA:CB	43:BW:59:TRP:CD2	2.97	0.47
45:BY:15:HIS:HA	45:BY:27:HIS:HA	1.96	0.47
46:BZ:27:TYR:CZ	46:BZ:68:VAL:CG2	2.97	0.47
47:B9:55:THR:HB	47:B9:61:LYS:O	2.13	0.47
1:AA:51:A:H4'	1:AA:52:G:C5'	2.44	0.47
1:AA:143:A:H5"	1:AA:200:G:O5'	2.13	0.47
1:AA:294:U:C5'	1:AA:610:G:O2'	2.62	0.47
1:AA:613:C:O2'	1:AA:614:A:H5'	2.14	0.47
1:AA:1021:G:C2'	1:AA:1022:G:H5'	2.44	0.47
1:AA:1299:A:C8	1:AA:1301:U:H1'	2.49	0.47
1:AA:1300:G:O2'	1:AA:1301:U:H6	1.97	0.47
1:AA:1322:C:N4	17:AS:81:ARG:HH11	2.11	0.47
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.14	0.47
1:AA:1532:U:O5'	1:AA:1532:U:H6	1.97	0.47
2:AT:559:PRO:HG2	2:AT:778:PHE:CE1	2.49	0.47
2:AT:737:GLU:HB2	2:AT:766:PHE:CE2	2.49	0.47
2:AT:829:LYS:HE3	2:AT:829:LYS:HA	1.96	0.47
3:AB:120:VAL:O	3:AB:120:VAL:HG13	2.13	0.47
4:AC:105:LYS:HG3	4:AC:172:ARG:HG3	1.96	0.47
4:AC:105:LYS:HD2	4:AC:172:ARG:O	2.12	0.47
4:AC:161:GLN:HE21	4:AC:161:GLN:CA	2.27	0.47
6:AE:138:ILE:HD12	6:AE:217:ILE:HD12	1.96	0.47
6:AE:219:ASN:CB	8:AH:76:PRO:HG2	2.32	0.47
9:AI:8:THR:HB	9:AI:87:GLY:H	1.79	0.47
9:AI:99:GLN:N	9:AI:105:LYS:CA	2.77	0.47
12:AL:43:PHE:CD1	12:AL:44:GLY:N	2.83	0.47
12:AL:56:LYS:HD3	12:AL:96:VAL:O	2.14	0.47
12:AL:74:VAL:CG2	12:AL:83:VAL:HG23	2.44	0.47
13:AM:18:LEU:HD13	13:AM:74:GLN:CD	2.33	0.47
13:AM:56:LYS:HG2	13:AM:60:GLU:HB3	1.96	0.47
18:B3:449:A:N3	18:B3:1348:A:N6	2.62	0.47
18:B3:659:A:OP2	34:BO:107:THR:CB	2.40	0.47
18:B3:700:A:OP2	41:BV:116:ARG:N	2.47	0.47
18:B3:898:G:C5'	41:BV:25:ARG:CG	2.92	0.47
18:B3:940:G:O2'	18:B3:941:G:H5'	2.14	0.47
18:B3:949:U:C1'	36:BQ:100:LYS:CA	2.89	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:954:U:OP2	36:BQ:13:TYR:OH	2.32	0.47
18:B3:1024:G:HO2'	25:BF:104:LEU:HG	1.77	0.47
18:B3:1344:G:H5"	23:BD:197:ARG:NH1	2.29	0.47
18:B3:1349:G:H5'	23:BD:40:SER:HA	1.68	0.47
18:B3:1806:G:C4'	18:B3:2874:G:C2'	2.91	0.47
18:B3:2093:G:N2	22:BC:256:PRO:O	2.47	0.47
18:B3:2559:C:H4'	18:B3:2799:A:O5'	2.14	0.47
18:B3:2818:A:C4	22:BC:99:ARG:HA	2.48	0.47
18:B3:2890:A:C1'	38:BS:50:ALA:HA	2.42	0.47
20:BA:59:PRO:HD3	20:BA:153:SER:HB3	1.96	0.47
20:BA:161:LYS:HD3	20:BA:161:LYS:N	2.26	0.47
21:BB:101:LEU:HD11	21:BB:105:SER:HB3	1.93	0.47
21:BB:112:VAL:HA	21:BB:165:ILE:O	2.14	0.47
21:BB:115:VAL:HA	21:BB:162:ARG:HH11	1.78	0.47
22:BC:327:ILE:HB	22:BC:328:PRO:C	2.34	0.47
23:BD:38:PHE:N	23:BD:38:PHE:CD1	2.82	0.47
23:BD:174:HIS:HA	23:BD:177:LEU:HD11	1.96	0.47
23:BD:208:TYR:CD1	23:BD:248:ILE:CG2	2.94	0.47
23:BD:245:ARG:HH11	23:BD:246:PHE:H	1.61	0.47
24:BE:75:LEU:HD23	24:BE:75:LEU:N	2.29	0.47
26:BG:149:LEU:HD12	26:BG:214:VAL:HG12	1.96	0.47
27:BH:83:THR:O	27:BH:84:LYS:HG2	2.14	0.47
27:BH:150:SER:O	27:BH:154:VAL:HG13	2.14	0.47
27:BH:170:LYS:O	27:BH:171:ASP:HB3	2.14	0.47
28:BI:50:VAL:CG2	28:BI:51:HIS:H	2.18	0.47
29:BJ:36:LEU:HB2	29:BJ:67:HIS:CD2	2.49	0.47
31:BL:47:ALA:O	31:BL:48:ARG:HB2	2.14	0.47
31:BL:58:PHE:CZ	31:BL:147:TYR:CE1	3.03	0.47
31:BL:82:LYS:NZ	46:BZ:49:PHE:CB	2.54	0.47
31:BL:119:TRP:HB3	31:BL:129:PHE:HA	1.96	0.47
32:BM:37:ALA:HB2	32:BM:79:PHE:CZ	2.49	0.47
32:BM:58:ARG:HD2	32:BM:60:ALA:CA	2.44	0.47
35:BP:18:LYS:CE	35:BP:18:LYS:CA	2.93	0.47
35:BP:134:LYS:HG3	35:BP:135:ARG:N	2.29	0.47
37:BR:57:MET:HE2	37:BR:126:TRP:CH2	2.50	0.47
41:BV:86:ARG:HH22	41:BV:91:LYS:CB	2.28	0.47
41:BV:121:PRO:HB3	41:BV:140:ALA:CB	2.44	0.47
42:B0:15:LYS:CD	42:B0:16:LYS:HD2	2.44	0.47
43:BW:17:LYS:C	43:BW:19:LEU:H	2.18	0.47
43:BW:59:TRP:HH2	43:BW:66:VAL:CB	2.27	0.47
44:BX:44:ILE:CA	44:BX:47:VAL:HG12	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:25:C:C2'	12:AL:109:ARG:HH11	2.17	0.47
1:AA:293:G:C5'	1:AA:610:G:C5	2.91	0.47
1:AA:430:A:C2'	1:AA:431:A:H5'	2.44	0.47
1:AA:458:C:H2'	1:AA:459:G:H8	1.79	0.47
1:AA:538:G:C1'	12:AL:140:LYS:NZ	2.78	0.47
1:AA:666:G:N3	15:AO:109:ASP:OD2	2.47	0.47
1:AA:1067:A:H4'	1:AA:1387:G:H4'	1.97	0.47
1:AA:1318:A:N1	17:AS:82:ASN:CG	2.67	0.47
1:AA:1321:C:N4	17:AS:81:ARG:CG	2.70	0.47
1:AA:1348:U:H5'	9:AI:124:GLU:OE1	2.15	0.47
1:AA:1503:A:O2'	1:AA:1504:G:P	2.71	0.47
3:AB:29:GLN:HA	3:AB:29:GLN:NE2	2.30	0.47
6:AE:133:LEU:HD13	6:AE:133:LEU:C	2.34	0.47
12:AL:41:SER:C	12:AL:43:PHE:H	2.18	0.47
13:AM:18:LEU:HG	13:AM:101:LEU:HD12	1.95	0.47
13:AM:78:HIS:N	13:AM:85:PHE:CE1	2.82	0.47
18:B3:197:C:OP2	18:B3:198:A:C8	2.68	0.47
18:B3:449:A:N3	18:B3:1348:A:N1	2.63	0.47
18:B3:1119:G:N2	18:B3:1246:A:N1	2.62	0.47
18:B3:1184:A:O4'	30:BK:86:LYS:HB2	2.12	0.47
18:B3:1349:G:H4'	23:BD:42:ASN:H	1.79	0.47
18:B3:1380:U:O2	18:B3:1380:U:C2'	2.60	0.47
18:B3:1422:U:H2'	18:B3:1423:C:C6	2.50	0.47
18:B3:1503:U:H2'	18:B3:1504:A:O4'	2.13	0.47
18:B3:1674:C:C5'	39:BT:119:LYS:HE2	1.71	0.47
18:B3:2220:C:H4'	20:BA:212:PRO:HD3	1.96	0.47
18:B3:2372:A:H2'	18:B3:2373:U:C6	2.50	0.47
18:B3:2581:U:H4'	18:B3:2600:A:C2	2.49	0.47
19:B4:85:A:O3'	25:BF:218:LYS:CG	2.61	0.47
19:B4:118:C:O2	24:BE:72:ASP:N	2.36	0.47
21:BB:185:PHE:CG	21:BB:186:HIS:N	2.82	0.47
22:BC:26:ALA:O	22:BC:337:LEU:HD11	2.15	0.47
22:BC:115:ARG:HH21	22:BC:119:LYS:HE2	1.79	0.47
22:BC:213:MET:CE	22:BC:344:ASN:HD21	2.27	0.47
22:BC:214:ILE:HG22	22:BC:215:ASP:N	2.29	0.47
22:BC:261:TRP:CE3	22:BC:262:SER:N	2.82	0.47
22:BC:286:LYS:HG2	22:BC:287:GLY:N	2.29	0.47
22:BC:357:TRP:HB3	38:BS:15:PRO:C	2.33	0.47
23:BD:149:LEU:CD2	23:BD:246:PHE:CE2	2.96	0.47
24:BE:20:PHE:CB	24:BE:24:ARG:CB	2.93	0.47
25:BF:103:GLN:HA	25:BF:106:ARG:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:222:PHE:CD2	25:BF:223:ILE:N	2.82	0.47
26:BG:165:LEU:N	26:BG:166:PRO:HD2	2.28	0.47
28:BI:130:ASP:CG	28:BI:131:ILE:H	2.17	0.47
28:BI:138:VAL:HG12	28:BI:139:ARG:N	2.28	0.47
28:BI:148:VAL:HG13	28:BI:149:VAL:N	2.29	0.47
29:BJ:32:ALA:N	29:BJ:34:LYS:HE3	2.29	0.47
29:BJ:32:ALA:O	29:BJ:35:VAL:HG12	2.15	0.47
30:BK:20:GLY:N	30:BK:54:LYS:HD2	2.29	0.47
31:BL:168:LYS:HA	31:BL:171:ARG:NH1	2.28	0.47
31:BL:190:TRP:O	31:BL:191:LYS:HB3	2.14	0.47
32:BM:26:LEU:HD21	32:BM:97:ALA:HA	1.97	0.47
35:BP:102:ARG:HB3	35:BP:102:ARG:HH11	1.77	0.47
40:BU:14:LYS:N	40:BU:17:LYS:HG2	2.29	0.47
40:BU:42:GLN:O	40:BU:43:TYR:HB3	2.14	0.47
41:BV:121:PRO:HB3	41:BV:140:ALA:C	2.35	0.47
42:B0:32:TRP:CE3	42:B0:33:ARG:N	2.82	0.47
42:B0:96:ILE:O	42:B0:96:ILE:HG23	2.13	0.47
43:BW:27:ARG:HD2	43:BW:66:VAL:HG21	1.95	0.47
43:BW:70:LEU:HD12	43:BW:70:LEU:N	2.28	0.47
1:AA:120:A:N3	1:AA:122:G:C5	2.83	0.47
1:AA:143:A:P	1:AA:201:C:C4	3.07	0.47
1:AA:528:C:H5'	1:AA:535:A:C6	2.50	0.47
1:AA:989:C:C2	1:AA:1016:A:H1'	2.49	0.47
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.13	0.47
1:AA:1220:G:C8	17:AS:78:THR:OG1	2.42	0.47
1:AA:1461:G:O2'	1:AA:1462:G:H5'	2.15	0.47
2:AT:464:LEU:HB2	2:AT:509:LYS:O	2.14	0.47
2:AT:785:ARG:HG3	2:AT:785:ARG:NH1	2.27	0.47
3:AB:28:VAL:HG22	3:AB:29:GLN:H	1.80	0.47
3:AB:59:ALA:CB	3:AB:157:VAL:CG1	2.92	0.47
4:AC:10:LEU:CD2	4:AC:10:LEU:H	2.27	0.47
4:AC:101:ALA:CA	4:AC:185:VAL:HG21	2.43	0.47
5:AD:99:LEU:HD13	5:AD:101:VAL:N	2.28	0.47
5:AD:131:GLN:HE21	5:AD:131:GLN:CA	2.27	0.47
7:AG:208:TYR:CE2	7:AG:212:LYS:CE	2.95	0.47
9:AI:48:TYR:CE1	9:AI:84:ILE:HD12	2.50	0.47
9:AI:98:GLU:N	9:AI:105:LYS:CB	2.77	0.47
9:AI:105:LYS:HD2	9:AI:106:LYS:N	2.29	0.47
12:AL:86:PHE:O	12:AL:124:VAL:HG22	2.13	0.47
13:AM:132:ARG:HB3	13:AM:136:GLN:NE2	2.26	0.47
15:AO:80:ALA:HB1	15:AO:81:PRO:CD	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:78:G:HO2'	40:BU:27:ARG:CZ	2.19	0.47
18:B3:353:G:O2'	18:B3:354:A:H5'	2.14	0.47
18:B3:619:U:C5'	42:B0:46:PHE:CE1	2.97	0.47
18:B3:773:A:O4'	45:BY:46:TYR:CZ	2.67	0.47
18:B3:894:A:N3	23:BD:98:MET:HE3	2.29	0.47
18:B3:906:C:N3	18:B3:1329:A:C5	2.77	0.47
18:B3:1154:A:C5	18:B3:1156:C:C1'	2.96	0.47
18:B3:1309:U:H2'	18:B3:1310:U:H5'	1.96	0.47
18:B3:1371:U:OP1	33:BN:66:ILE:HD12	2.15	0.47
18:B3:1378:G:C5	18:B3:2748:G:N7	2.83	0.47
18:B3:1469:C:OP1	31:BL:66:ARG:HG2	2.15	0.47
18:B3:1731:C:OP1	18:B3:2839:C:C2	2.65	0.47
18:B3:1744:G:O3'	37:BR:22:ILE:HD13	2.15	0.47
18:B3:2074:A:H4'	18:B3:2075:G:OP1	2.13	0.47
18:B3:2366:C:OP1	36:BQ:23:GLY:O	2.31	0.47
18:B3:2385:G:H2'	18:B3:2386:U:C6	2.50	0.47
18:B3:2782:G:O6	18:B3:2790:C:H5"	2.13	0.47
18:B3:2842:G:C2'	18:B3:2843:A:H5'	2.45	0.47
18:B3:2897:C:H5"	22:BC:312:HIS:HE2	1.70	0.47
19:B4:36:C:C6	24:BE:181:PRO:CB	2.98	0.47
20:BA:43:PRO:CG	20:BA:132:GLY:HA2	2.13	0.47
21:BB:188:TYR:CE1	21:BB:195:TRP:CB	2.95	0.47
22:BC:39:PRO:HB3	22:BC:184:GLY:N	2.29	0.47
22:BC:46:LEU:O	22:BC:163:THR:HG21	2.15	0.47
22:BC:80:THR:OG1	22:BC:204:VAL:HG11	2.15	0.47
22:BC:121:TRP:CD1	22:BC:122:TYR:N	2.82	0.47
22:BC:157:VAL:HG22	22:BC:158:ARG:N	2.29	0.47
22:BC:251:ILE:HG22	22:BC:259:VAL:CG2	2.44	0.47
22:BC:254:TRP:HB2	22:BC:255:HIS:H	1.50	0.47
23:BD:196:ARG:CG	23:BD:198:TRP:CE2	2.95	0.47
25:BF:103:GLN:O	25:BF:104:LEU:HB3	2.12	0.47
25:BF:149:LYS:HG3	25:BF:150:ARG:N	2.29	0.47
27:BH:8:GLN:HG3	27:BH:9:GLN:H	1.75	0.47
27:BH:46:THR:CB	27:BH:55:VAL:HG23	2.43	0.47
27:BH:172:ILE:O	27:BH:173:ARG:HB2	2.15	0.47
28:BI:76:MET:SD	28:BI:148:VAL:HA	2.54	0.47
29:BJ:59:ARG:HD3	29:BJ:62:GLU:OE1	2.14	0.47
29:BJ:132:ARG:NH1	29:BJ:132:ARG:HG3	2.27	0.47
31:BL:43:ARG:HH21	31:BL:47:ALA:H	1.62	0.47
31:BL:62:ARG:O	31:BL:63:VAL:HG23	2.15	0.47
33:BN:62:PHE:CD2	33:BN:63:ASN:N	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:101:ALA:C	33:BN:106:LEU:HD21	2.35	0.47
33:BN:130:ARG:HA	33:BN:134:ARG:O	2.15	0.47
34:BO:48:VAL:HG13	34:BO:49:LEU:N	2.29	0.47
34:BO:139:ILE:HG21	34:BO:141:ARG:NH1	2.28	0.47
35:BP:14:VAL:HG11	35:BP:16:VAL:CG2	2.43	0.47
35:BP:22:TRP:CG	35:BP:50:VAL:N	2.82	0.47
35:BP:92:VAL:CA	35:BP:95:ILE:HD13	2.45	0.47
36:BQ:75:ILE:N	36:BQ:91:LEU:HD23	2.29	0.47
40:BU:57:LEU:CA	40:BU:67:GLU:CG	2.93	0.47
41:BV:111:ILE:HG12	41:BV:129:VAL:HG23	1.97	0.47
42:B0:86:THR:HG23	42:B0:86:THR:O	2.14	0.47
45:BY:48:TRP:HD1	45:BY:49:GLY:HA3	1.79	0.47
46:BZ:37:GLN:HG2	46:BZ:40:ARG:NE	2.27	0.47
47:B9:26:LYS:H	47:B9:28:LEU:HD12	1.79	0.47
1:AA:19:C:H2'	1:AA:20:U:H6	1.80	0.47
1:AA:118:U:C4'	1:AA:122:G:H1'	2.45	0.47
1:AA:336:C:C5	1:AA:1434:A:H1'	2.50	0.47
1:AA:778:G:C5'	11:AK:127:LYS:O	2.61	0.47
1:AA:1223:C:H5"	17:AS:100:LYS:NZ	2.30	0.47
1:AA:1241:G:C5	7:AG:184:ARG:NH2	2.83	0.47
1:AA:1299:A:O3'	13:AM:26:ILE:CG1	2.63	0.47
2:AT:162:ARG:HG3	2:AT:166:GLU:OE2	2.14	0.47
2:AT:738:GLN:N	18:B3:1199:A:N6	2.56	0.47
3:AB:59:ALA:CA	3:AB:157:VAL:HG11	2.43	0.47
5:AD:63:ASP:O	5:AD:67:PRO:HG2	2.14	0.47
6:AE:217:ILE:HG23	6:AE:218:GLY:N	2.29	0.47
7:AG:88:ILE:O	7:AG:88:ILE:HG23	2.13	0.47
9:AI:50:PRO:HB3	9:AI:115:LEU:CD1	2.45	0.47
10:AJ:62:VAL:HG13	10:AJ:83:GLU:HG2	1.95	0.47
11:AK:24:ASP:HB2	11:AK:53:GLU:HB3	1.96	0.47
11:AK:92:THR:OG1	11:AK:93:PRO:HD2	2.14	0.47
15:AO:75:LYS:HD2	15:AO:75:LYS:C	2.35	0.47
18:B3:27:U:O2'	18:B3:1318:A:H3'	2.14	0.47
18:B3:136:C:H2'	18:B3:137:U:O4'	2.14	0.47
18:B3:154:C:OP1	31:BL:190:TRP:HZ2	1.97	0.47
18:B3:637:C:H2'	18:B3:638:C:C6	2.50	0.47
18:B3:1056:U:N3	18:B3:2494:G:H1'	2.29	0.47
18:B3:1183:C:C3'	30:BK:85:LEU:CD1	2.93	0.47
18:B3:1287:A:N1	25:BF:106:ARG:NE	2.58	0.47
18:B3:1371:U:OP1	33:BN:66:ILE:CD1	2.62	0.47
18:B3:1708:C:C5	35:BP:81:LYS:HB2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1815:A:C4	18:B3:2734:G:C6	3.02	0.47
18:B3:2255:A:O2'	18:B3:2256:G:H5'	2.14	0.47
18:B3:2473:U:O3'	18:B3:2474:A:H3'	2.14	0.47
18:B3:2489:G:O3'	18:B3:2490:A:N7	2.47	0.47
18:B3:2578:G:O2'	18:B3:2680:A:H5'	2.14	0.47
20:BA:53:LEU:CD2	20:BA:189:PHE:CD1	2.95	0.47
20:BA:179:LEU:HD12	20:BA:183:ILE:HD11	1.97	0.47
21:BB:1:GLY:H1	21:BB:206:VAL:HB	1.79	0.47
21:BB:28:LEU:HB2	21:BB:122:ARG:HH21	1.79	0.47
21:BB:136:ILE:O	21:BB:146:ARG:HG3	2.15	0.47
22:BC:26:ALA:CB	22:BC:217:ILE:HG12	2.44	0.47
22:BC:45:PHE:O	22:BC:338:ARG:HD3	2.13	0.47
22:BC:228:VAL:CA	22:BC:232:TRP:CZ2	2.98	0.47
22:BC:316:ILE:HG22	22:BC:317:LYS:N	2.29	0.47
23:BD:233:ASN:O	23:BD:237:LEU:HG	2.13	0.47
24:BE:46:THR:CG2	24:BE:49:TYR:HB2	2.40	0.47
24:BE:64:ILE:HG21	24:BE:109:THR:HG1	1.79	0.47
25:BF:82:LEU:CD1	25:BF:137:TYR:CD2	2.97	0.47
25:BF:100:LYS:HZ2	25:BF:104:LEU:HD22	1.78	0.47
26:BG:138:VAL:HG13	26:BG:139:VAL:N	2.30	0.47
27:BH:159:ALA:O	27:BH:160:ASP:HB3	2.14	0.47
28:BI:152:LEU:N	28:BI:154:ARG:HE	2.12	0.47
29:BJ:16:LEU:HD11	29:BJ:75:ALA:HB3	1.95	0.47
32:BM:55:ASP:H	32:BM:58:ARG:CB	2.26	0.47
33:BN:25:PHE:CD1	33:BN:143:SER:HB3	2.48	0.47
36:BQ:18:ASP:HB3	36:BQ:19:PHE:H	1.34	0.47
37:BR:27:ASP:HB2	37:BR:113:ALA:O	2.14	0.47
37:BR:32:ARG:HB3	37:BR:65:GLY:HA2	1.96	0.47
37:BR:34:LEU:HD13	37:BR:34:LEU:N	2.13	0.47
41:BV:52:PHE:HD1	41:BV:52:PHE:HA	1.32	0.47
41:BV:75:ASP:OD1	41:BV:114:LYS:HD2	2.14	0.47
41:BV:135:GLU:CB	41:BV:136:LYS:HZ3	2.20	0.47
44:BX:12:LYS:HG2	44:BX:16:GLN:HG2	1.96	0.47
45:BY:37:GLY:H	45:BY:44:ARG:CG	2.27	0.47
46:BZ:2:ASN:O	46:BZ:3:VAL:HG13	2.15	0.47
46:BZ:66:LYS:H	46:BZ:86:ARG:CD	2.27	0.47
1:AA:45:U:H4'	1:AA:307:C:O2'	2.14	0.47
1:AA:132:C:H2'	1:AA:262:A:N3	2.30	0.47
1:AA:149:A:H2'	1:AA:150:C:C6	2.50	0.47
1:AA:180:U:H2'	1:AA:181:G:H5'	1.95	0.47
1:AA:319:G:C2	1:AA:1434:A:C4	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:362:G:HO2'	12:AL:78:LYS:HD2	1.77	0.47
1:AA:404:U:O4	5:AD:70:LEU:CD2	2.61	0.47
1:AA:411:A:C6	1:AA:429:U:C4	3.03	0.47
1:AA:474:G:O2'	1:AA:475:G:H5'	2.14	0.47
1:AA:677:U:N3	11:AK:123:ASP:HA	2.30	0.47
1:AA:686:U:O4	1:AA:703:G:H1'	2.14	0.47
1:AA:740:U:O4'	15:AO:100:HIS:CE1	2.68	0.47
1:AA:818:G:H3'	1:AA:819:A:H5"	1.88	0.47
1:AA:848:C:H2'	1:AA:849:C:H6	1.78	0.47
1:AA:952:U:O2'	1:AA:953:G:H5'	2.15	0.47
1:AA:1044:A:O2'	1:AA:1045:C:H5'	2.15	0.47
1:AA:1051:C:O2'	1:AA:1052:U:H5'	2.14	0.47
1:AA:1068:G:OP1	1:AA:1388:C:C4'	2.63	0.47
1:AA:1128:C:H2'	1:AA:1129:C:C5'	2.41	0.47
1:AA:1196:U:H4'	1:AA:1197:G:OP2	2.14	0.47
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.29	0.47
1:AA:1279:A:O2'	1:AA:1282:C:N4	2.48	0.47
1:AA:1483:A:O2'	18:B3:1988:C:O2	2.32	0.47
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.15	0.47
2:AT:111:PHE:CE1	2:AT:141:THR:HG23	2.50	0.47
2:AT:749:LYS:CE	18:B3:2508:C:C6	2.85	0.47
3:AB:13:ALA:O	3:AB:14:GLN:HG3	2.15	0.47
3:AB:114:PHE:CD2	3:AB:115:LYS:N	2.82	0.47
4:AC:67:GLU:HG2	4:AC:71:LEU:HD13	1.95	0.47
4:AC:114:ILE:CG1	4:AC:137:VAL:HG21	2.44	0.47
4:AC:164:ASN:ND2	4:AC:192:ALA:HB3	2.28	0.47
5:AD:91:LYS:O	6:AE:174:GLY:C	2.53	0.47
5:AD:109:LEU:HD21	5:AD:134:ILE:HG21	1.96	0.47
5:AD:156:ILE:HD13	5:AD:157:ASP:H	1.79	0.47
5:AD:168:ARG:HB3	5:AD:169:PRO:CD	2.45	0.47
6:AE:149:GLN:HB2	6:AE:152:SER:O	2.15	0.47
7:AG:114:LYS:O	7:AG:114:LYS:HD3	2.15	0.47
8:AH:40:MET:HG3	8:AH:46:ILE:HG12	1.97	0.47
8:AH:80:VAL:HG12	8:AH:87:LYS:HG3	1.95	0.47
9:AI:34:PRO:HD2	9:AI:37:LEU:HD22	1.96	0.47
9:AI:56:LEU:HD12	9:AI:56:LEU:N	2.29	0.47
9:AI:97:ASP:CB	9:AI:102:ASN:HB3	2.44	0.47
9:AI:98:GLU:HB3	9:AI:103:GLU:CA	2.40	0.47
10:AJ:70:THR:CA	14:AN:42:PHE:HB2	2.02	0.47
11:AK:63:ALA:CB	11:AK:103:ALA:HB3	2.45	0.47
11:AK:88:THR:HG22	11:AK:94:GLY:HA3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:93:PRO:C	11:AK:95:PRO:HD3	2.34	0.47
11:AK:111:ILE:HD12	11:AK:114:ILE:CD1	2.42	0.47
12:AL:67:ALA:HB3	12:AL:69:ARG:HE	1.79	0.47
12:AL:76:LEU:HD11	12:AL:104:LEU:HD22	1.95	0.47
12:AL:142:LYS:HD2	12:AL:143:PRO:N	2.30	0.47
13:AM:86:LEU:CD1	13:AM:88:ARG:H	2.28	0.47
18:B3:90:A:H2'	18:B3:91:G:O4'	2.14	0.47
18:B3:124:C:P	39:BT:88:LYS:NZ	2.88	0.47
18:B3:266:G:OP1	31:BL:144:ASP:CG	2.53	0.47
18:B3:393:G:O2'	18:B3:394:G:H5'	2.14	0.47
18:B3:501:G:C2'	33:BN:15:SER:H	2.26	0.47
18:B3:516:A:C2	18:B3:1318:A:N1	2.83	0.47
18:B3:540:A:OP1	42:B0:18:LYS:CA	2.60	0.47
18:B3:643:A:N3	23:BD:86:GLN:OE1	2.47	0.47
18:B3:677:C:N1	23:BD:231:SER:N	2.63	0.47
18:B3:1090:A:O5'	42:B0:55:ILE:HD12	2.13	0.47
18:B3:1117:A:C8	18:B3:1226:G:C8	2.57	0.47
18:B3:1172:G:H5"	30:BK:40:LYS:NZ	2.30	0.47
18:B3:1244:U:H6	32:BM:43:SER:OG	1.98	0.47
18:B3:1305:C:H3'	23:BD:194:ARG:CZ	2.44	0.47
18:B3:1382:G:HO2'	43:BW:26:LYS:HD2	1.79	0.47
18:B3:1552:G:H2'	18:B3:1553:C:C6	2.50	0.47
18:B3:2019:A:C1'	47:B9:17:TYR:OH	2.62	0.47
18:B3:2037:C:H5"	37:BR:47:ASN:C	2.34	0.47
18:B3:2133:U:N3	18:B3:2259:C:OP2	2.45	0.47
18:B3:2171:C:H2'	18:B3:2203:A:O4'	2.14	0.47
18:B3:2283:G:O5'	28:BI:114:GLY:CA	2.58	0.47
18:B3:2309:C:O2'	28:BI:115:MET:N	2.48	0.47
18:B3:2338:G:OP2	29:BJ:102:GLY:C	2.53	0.47
18:B3:2346:C:H1'	29:BJ:65:ALA:C	2.16	0.47
18:B3:2398:A:H2'	18:B3:2399:G:O4'	2.14	0.47
18:B3:2413:A:H2	24:BE:145:PHE:CE2	2.26	0.47
18:B3:2458:U:O2'	46:BZ:66:LYS:HB2	2.15	0.47
18:B3:2581:U:H1'	18:B3:2600:A:C2	2.49	0.47
18:B3:2672:C:H2'	18:B3:2673:U:H6	1.79	0.47
18:B3:2697:A:H2'	18:B3:2698:G:C8	2.50	0.47
18:B3:2712:G:H5'	37:BR:42:SER:HB2	1.81	0.47
18:B3:2821:C:C5'	22:BC:103:THR:C	2.73	0.47
18:B3:2831:C:H2'	18:B3:2832:C:H5'	1.96	0.47
18:B3:2841:A:C2	33:BN:68:ARG:CB	2.96	0.47
18:B3:2897:C:O2'	18:B3:2898:G:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:111:ILE:HG22	21:BB:166:GLY:HA2	1.95	0.47
21:BB:126:ALA:HA	21:BB:127:ARG:NH1	2.29	0.47
21:BB:195:TRP:CH2	21:BB:197:LYS:CB	2.95	0.47
21:BB:221:ALA:O	21:BB:222:SER:HB2	2.14	0.47
21:BB:233:LYS:HZ2	21:BB:234:ALA:HB2	1.79	0.47
22:BC:45:PHE:CE2	22:BC:202:VAL:HG23	2.50	0.47
22:BC:84:VAL:HG22	22:BC:162:HIS:CE1	2.50	0.47
22:BC:89:VAL:HG21	22:BC:91:TYR:OH	2.15	0.47
22:BC:119:LYS:HG2	22:BC:119:LYS:O	2.14	0.47
22:BC:168:THR:CG2	22:BC:171:ALA:HB3	2.43	0.47
22:BC:232:TRP:CH2	22:BC:265:ARG:N	2.82	0.47
22:BC:274:ARG:HD3	22:BC:274:ARG:N	2.29	0.47
22:BC:302:LYS:CD	22:BC:305:THR:HB	2.45	0.47
22:BC:313:TYR:CD2	22:BC:313:TYR:N	2.77	0.47
22:BC:316:ILE:HD12	22:BC:320:PHE:HE1	1.78	0.47
23:BD:7:VAL:HG22	23:BD:8:HIS:N	2.30	0.47
23:BD:130:VAL:CG1	23:BD:134:VAL:CG2	2.93	0.47
23:BD:198:TRP:CG	23:BD:199:THR:N	2.83	0.47
23:BD:229:VAL:HG21	23:BD:255:THR:C	2.34	0.47
24:BE:21:ARG:HB3	24:BE:22:ARG:H	1.22	0.47
24:BE:107:ARG:H	24:BE:110:LEU:CB	2.24	0.47
24:BE:146:LEU:CD1	24:BE:163:LEU:HD12	2.44	0.47
25:BF:83:VAL:HG22	25:BF:84:PHE:H	1.80	0.47
25:BF:132:TYR:HB3	25:BF:133:VAL:HG13	1.97	0.47
27:BH:18:VAL:CG1	27:BH:26:LYS:HE2	2.44	0.47
27:BH:124:ARG:HH11	27:BH:125:ASN:H	1.61	0.47
27:BH:126:VAL:HB	27:BH:127:PRO:CA	2.44	0.47
28:BI:17:TYR:HA	28:BI:18:PRO:C	2.35	0.47
29:BJ:48:LYS:CG	29:BJ:49:ALA:H	2.28	0.47
29:BJ:83:LEU:O	29:BJ:84:LYS:HB3	2.14	0.47
31:BL:139:LYS:O	31:BL:140:ALA:HB3	2.14	0.47
31:BL:175:LYS:HG3	31:BL:176:GLY:N	2.29	0.47
31:BL:183:LYS:HE2	31:BL:192:ARG:HB3	1.96	0.47
33:BN:104:LYS:HD3	33:BN:105:GLY:H	1.76	0.47
33:BN:137:LYS:HD2	33:BN:137:LYS:N	2.14	0.47
34:BO:59:ARG:HD3	34:BO:60:PRO:HG3	1.97	0.47
35:BP:21:VAL:CG2	35:BP:22:TRP:CE2	2.95	0.47
35:BP:88:LEU:HD23	35:BP:88:LEU:N	2.28	0.47
37:BR:46:LEU:HD13	37:BR:46:LEU:N	2.29	0.47
37:BR:66:LYS:HB2	37:BR:67:PRO:CD	2.44	0.47
37:BR:130:ALA:O	37:BR:131:SER:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BT:96:LYS:HE3	39:BT:96:LYS:CA	2.38	0.47
41:BV:78:TRP:CD1	41:BV:117:ILE:CD1	2.94	0.47
41:BV:92:SER:O	41:BV:93:ALA:HB3	2.15	0.47
41:BV:114:LYS:HD2	41:BV:115:GLY:N	2.30	0.47
42:B0:30:GLU:HG2	42:B0:31:ASN:N	2.29	0.47
43:BW:16:HIS:CG	43:BW:17:LYS:H	2.32	0.47
43:BW:22:VAL:HG12	43:BW:24:PHE:N	2.29	0.47
44:BX:17:LEU:HD21	44:BX:54:VAL:CG2	2.43	0.47
45:BY:17:LEU:HD12	45:BY:17:LEU:C	2.34	0.47
47:B9:67:ALA:HB3	47:B9:68:TYR:CD1	2.49	0.47
47:B9:68:TYR:CD1	47:B9:68:TYR:N	2.78	0.47
1:AA:299:G:N2	1:AA:565:U:O2	2.38	0.47
1:AA:519:C:OP2	12:AL:67:ALA:N	2.44	0.47
1:AA:934:C:C4	1:AA:1345:U:C5	3.03	0.47
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.50	0.47
1:AA:1331:G:HO2'	1:AA:1332:A:P	2.37	0.47
1:AA:1483:A:H2'	18:B3:2001:G:N9	2.29	0.47
1:AA:1504:G:OP1	1:AA:1507:A:H8	1.98	0.47
2:AT:129:VAL:HG11	2:AT:181:THR:HG23	1.97	0.47
2:AT:464:LEU:HD12	2:AT:509:LYS:HB2	1.94	0.47
5:AD:102:GLU:HA	5:AD:190:GLU:CA	2.44	0.47
5:AD:104:PHE:O	5:AD:107:ARG:HB3	2.14	0.47
5:AD:165:GLY:C	5:AD:167:ALA:H	2.18	0.47
5:AD:171:ARG:HG2	5:AD:172:VAL:N	2.29	0.47
8:AH:10:LEU:HD22	8:AH:77:ARG:CD	2.45	0.47
9:AI:97:ASP:HB2	9:AI:103:GLU:CA	2.45	0.47
9:AI:99:GLN:HE22	9:AI:115:LEU:HD12	1.80	0.47
10:AJ:25:THR:OG1	10:AJ:88:LYS:HD2	2.13	0.47
12:AL:59:ILE:HD11	12:AL:117:ILE:CG2	2.45	0.47
13:AM:113:LEU:HD12	13:AM:113:LEU:H	1.79	0.47
14:AN:37:ILE:CG2	14:AN:41:CYS:H	2.18	0.47
18:B3:34:C:C2'	23:BD:49:TYR:HA	2.44	0.47
18:B3:487:G:H3'	40:BU:90:VAL:CG2	2.43	0.47
18:B3:621:C:P	42:B0:40:SER:OG	2.73	0.47
18:B3:1184:A:O2'	30:BK:86:LYS:CB	2.63	0.47
18:B3:1232:A:OP2	18:B3:2524:G:H5'	2.15	0.47
18:B3:1241:G:N2	32:BM:86:MET:HG2	2.28	0.47
18:B3:1607:A:H2'	18:B3:1608:G:O4'	2.15	0.47
18:B3:1785:G:HO2'	18:B3:2733:U:P	2.35	0.47
18:B3:1853:C:O4'	21:BB:237:ILE:CG1	2.62	0.47
18:B3:1874:U:P	21:BB:127:ARG:CB	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1878:G:O2'	18:B3:1879:U:OP2	2.32	0.47
18:B3:2312:G:C4'	28:BI:22:TYR:CD1	2.94	0.47
18:B3:2382:A:C5	46:BZ:10:TYR:CE2	3.02	0.47
18:B3:2557:U:O4	18:B3:2800:A:N6	2.47	0.47
18:B3:2580:G:OP1	18:B3:2680:A:N7	2.48	0.47
18:B3:2827:A:H3'	22:BC:129:PHE:CD1	2.46	0.47
18:B3:2836:G:H4'	18:B3:2837:U:OP1	2.15	0.47
19:B4:69:U:C1'	24:BE:14:SER:HB2	2.32	0.47
19:B4:96:C:H2'	19:B4:97:U:C6	2.50	0.47
20:BA:12:HIS:NE2	20:BA:205:VAL:HA	2.30	0.47
20:BA:49:PHE:CE1	20:BA:51:GLY:CA	2.98	0.47
21:BB:89:ALA:CB	21:BB:100:VAL:CG2	2.93	0.47
21:BB:102:PRO:CG	21:BB:162:ARG:HA	2.44	0.47
21:BB:134:ILE:H	21:BB:148:ARG:HB2	1.79	0.47
21:BB:138:HIS:CD2	21:BB:145:THR:CB	2.98	0.47
21:BB:145:THR:O	21:BB:145:THR:HG23	2.15	0.47
21:BB:148:ARG:HA	21:BB:153:ALA:O	2.14	0.47
21:BB:233:LYS:HD2	21:BB:234:ALA:CB	2.44	0.47
22:BC:41:ALA:H	22:BC:182:LEU:CB	2.27	0.47
23:BD:64:TRP:CZ3	23:BD:68:ARG:N	2.83	0.47
23:BD:88:ALA:H	23:BD:92:MET:HB3	1.79	0.47
23:BD:192:LYS:CE	23:BD:193:TYR:HB3	2.44	0.47
24:BE:35:ARG:CZ	24:BE:35:ARG:CA	2.90	0.47
24:BE:95:TRP:CD1	24:BE:158:ARG:HG2	2.49	0.47
25:BF:115:PHE:CZ	25:BF:187:ILE:HG22	2.50	0.47
25:BF:221:HIS:CD2	25:BF:223:ILE:H	2.31	0.47
25:BF:231:ARG:CB	25:BF:234:PHE:CD1	2.95	0.47
26:BG:114:ALA:O	26:BG:149:LEU:HB3	2.15	0.47
26:BG:126:PRO:CG	26:BG:131:VAL:HG11	2.26	0.47
26:BG:128:PRO:HB2	26:BG:204:ALA:HB3	1.96	0.47
26:BG:135:LEU:CA	26:BG:138:VAL:HG12	2.45	0.47
26:BG:184:ARG:NE	26:BG:184:ARG:HA	2.30	0.47
27:BH:34:LEU:HD11	27:BH:149:ASN:HB2	1.97	0.47
27:BH:69:ARG:HB3	27:BH:69:ARG:HH11	1.79	0.47
28:BI:99:ILE:HD11	28:BI:121:LYS:CE	2.45	0.47
28:BI:152:LEU:HA	28:BI:155:ALA:HB2	1.88	0.47
28:BI:167:LEU:HD13	28:BI:168:SER:C	2.35	0.47
31:BL:82:LYS:HG3	46:BZ:48:GLY:HA3	1.97	0.47
31:BL:158:ARG:NE	31:BL:159:GLU:HB2	2.30	0.47
32:BM:35:VAL:HG11	32:BM:110:PRO:HD2	1.96	0.47
32:BM:82:ALA:O	32:BM:86:MET:HE2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:126:ARG:HB2	33:BN:137:LYS:CA	2.45	0.47
35:BP:21:VAL:CG2	35:BP:22:TRP:CZ2	2.92	0.47
36:BQ:95:HIS:CD2	36:BQ:96:ILE:H	2.33	0.47
39:BT:66:ILE:O	39:BT:66:ILE:HG23	2.15	0.47
39:BT:72:MET:HA	39:BT:75:VAL:HG22	1.96	0.47
42:B0:17:PHE:CD2	42:B0:32:TRP:CB	2.95	0.47
46:BZ:74:VAL:HG23	46:BZ:77:LYS:HZ1	1.79	0.47
1:AA:382:A:H2'	1:AA:383:A:H8	1.74	0.47
1:AA:678:U:C2'	11:AK:125:THR:HG21	2.33	0.47
1:AA:691:G:O2'	1:AA:797:C:H4'	2.14	0.47
1:AA:768:A:H2'	1:AA:769:G:O4'	2.14	0.47
1:AA:1068:G:OP1	1:AA:1388:C:H4'	2.14	0.47
1:AA:1111:A:N6	4:AC:161:GLN:CD	2.67	0.47
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.50	0.47
1:AA:1148:U:C4'	9:AI:9:PHE:HZ	2.28	0.47
1:AA:1176:A:C2'	9:AI:107:ALA:C	2.83	0.47
1:AA:1302:U:H2'	13:AM:54:LEU:HD22	1.96	0.47
2:AT:108:HIS:CE1	2:AT:540:ILE:CG1	2.88	0.47
2:AT:576:LEU:HD21	2:AT:585:ARG:HH11	1.80	0.47
2:AT:584:ASN:HD21	2:AT:700:ARG:HG2	1.79	0.47
3:AB:122:VAL:CG2	3:AB:128:ASP:CB	2.93	0.47
3:AB:141:PRO:CD	8:AH:68:LEU:CD1	2.90	0.47
4:AC:58:LEU:CD1	4:AC:62:GLY:HA2	2.44	0.47
5:AD:99:LEU:HD22	5:AD:101:VAL:C	2.35	0.47
7:AG:138:ASN:OD1	7:AG:202:LYS:HB2	2.15	0.47
7:AG:157:GLN:HA	7:AG:157:GLN:NE2	2.29	0.47
8:AH:82:ILE:HD11	8:AH:85:ILE:HG23	1.94	0.47
10:AJ:22:ILE:CG2	10:AJ:116:VAL:HG11	2.45	0.47
11:AK:56:PRO:CD	11:AK:57:TYR:H	2.28	0.47
14:AN:22:VAL:HG12	14:AN:36:ASN:H	1.79	0.47
16:AQ:133:THR:N	16:AQ:135:ARG:HH21	2.11	0.47
18:B3:162:C:C2'	18:B3:163:U:H5'	2.43	0.47
18:B3:295:C:O2'	18:B3:296:G:H5'	2.15	0.47
18:B3:391:U:C2'	31:BL:195:THR:HG22	2.45	0.47
18:B3:471:G:O3'	45:BY:34:SER:OG	2.32	0.47
18:B3:745:G:C6	34:BO:91:ALA:CB	2.59	0.47
18:B3:857:A:O2'	18:B3:858:U:OP1	2.27	0.47
18:B3:894:A:P	23:BD:57:HIS:CD2	3.07	0.47
18:B3:952:G:N3	18:B3:2302:A:H2'	2.30	0.47
18:B3:999:C:O2'	18:B3:1000:C:H5'	2.15	0.47
18:B3:1114:A:H2'	18:B3:1115:U:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1675:C:C5'	39:BT:87:MET:CE	2.92	0.47
18:B3:1797:A:O3'	35:BP:70:ARG:NE	2.47	0.47
18:B3:1808:C:C5	18:B3:2884:G:O3'	2.68	0.47
18:B3:2242:U:H3	18:B3:2257:G:N2	2.13	0.47
18:B3:2275:G:H4'	31:BL:80:TYR:O	2.15	0.47
18:B3:2718:C:P	22:BC:331:ARG:CZ	3.02	0.47
20:BA:49:PHE:CE1	20:BA:51:GLY:N	2.83	0.47
21:BB:2:ARG:HB2	21:BB:2:ARG:CZ	2.45	0.47
21:BB:10:GLY:N	21:BB:15:PHE:CD2	2.83	0.47
21:BB:48:VAL:HG22	21:BB:59:LYS:CE	2.43	0.47
21:BB:119:PRO:HB3	21:BB:160:ASP:CG	2.35	0.47
21:BB:180:LYS:HD3	21:BB:180:LYS:H	1.79	0.47
22:BC:109:LEU:HD13	22:BC:109:LEU:O	2.15	0.47
22:BC:121:TRP:CZ2	22:BC:123:LYS:CD	2.97	0.47
22:BC:168:THR:HG22	22:BC:171:ALA:HB3	1.96	0.47
22:BC:173:LYS:NZ	22:BC:174:LYS:HB2	2.29	0.47
23:BD:75:ARG:CG	23:BD:81:THR:H	2.22	0.47
23:BD:106:ARG:HD3	23:BD:108:TRP:N	2.29	0.47
24:BE:43:LYS:HG2	24:BE:44:TYR:N	2.29	0.47
24:BE:111:GLN:N	24:BE:115:LEU:HG	2.30	0.47
25:BF:82:LEU:HD13	25:BF:82:LEU:N	2.30	0.47
26:BG:150:VAL:CA	26:BG:198:ALA:HB1	2.45	0.47
26:BG:163:VAL:HG13	31:BL:5:TYR:CE2	2.50	0.47
26:BG:182:LYS:C	26:BG:194:SER:HB3	2.35	0.47
27:BH:10:ILE:C	27:BH:52:LEU:HD23	2.35	0.47
27:BH:100:ASN:O	27:BH:114:VAL:HA	2.15	0.47
27:BH:129:ARG:CG	27:BH:153:ASP:HB2	2.43	0.47
28:BI:103:LEU:HB2	28:BI:118:ALA:CA	2.44	0.47
28:BI:105:CYS:HB3	28:BI:115:MET:HE1	1.88	0.47
28:BI:121:LYS:HB2	28:BI:121:LYS:NZ	2.30	0.47
29:BJ:71:ARG:HD2	29:BJ:75:ALA:H	1.80	0.47
29:BJ:83:LEU:HD21	29:BJ:90:LEU:CD2	2.44	0.47
29:BJ:169:ASP:O	29:BJ:170:VAL:HB	2.15	0.47
33:BN:63:ASN:N	33:BN:63:ASN:HD22	2.13	0.47
34:BO:45:ASN:HA	34:BO:48:VAL:HG11	1.96	0.47
34:BO:102:ALA:HA	34:BO:122:ILE:O	2.15	0.47
34:BO:123:THR:O	34:BO:124:LEU:HB3	2.14	0.47
35:BP:22:TRP:CZ2	35:BP:49:ILE:CG2	2.91	0.47
36:BQ:68:THR:O	36:BQ:68:THR:HG23	2.14	0.47
37:BR:136:VAL:O	37:BR:137:VAL:HB	2.14	0.47
39:BT:85:VAL:HG22	39:BT:86:SER:N	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BW:59:TRP:CH2	43:BW:66:VAL:CG2	2.93	0.47
44:BX:45:LYS:HD3	44:BX:45:LYS:O	2.15	0.47
46:BZ:65:LYS:HA	46:BZ:66:LYS:HE3	1.97	0.47
1:AA:6:G:C2'	6:AE:196:TYR:HE2	2.25	0.47
1:AA:111:G:C2'	1:AA:389:A:C4'	2.66	0.47
1:AA:439:A:C4	1:AA:497:A:C2	3.03	0.47
1:AA:518:C:H5"	1:AA:519:C:H6	1.77	0.47
1:AA:956:U:C2'	17:AS:126:VAL:HG11	2.45	0.47
1:AA:1111:A:H61	4:AC:161:GLN:NE2	2.12	0.47
1:AA:1219:U:N3	17:AS:77:ARG:O	2.41	0.47
1:AA:1249:C:H1'	9:AI:73:HIS:CE1	2.34	0.47
1:AA:1372:U:O2'	1:AA:1373:G:H5'	2.16	0.47
2:AT:644:ASN:ND2	2:AT:684:VAL:H	2.13	0.47
3:AB:31:HIS:CD2	8:AH:21:LYS:HG2	2.50	0.47
3:AB:67:PRO:CB	3:AB:183:LEU:HD23	2.43	0.47
3:AB:75:ILE:HG23	3:AB:122:VAL:CG2	2.36	0.47
4:AC:69:THR:HG23	4:AC:70:LEU:N	2.30	0.47
4:AC:139:GLY:O	4:AC:181:LEU:HD23	2.15	0.47
5:AD:99:LEU:HD13	5:AD:101:VAL:C	2.34	0.47
5:AD:150:LEU:HD23	5:AD:189:ASP:HA	1.96	0.47
9:AI:9:PHE:CE2	9:AI:16:THR:HB	2.47	0.47
9:AI:18:VAL:HG23	9:AI:67:ARG:H	1.79	0.47
9:AI:28:ILE:HD13	9:AI:48:TYR:CE1	2.47	0.47
11:AK:29:VAL:HG12	11:AK:30:THR:N	2.30	0.47
12:AL:29:TYR:CB	12:AL:30:LYS:HD2	2.45	0.47
12:AL:68:ILE:HG23	12:AL:70:LYS:NZ	2.29	0.47
12:AL:76:LEU:HD22	12:AL:76:LEU:H	1.79	0.47
13:AM:42:TYR:CD1	13:AM:42:TYR:N	2.83	0.47
16:AQ:131:SER:C	16:AQ:134:VAL:HG12	2.34	0.47
18:B3:53:C:O4'	18:B3:121:U:C3'	2.56	0.47
18:B3:264:G:O6	26:BG:136:ASN:HB2	2.16	0.47
18:B3:618:G:N3	42:B0:49:ASN:CA	2.77	0.47
18:B3:618:G:N3	42:B0:49:ASN:N	2.63	0.47
18:B3:924:G:C5	41:BV:41:ARG:CG	2.81	0.47
18:B3:1277:C:O2'	34:BO:31:LYS:CD	2.60	0.47
18:B3:1496:G:H5'	18:B3:1572:A:H1'	1.97	0.47
18:B3:1865:A:H2'	18:B3:1866:A:C8	2.50	0.47
18:B3:1993:C:N4	37:BR:35:TYR:CZ	2.81	0.47
18:B3:2072:G:C4'	18:B3:2490:A:O2'	2.61	0.47
18:B3:2266:A:H2'	18:B3:2267:G:H8	1.79	0.47
18:B3:2320:U:H4'	18:B3:2321:A:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2460:A:C2'	46:BZ:60:LYS:HD2	2.43	0.47
18:B3:2713:G:P	37:BR:44:SER:CA	3.03	0.47
18:B3:2780:C:HO2'	27:BH:159:ALA:HB2	1.74	0.47
18:B3:2818:A:H5'	22:BC:97:GLY:N	2.30	0.47
18:B3:2818:A:C8	22:BC:99:ARG:HA	2.50	0.47
18:B3:2828:G:C4	22:BC:129:PHE:CD2	2.97	0.47
18:B3:2913:A:N6	22:BC:123:LYS:HE2	2.29	0.47
20:BA:41:TYR:CZ	20:BA:163:LEU:HD23	2.49	0.47
20:BA:63:MET:HE3	20:BA:159:LEU:O	2.10	0.47
20:BA:97:LYS:CA	20:BA:100:ILE:HG22	2.45	0.47
21:BB:46:GLN:HG3	21:BB:59:LYS:HD3	1.97	0.47
21:BB:201:VAL:HG12	21:BB:216:GLN:CD	2.33	0.47
22:BC:118:TYR:CE2	22:BC:133:SER:N	2.82	0.47
22:BC:226:GLU:CG	22:BC:227:GLY:H	2.28	0.47
22:BC:359:ASP:CB	38:BS:16:GLY:N	2.77	0.47
22:BC:359:ASP:HA	38:BS:16:GLY:N	2.22	0.47
23:BD:37:VAL:HG23	23:BD:234:LEU:CD2	2.41	0.47
23:BD:176:ASP:OD1	23:BD:205:LEU:HD12	2.15	0.47
23:BD:202:ARG:H	23:BD:202:ARG:HH11	1.63	0.47
24:BE:49:TYR:CG	24:BE:50:ARG:N	2.82	0.47
25:BF:124:GLU:O	25:BF:128:LEU:HG	2.14	0.47
27:BH:87:LYS:HA	27:BH:146:LEU:O	2.15	0.47
28:BI:34:TYR:CB	28:BI:89:VAL:CG2	2.93	0.47
29:BJ:16:LEU:HD22	29:BJ:70:VAL:HG12	1.96	0.47
29:BJ:83:LEU:HD21	29:BJ:90:LEU:HD21	1.97	0.47
31:BL:19:ARG:O	31:BL:22:GLN:HB3	2.15	0.47
31:BL:74:VAL:HG22	31:BL:75:PRO:N	2.28	0.47
33:BN:90:VAL:HG13	33:BN:93:LEU:HD21	1.96	0.47
36:BQ:72:VAL:CG1	36:BQ:91:LEU:HD12	2.44	0.47
37:BR:54:LEU:HD12	37:BR:78:VAL:HG22	1.94	0.47
37:BR:86:ARG:CG	37:BR:87:ARG:N	2.78	0.47
37:BR:125:LEU:O	37:BR:126:TRP:HD1	1.98	0.47
40:BU:35:LEU:HD21	40:BU:43:TYR:OH	2.15	0.47
41:BV:14:VAL:O	41:BV:14:VAL:HG13	2.14	0.47
41:BV:78:TRP:HB3	41:BV:117:ILE:HD13	1.95	0.47
41:BV:126:ALA:HA	41:BV:146:LEU:HG	1.95	0.47
43:BW:78:ARG:C	43:BW:78:ARG:HD3	2.35	0.47
46:BZ:44:ARG:HD2	46:BZ:45:LYS:N	2.29	0.47
47:B9:26:LYS:H	47:B9:28:LEU:CD1	2.28	0.47
47:B9:47:LYS:CE	47:B9:48:ARG:H	2.27	0.47
47:B9:56:CYS:HB3	47:B9:61:LYS:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:525:C:HO2'	1:AA:526:C:H5'	1.80	0.46
1:AA:620:C:O4'	5:AD:129:ILE:CG2	2.63	0.46
1:AA:909:A:H2'	1:AA:910:C:O4'	2.15	0.46
1:AA:925:G:C5'	1:AA:1399:C:P	2.89	0.46
1:AA:950:U:C6	13:AM:140:THR:HB	2.47	0.46
1:AA:1180:A:O4'	9:AI:117:ILE:HD11	2.14	0.46
1:AA:1302:U:H5	13:AM:52:VAL:O	1.98	0.46
1:AA:1344:C:C5'	9:AI:136:ARG:CB	2.92	0.46
1:AA:1406:U:C2	1:AA:1518:A:H5'	2.50	0.46
1:AA:1451:A:O2'	1:AA:1452:C:OP1	2.30	0.46
2:AT:21:ASN:ND2	2:AT:345:PRO:HG3	2.29	0.46
2:AT:394:PHE:N	2:AT:394:PHE:CD2	2.83	0.46
2:AT:491:VAL:HA	2:AT:559:PRO:HD3	1.96	0.46
3:AB:89:ALA:HB1	3:AB:96:PRO:HD3	1.97	0.46
4:AC:39:ARG:H	4:AC:46:GLU:HB2	1.78	0.46
5:AD:110:GLN:HG3	5:AD:126:ARG:CA	2.45	0.46
9:AI:52:LEU:HD23	9:AI:57:ASP:OD1	2.15	0.46
13:AM:49:LYS:HA	13:AM:49:LYS:CE	2.45	0.46
16:AQ:87:ARG:CD	16:AQ:89:TYR:CD1	2.99	0.46
17:AS:58:LYS:HG2	17:AS:59:LYS:H	1.78	0.46
18:B3:391:U:C3'	31:BL:195:THR:O	2.63	0.46
18:B3:499:G:HO2'	33:BN:19:SER:N	2.13	0.46
18:B3:894:A:C5'	23:BD:57:HIS:NE2	2.63	0.46
18:B3:1160:G:N2	18:B3:1206:C:H5	2.07	0.46
18:B3:1672:G:C4'	39:BT:91:LYS:CG	2.93	0.46
18:B3:1690:C:C5	33:BN:128:THR:HG22	2.51	0.46
18:B3:1730:G:C5'	18:B3:1731:C:C6	2.97	0.46
18:B3:1787:C:C2'	18:B3:2882:G:C3'	2.31	0.46
18:B3:2165:G:C2'	20:BA:33:GLU:HB3	2.45	0.46
18:B3:2257:G:H4'	18:B3:2259:C:C2	2.49	0.46
18:B3:2346:C:O4'	29:BJ:64:ILE:CB	2.57	0.46
18:B3:2854:A:P	22:BC:170:LEU:HD12	2.55	0.46
20:BA:44:GLN:HA	20:BA:134:PHE:O	2.14	0.46
20:BA:51:GLY:N	20:BA:54:LYS:HB3	2.29	0.46
21:BB:28:LEU:CD1	21:BB:100:VAL:HG11	2.45	0.46
21:BB:175:ASP:OD2	47:B9:68:TYR:CD1	2.68	0.46
21:BB:226:ARG:HD2	21:BB:227:GLY:CA	2.45	0.46
22:BC:125:LYS:N	22:BC:129:PHE:CZ	2.83	0.46
22:BC:159:VAL:HG12	22:BC:180:ILE:CD1	2.45	0.46
22:BC:231:ARG:CG	22:BC:269:ARG:HH22	2.27	0.46
24:BE:163:LEU:HD23	24:BE:163:LEU:C	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:226:TYR:CD2	24:BE:227:LEU:N	2.83	0.46
25:BF:151:GLY:HA3	25:BF:162:LEU:CD1	2.45	0.46
26:BG:110:LYS:H	26:BG:118:GLY:N	2.05	0.46
26:BG:165:LEU:HB2	26:BG:166:PRO:CD	2.45	0.46
26:BG:185:LEU:CD2	26:BG:199:LEU:HD21	2.45	0.46
27:BH:94:TYR:N	27:BH:94:TYR:CD2	2.82	0.46
27:BH:161:LEU:C	27:BH:164:ILE:HG13	2.35	0.46
29:BJ:16:LEU:CD1	29:BJ:75:ALA:CB	2.93	0.46
29:BJ:95:PHE:CB	29:BJ:101:PHE:N	2.78	0.46
32:BM:35:VAL:HG11	32:BM:109:PRO:CB	2.45	0.46
32:BM:72:PHE:CD1	32:BM:77:ARG:HB3	2.50	0.46
34:BO:67:ILE:CD1	34:BO:140:LEU:HB3	2.45	0.46
35:BP:52:LYS:HG2	35:BP:53:ALA:H	1.78	0.46
37:BR:86:ARG:CD	37:BR:86:ARG:N	2.76	0.46
41:BV:6:LYS:N	41:BV:6:LYS:HD3	2.31	0.46
47:B9:81:THR:O	47:B9:81:THR:HG23	2.14	0.46
1:AA:190(I):G:O2'	1:AA:190(J):U:H5'	2.16	0.46
1:AA:358:U:O3'	2:AT:390:ASP:C	2.54	0.46
1:AA:458:C:H2'	1:AA:459:G:O4'	2.15	0.46
1:AA:606:G:H2'	1:AA:631:G:N2	2.30	0.46
1:AA:633:G:H2'	1:AA:634:C:C6	2.51	0.46
1:AA:820:U:H4'	1:AA:821:G:OP2	2.16	0.46
1:AA:954:G:H2'	1:AA:955:U:H6	1.81	0.46
1:AA:975:A:H4'	1:AA:976:G:H5'	1.96	0.46
1:AA:1051:C:H2'	1:AA:1052:U:C6	2.50	0.46
1:AA:1067:A:H5"	1:AA:1387:G:C4'	2.44	0.46
1:AA:1300:G:O2'	1:AA:1301:U:P	2.73	0.46
1:AA:1321:C:C4	17:AS:117:GLY:N	2.58	0.46
2:AT:114:GLU:CG	2:AT:537:HIS:CE1	2.85	0.46
3:AB:38:ASN:O	3:AB:46:VAL:HG12	2.15	0.46
3:AB:75:ILE:HG23	3:AB:75:ILE:O	2.15	0.46
3:AB:122:VAL:HG21	3:AB:128:ASP:HB3	1.98	0.46
3:AB:139:ASN:C	8:AH:68:LEU:HG	2.35	0.46
4:AC:43:THR:CB	4:AC:81:GLY:HA3	2.43	0.46
7:AG:108:LYS:HD2	7:AG:108:LYS:H	1.81	0.46
10:AJ:52:LYS:CD	10:AJ:91:ILE:CG2	2.93	0.46
12:AL:72:VAL:HG23	12:AL:72:VAL:O	2.14	0.46
13:AM:105:VAL:O	13:AM:108:LYS:HB3	2.14	0.46
17:AS:119:PHE:CD1	17:AS:119:PHE:N	2.83	0.46
18:B3:67:A:O2'	39:BT:60:LYS:CD	2.55	0.46
18:B3:80:A:P	40:BU:74:TYR:OH	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:945:U:C4'	25:BF:125:LEU:HD23	2.45	0.46
18:B3:949:U:C4'	36:BQ:100:LYS:CA	2.93	0.46
18:B3:1015:C:H2'	18:B3:1016:U:C6	2.50	0.46
18:B3:1321:A:H2'	18:B3:1322:G:C8	2.50	0.46
18:B3:1345:A:H2'	18:B3:1346:U:C6	2.51	0.46
18:B3:1347:U:O2'	23:BD:241:ALA:C	2.53	0.46
18:B3:1370:G:H8	33:BN:27:ASN:CG	2.02	0.46
18:B3:1415:G:H8	45:BY:11:HIS:NE2	2.10	0.46
18:B3:1544:U:O2'	18:B3:1545:C:H5'	2.15	0.46
18:B3:1735:C:C5'	22:BC:244:GLY:HA2	2.34	0.46
18:B3:2164:G:OP1	20:BA:162:VAL:CG1	2.56	0.46
18:B3:2238:A:C2'	18:B3:2239:C:H5'	2.45	0.46
18:B3:2334:C:H5"	29:BJ:111:LEU:N	2.30	0.46
18:B3:2436:U:O2'	46:BZ:80:ALA:CB	2.63	0.46
18:B3:2457:U:O2'	46:BZ:84:LEU:CD2	2.63	0.46
18:B3:2459:G:C3'	46:BZ:66:LYS:HE3	2.46	0.46
18:B3:2709:G:C8	37:BR:7:GLN:CD	2.88	0.46
18:B3:2721:U:H4'	38:BS:21:PHE:CD2	2.42	0.46
18:B3:2748:G:H4'	18:B3:2749:U:H5'	1.96	0.46
18:B3:2809:G:H4'	22:BC:18:ARG:NH2	2.12	0.46
21:BB:22:ARG:HD3	21:BB:22:ARG:H	1.79	0.46
21:BB:100:VAL:HA	21:BB:163:GLY:O	2.16	0.46
21:BB:124:ALA:O	21:BB:125:LEU:HD12	2.13	0.46
21:BB:162:ARG:HD2	21:BB:163:GLY:CA	2.45	0.46
22:BC:44:SER:HB3	22:BC:338:ARG:O	2.14	0.46
22:BC:277:ILE:HG22	22:BC:278:ASN:CG	2.36	0.46
23:BD:124:ALA:CB	23:BD:234:LEU:CD1	2.93	0.46
24:BE:51:LEU:HA	24:BE:64:ILE:HD12	1.98	0.46
24:BE:55:PHE:CE2	24:BE:158:ARG:CB	2.92	0.46
24:BE:111:GLN:NE2	24:BE:142:PHE:HE2	2.13	0.46
24:BE:201:GLY:O	24:BE:203:HIS:HD2	1.98	0.46
27:BH:154:VAL:HG23	27:BH:155:SER:N	2.29	0.46
27:BH:160:ASP:CA	27:BH:163:GLN:HG3	2.44	0.46
28:BI:6:ALA:HB1	28:BI:10:ARG:CZ	2.46	0.46
28:BI:70:ILE:CD1	28:BI:74:LYS:HG2	2.43	0.46
29:BJ:141:LYS:O	29:BJ:142:ARG:HB3	2.16	0.46
33:BN:130:ARG:HB3	33:BN:130:ARG:HH11	1.80	0.46
36:BQ:27:LEU:H	36:BQ:27:LEU:CD1	2.28	0.46
40:BU:58:VAL:N	40:BU:67:GLU:HG2	2.30	0.46
40:BU:63:LYS:HZ1	40:BU:97:ILE:CD1	2.28	0.46
40:BU:100:HIS:CB	40:BU:101:PRO:CA	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:B0:61:LYS:CE	42:B0:62:LYS:HG3	2.45	0.46
45:BY:7:PHE:CD1	45:BY:8:GLY:N	2.83	0.46
1:AA:99:C:O2'	1:AA:101:A:C5	2.69	0.46
1:AA:269:C:H2'	1:AA:270:A:C8	2.50	0.46
1:AA:499:A:H2	1:AA:546:G:HO2'	1.61	0.46
1:AA:621:A:OP2	5:AD:143:ILE:CD1	2.61	0.46
1:AA:792:A:H1'	1:AA:794:A:N7	2.30	0.46
1:AA:1222:G:O3'	17:AS:98:ASN:HB3	2.15	0.46
1:AA:1377:A:C5	7:AG:76:TYR:HD2	2.25	0.46
2:AT:29:ASP:CG	18:B3:2693:U:OP2	2.54	0.46
2:AT:737:GLU:HB2	2:AT:766:PHE:HE2	1.80	0.46
4:AC:33:TYR:CE1	4:AC:35:GLY:HA2	2.49	0.46
4:AC:137:VAL:CG2	4:AC:149:MET:HG2	2.45	0.46
6:AE:156:LYS:HB3	8:AH:95:ALA:HB1	1.96	0.46
7:AG:220:ALA:C	7:AG:222:SER:H	2.18	0.46
8:AH:70:LYS:HG3	8:AH:71:CYS:H	1.79	0.46
9:AI:47:VAL:HG13	9:AI:80:ILE:C	2.35	0.46
10:AJ:41:ILE:HG22	10:AJ:52:LYS:HZ3	1.80	0.46
12:AL:101:GLU:CA	12:AL:132:LEU:HD23	2.45	0.46
13:AM:94:ASP:CG	13:AM:134:ARG:NH2	2.51	0.46
18:B3:21:G:H5'	33:BN:5:ALA:N	2.30	0.46
18:B3:148:A:C5'	45:BY:41:ALA:O	2.60	0.46
18:B3:218:C:N4	41:BV:54:LYS:HZ2	2.13	0.46
18:B3:425:U:O2'	18:B3:426:G:H5'	2.15	0.46
18:B3:516:A:H2	18:B3:1318:A:N1	2.13	0.46
18:B3:657:G:P	34:BO:25:TYR:OH	2.73	0.46
18:B3:750:A:O4'	23:BD:116:GLU:HB2	2.14	0.46
18:B3:903:U:O4	41:BV:15:SER:OG	2.33	0.46
18:B3:1098:A:OP2	25:BF:216:PRO:HA	2.15	0.46
18:B3:1109:U:OP1	18:B3:1110:G:H5"	2.15	0.46
18:B3:1232:A:C8	18:B3:2525:G:C5'	2.72	0.46
18:B3:1310:U:OP2	23:BD:203:GLY:CA	2.59	0.46
18:B3:1605:G:H5"	18:B3:1605:G:C8	2.50	0.46
18:B3:2105:C:H2'	18:B3:2106:C:C6	2.51	0.46
18:B3:2205:G:C6	18:B3:2206:C:N3	2.84	0.46
18:B3:2216:A:O2'	18:B3:2217:U:H6	1.98	0.46
18:B3:2244:A:H62	18:B3:2257:G:N2	2.13	0.46
18:B3:2350:G:O2'	18:B3:2351:C:H5'	2.15	0.46
18:B3:2561:C:O4'	18:B3:2777:G:H4'	2.16	0.46
18:B3:2714:U:H5"	37:BR:45:ARG:HH12	1.32	0.46
18:B3:2809:G:P	22:BC:273:SER:O	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2854:A:OP1	22:BC:170:LEU:HD12	2.16	0.46
18:B3:2871:G:H2'	18:B3:2872:U:C6	2.51	0.46
20:BA:54:LYS:HE3	20:BA:156:LYS:CB	2.45	0.46
20:BA:176:GLU:O	20:BA:180:VAL:HG23	2.16	0.46
21:BB:138:HIS:HD2	21:BB:145:THR:CA	2.23	0.46
21:BB:188:TYR:CD2	21:BB:189:ARG:N	2.83	0.46
22:BC:49:LYS:CG	22:BC:333:ARG:N	2.78	0.46
22:BC:71:VAL:HG21	37:BR:87:ARG:HD3	1.68	0.46
22:BC:98:LEU:HD12	22:BC:155:SER:CB	2.45	0.46
22:BC:301:LYS:HD3	22:BC:302:LYS:NZ	2.29	0.46
24:BE:58:LYS:CA	24:BE:93:THR:HB	2.37	0.46
24:BE:59:ASP:O	24:BE:60:ILE:HD13	2.14	0.46
24:BE:63:GLN:O	24:BE:64:ILE:HB	2.15	0.46
24:BE:103:LEU:HD11	24:BE:226:TYR:CG	2.50	0.46
24:BE:111:GLN:HA	24:BE:115:LEU:HB2	1.98	0.46
24:BE:219:PHE:HD1	24:BE:222:LEU:CB	2.29	0.46
25:BF:235:ILE:O	25:BF:239:VAL:HB	2.15	0.46
26:BG:149:LEU:CD1	26:BG:214:VAL:HG11	2.45	0.46
26:BG:210:LEU:O	26:BG:211:ALA:HB3	2.15	0.46
27:BH:64:HIS:CB	32:BM:127:ARG:HB2	2.25	0.46
27:BH:161:LEU:O	27:BH:179:ILE:HD11	2.15	0.46
28:BI:85:PHE:HB3	28:BI:140:THR:OG1	2.14	0.46
29:BJ:69:THR:C	29:BJ:70:VAL:HG22	2.23	0.46
29:BJ:92:ASP:HB3	29:BJ:93:ARG:H	1.29	0.46
31:BL:35:ILE:HG12	31:BL:108:ARG:HG2	1.97	0.46
31:BL:63:VAL:CG2	31:BL:105:VAL:HG21	2.45	0.46
31:BL:163:LEU:HD11	31:BL:164:THR:HG22	1.93	0.46
32:BM:17:ARG:HG3	32:BM:17:ARG:HH11	1.79	0.46
34:BO:25:TYR:CD1	34:BO:26:LEU:N	2.83	0.46
34:BO:79:LYS:HG3	34:BO:138:LEU:CD1	2.45	0.46
39:BT:102:TYR:CD1	39:BT:102:TYR:N	2.82	0.46
40:BU:31:LEU:HD21	40:BU:78:PHE:HB3	1.96	0.46
40:BU:58:VAL:HG21	40:BU:63:LYS:O	2.15	0.46
41:BV:23:LYS:HD2	41:BV:24:HIS:O	2.15	0.46
41:BV:27:HIS:CB	41:BV:28:PRO:HA	2.30	0.46
41:BV:95:LYS:CE	41:BV:96:GLU:H	2.29	0.46
1:AA:58:C:O2'	1:AA:59:A:H5'	2.16	0.46
1:AA:123:C:O2'	1:AA:289:G:N3	2.38	0.46
1:AA:132:C:OP2	16:AQ:128:ARG:NH1	2.48	0.46
1:AA:538:G:H5"	12:AL:141:GLU:HA	1.65	0.46
1:AA:948:C:C2'	13:AM:141:THR:HG23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:956:U:O2'	17:AS:126:VAL:CG1	2.56	0.46
1:AA:976:G:C8	1:AA:1358:U:C2	3.04	0.46
1:AA:1039:C:O2'	1:AA:1040:U:H5'	2.15	0.46
1:AA:1118:C:H5"	9:AI:118:ALA:HB1	1.92	0.46
1:AA:1245:A:H2'	1:AA:1246:C:C6	2.50	0.46
1:AA:1263:C:H2'	1:AA:1264:C:H6	1.81	0.46
1:AA:1291:G:P	7:AG:111:ARG:NH1	2.89	0.46
1:AA:1298:C:OP1	13:AM:56:LYS:CA	2.63	0.46
1:AA:1331:G:C5	13:AM:41:ARG:CB	2.72	0.46
2:AT:539:GLU:O	2:AT:543:GLN:HG3	2.16	0.46
2:AT:737:GLU:C	18:B3:1199:A:N1	2.69	0.46
3:AB:27:ASN:O	3:AB:28:VAL:HB	2.16	0.46
3:AB:143:ILE:HG22	3:AB:157:VAL:CB	2.22	0.46
4:AC:105:LYS:CG	4:AC:183:ILE:CG2	2.92	0.46
6:AE:129:ILE:HG23	6:AE:130:ILE:N	2.29	0.46
6:AE:157:THR:OG1	8:AH:127:PHE:HZ	1.96	0.46
8:AH:16:ALA:CB	8:AH:24:VAL:CG2	2.94	0.46
8:AH:33:ILE:HD13	8:AH:33:ILE:C	2.36	0.46
11:AK:55:SER:O	11:AK:58:ALA:HB3	2.15	0.46
18:B3:51:G:H4'	45:BY:20:ARG:CA	2.45	0.46
18:B3:541:C:OP2	42:B0:16:LYS:O	2.34	0.46
18:B3:777:U:O2	45:BY:12:ASN:ND2	2.48	0.46
18:B3:882:A:C4'	45:BY:2:LYS:HB2	2.45	0.46
18:B3:939:A:O2'	18:B3:940:G:P	2.74	0.46
18:B3:946:C:H2'	18:B3:947:U:C6	2.51	0.46
18:B3:1160:G:H21	18:B3:1207:A:H62	1.63	0.46
18:B3:1938:G:H21	21:BB:241:ARG:H	1.62	0.46
18:B3:2005:G:OP2	18:B3:2005:G:H3'	2.14	0.46
18:B3:2019:A:N9	47:B9:17:TYR:OH	2.48	0.46
18:B3:2242:U:H3	18:B3:2257:G:H22	1.63	0.46
18:B3:2251:G:C6	18:B3:2252:A:C6	3.04	0.46
18:B3:2296:C:H6	36:BQ:4:SER:N	2.12	0.46
18:B3:2575:C:H2'	18:B3:2576:A:O4'	2.16	0.46
18:B3:2820:A:H4'	22:BC:89:VAL:HA	1.96	0.46
18:B3:2841:A:C2	33:BN:68:ARG:HB2	2.50	0.46
18:B3:2847:G:H3'	22:BC:172:GLN:HG3	1.97	0.46
19:B4:119:C:O2	24:BE:72:ASP:O	2.34	0.46
21:BB:30:THR:O	21:BB:30:THR:HG23	2.16	0.46
21:BB:36:ARG:H	21:BB:36:ARG:CD	2.29	0.46
21:BB:45:LYS:CB	21:BB:71:ARG:CZ	2.93	0.46
22:BC:42:LEU:CD1	22:BC:85:VAL:HG11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:46:LEU:HD23	22:BC:336:THR:HB	1.96	0.46
22:BC:159:VAL:CG1	22:BC:180:ILE:CD1	2.93	0.46
23:BD:63:SER:HB2	23:BD:74:PRO:CA	2.31	0.46
23:BD:97:ARG:HG2	23:BD:98:MET:H	1.79	0.46
23:BD:182:LYS:HD3	23:BD:182:LYS:O	2.15	0.46
23:BD:192:LYS:HD2	23:BD:193:TYR:HB3	1.97	0.46
24:BE:138:GLY:HA2	24:BE:139:PRO:HD2	1.69	0.46
24:BE:201:GLY:O	24:BE:204:VAL:HG12	2.15	0.46
24:BE:211:LEU:HD23	24:BE:212:ALA:O	2.16	0.46
24:BE:215:ASP:HB3	24:BE:217:GLU:OE1	2.16	0.46
25:BF:179:SER:HA	25:BF:183:LEU:CD1	2.45	0.46
26:BG:135:LEU:HA	26:BG:138:VAL:HG12	1.97	0.46
27:BH:41:ILE:HG13	32:BM:125:VAL:CG2	2.34	0.46
28:BI:138:VAL:CG1	28:BI:139:ARG:N	2.79	0.46
29:BJ:83:LEU:HD21	29:BJ:90:LEU:CD1	2.45	0.46
30:BK:93:LYS:HE3	30:BK:96:LYS:HB2	1.96	0.46
30:BK:107:ASP:O	30:BK:111:GLU:HG2	2.15	0.46
31:BL:42:THR:HG22	31:BL:43:ARG:NH1	2.28	0.46
32:BM:114:LYS:C	32:BM:115:LYS:HD2	2.35	0.46
37:BR:104:ASN:CG	37:BR:105:PRO:HD2	2.36	0.46
37:BR:118:VAL:HG22	37:BR:135:VAL:O	2.15	0.46
38:BS:33:ASN:HD22	38:BS:33:ASN:HA	1.58	0.46
40:BU:14:LYS:CG	40:BU:17:LYS:HD3	2.46	0.46
40:BU:22:ALA:HB1	40:BU:23:PRO:CD	2.35	0.46
40:BU:50:ILE:CG2	40:BU:70:ILE:CD1	2.93	0.46
42:B0:72:LYS:H	42:B0:90:LYS:CB	2.29	0.46
44:BX:12:LYS:HB3	44:BX:16:GLN:HB3	1.98	0.46
46:BZ:25:THR:HG23	46:BZ:26:GLN:N	2.30	0.46
1:AA:33:A:H5'	1:AA:365:U:O4'	2.16	0.46
1:AA:265:G:C2'	1:AA:266:G:H5'	2.45	0.46
1:AA:554:C:C5'	12:AL:45:GLY:N	2.79	0.46
1:AA:920:U:H2'	1:AA:921:U:C6	2.50	0.46
1:AA:1175:G:C5	9:AI:109:THR:HG23	2.51	0.46
1:AA:1296:C:H4'	1:AA:1302:U:C5	2.51	0.46
1:AA:1305:G:N2	1:AA:1331:G:C2'	2.78	0.46
1:AA:1329:A:H2	13:AM:93:THR:CA	2.19	0.46
1:AA:1351:U:H2'	1:AA:1352:C:C6	2.43	0.46
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.46
2:AT:607:ASN:HB2	2:AT:610:ASP:OD2	2.15	0.46
5:AD:97:LEU:O	5:AD:105:LEU:HG	2.15	0.46
5:AD:175:ARG:CB	5:AD:191:ALA:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:221:TYR:N	8:AH:99:GLY:CA	2.74	0.46
7:AG:78:ASN:HD22	7:AG:78:ASN:H	1.63	0.46
8:AH:67:ARG:CG	8:AH:73:VAL:HG22	2.46	0.46
8:AH:125:LEU:HD12	8:AH:125:LEU:H	1.81	0.46
9:AI:89:VAL:CA	9:AI:96:VAL:HG21	2.45	0.46
10:AJ:45:ALA:HB1	10:AJ:93:LEU:HD21	1.96	0.46
18:B3:67:A:C2'	39:BT:60:LYS:HZ2	2.27	0.46
18:B3:728:C:H2'	18:B3:729:C:H6	1.81	0.46
18:B3:771:G:OP1	31:BL:76:LYS:HG3	2.15	0.46
18:B3:841:A:C2'	33:BN:131:ALA:HB1	2.44	0.46
18:B3:1088:A:HO2'	18:B3:1089:G:H5"	1.80	0.46
18:B3:1183:C:O4'	30:BK:104:ILE:CA	2.57	0.46
18:B3:1287:A:H62	25:BF:201:LEU:HD11	1.81	0.46
18:B3:1310:U:C5	23:BD:181:LEU:HD12	2.49	0.46
18:B3:1343:C:O2	23:BD:188:ALA:N	2.48	0.46
18:B3:1675:C:OP2	39:BT:120:LYS:O	2.33	0.46
18:B3:1801:A:C5'	35:BP:88:LEU:CD1	2.53	0.46
18:B3:2047:C:O2'	18:B3:2841:A:C1'	2.64	0.46
18:B3:2579:G:C4'	18:B3:2680:A:C4	2.88	0.46
18:B3:2589:U:H2'	18:B3:2590:U:C6	2.50	0.46
18:B3:2652:U:N1	22:BC:257:ALA:CB	2.75	0.46
19:B4:11:A:N7	24:BE:16:PHE:N	2.62	0.46
19:B4:34:A:H2'	24:BE:185:PHE:CD1	2.50	0.46
19:B4:50:G:O6	24:BE:57:ASN:HA	2.15	0.46
20:BA:30:GLU:HB3	20:BA:209:SER:H	1.79	0.46
21:BB:145:THR:HG22	21:BB:157:ILE:C	2.35	0.46
21:BB:166:GLY:O	21:BB:167:VAL:HB	2.15	0.46
22:BC:42:LEU:HD23	22:BC:45:PHE:HD2	1.79	0.46
22:BC:45:PHE:O	22:BC:338:ARG:HB2	2.16	0.46
25:BF:99:ARG:O	25:BF:99:ARG:HD3	2.15	0.46
25:BF:167:ILE:HG22	25:BF:168:ILE:CD1	2.17	0.46
26:BG:139:VAL:HG21	26:BG:164:PHE:HE1	1.80	0.46
26:BG:149:LEU:CD2	26:BG:210:LEU:CG	2.92	0.46
27:BH:26:LYS:H	27:BH:26:LYS:CE	2.18	0.46
27:BH:29:GLY:CA	27:BH:82:VAL:HG22	2.45	0.46
28:BI:164:LYS:HG3	28:BI:166:ILE:H	1.81	0.46
29:BJ:48:LYS:HB3	29:BJ:48:LYS:HZ2	1.80	0.46
29:BJ:83:LEU:HD12	29:BJ:167:ASP:OD2	2.15	0.46
31:BL:104:ARG:HH21	31:BL:107:ARG:HB2	1.80	0.46
34:BO:59:ARG:CG	34:BO:85:GLY:CA	2.93	0.46
35:BP:19:ARG:NE	35:BP:20:LYS:HG3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:80:ARG:CG	35:BP:87:ARG:CD	2.93	0.46
37:BR:7:GLN:HG3	37:BR:8:GLY:N	2.31	0.46
37:BR:91:VAL:HG23	38:BS:17:ARG:HA	1.89	0.46
40:BU:118:LEU:C	40:BU:120:GLN:H	2.19	0.46
45:BY:21:CYS:SG	45:BY:38:TYR:CE2	3.07	0.46
47:B9:20:SER:H	47:B9:22:ARG:HB3	1.80	0.46
47:B9:54:TRP:CZ2	47:B9:65:GLY:CA	2.96	0.46
47:B9:68:TYR:O	47:B9:68:TYR:CG	2.65	0.46
1:AA:61:G:H2'	1:AA:62:U:O4'	2.14	0.46
1:AA:151:A:H2'	1:AA:152:A:O4'	2.15	0.46
1:AA:838:G:C3'	1:AA:839:U:H5"	2.44	0.46
1:AA:947:G:H2'	1:AA:948:C:O4'	2.16	0.46
1:AA:951:G:O2'	1:AA:952:U:H5'	2.16	0.46
1:AA:1153:C:P	10:AJ:31:VAL:HG21	2.54	0.46
1:AA:1179:A:P	9:AI:116:LEU:O	2.74	0.46
1:AA:1220:G:O2'	17:AS:96:ILE:CA	2.61	0.46
1:AA:1240:U:C5'	7:AG:188:THR:CG2	2.94	0.46
1:AA:1291:G:OP1	7:AG:111:ARG:CZ	2.63	0.46
1:AA:1408:A:O4'	18:B3:1960:A:P	2.74	0.46
2:AT:552:VAL:CG1	2:AT:553:PRO:HD2	2.45	0.46
3:AB:59:ALA:CB	3:AB:157:VAL:HG11	2.46	0.46
3:AB:135:ALA:O	3:AB:138:VAL:HG12	2.15	0.46
4:AC:114:ILE:HG13	4:AC:137:VAL:HG21	1.98	0.46
7:AG:111:ARG:HG2	9:AI:43:LEU:HD21	1.96	0.46
7:AG:213:LYS:HE2	7:AG:217:GLU:CD	2.36	0.46
8:AH:13:ILE:CG2	8:AH:77:ARG:HH22	2.27	0.46
9:AI:25:LYS:HB3	9:AI:27:LEU:HD22	1.98	0.46
10:AJ:61:LYS:HZ3	10:AJ:86:ILE:C	2.19	0.46
10:AJ:70:THR:OG1	10:AJ:71:PRO:HD2	2.16	0.46
11:AK:22:PHE:CE1	11:AK:86:GLY:HA2	2.51	0.46
11:AK:57:TYR:CE1	11:AK:61:LEU:HD11	2.50	0.46
12:AL:76:LEU:HD23	12:AL:81:LYS:O	2.15	0.46
13:AM:37:GLY:CA	13:AM:101:LEU:HD22	2.43	0.46
14:AN:35:LEU:O	14:AN:36:ASN:HB2	2.15	0.46
18:B3:35:U:O4'	23:BD:49:TYR:HA	2.15	0.46
18:B3:71:G:N2	44:BX:56:THR:CG2	2.78	0.46
18:B3:141:C:C2'	18:B3:141:C:O2	2.63	0.46
18:B3:537:G:H4'	42:B0:21:HIS:NE2	2.22	0.46
18:B3:550:C:O2'	18:B3:551:A:H5'	2.14	0.46
18:B3:657:G:H2'	18:B3:658:C:C6	2.51	0.46
18:B3:683:G:O2'	18:B3:684:G:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:697:G:OP1	41:BV:130:SER:OG	2.33	0.46
18:B3:710:G:C4'	34:BO:44:PHE:HE2	2.29	0.46
18:B3:721:A:C5'	34:BO:72:LYS:N	2.70	0.46
18:B3:1117:A:H1'	18:B3:1227:C:O5'	2.16	0.46
18:B3:1396:C:H1'	35:BP:2:ASN:HD22	1.80	0.46
18:B3:1527:A:C2	18:B3:1528:A:C5	3.03	0.46
18:B3:1733:A:H5'	22:BC:225:PHE:O	2.15	0.46
18:B3:2129:U:H2'	18:B3:2130:C:C6	2.50	0.46
18:B3:2547:C:C5'	22:BC:246:ARG:HH12	2.28	0.46
18:B3:2871:G:H2'	18:B3:2872:U:H6	1.80	0.46
20:BA:49:PHE:O	20:BA:154:THR:HB	2.15	0.46
20:BA:190:PHE:HE2	20:BA:197:ASN:O	1.98	0.46
21:BB:9:LYS:HA	21:BB:15:PHE:CD2	2.49	0.46
21:BB:106:VAL:CG1	21:BB:135:ILE:CD1	2.94	0.46
21:BB:236:LEU:HB3	21:BB:239:ALA:HB2	1.98	0.46
22:BC:56:VAL:CG1	22:BC:69:ARG:CG	2.93	0.46
22:BC:229:THR:CG2	22:BC:246:ARG:CB	2.94	0.46
25:BF:84:PHE:HB2	25:BF:138:PRO:CG	2.46	0.46
25:BF:164:ASP:HB3	25:BF:180:ILE:HG21	1.95	0.46
26:BG:117:GLU:HB2	26:BG:213:LEU:HD13	1.98	0.46
26:BG:117:GLU:CB	26:BG:213:LEU:HD13	2.45	0.46
27:BH:43:VAL:HG11	32:BM:127:ARG:H	1.81	0.46
28:BI:48:LEU:CD2	28:BI:139:ARG:HB2	2.29	0.46
29:BJ:71:ARG:N	29:BJ:71:ARG:CD	2.74	0.46
31:BL:115:LEU:HD23	31:BL:115:LEU:HA	1.61	0.46
31:BL:119:TRP:HE3	31:BL:119:TRP:C	2.19	0.46
32:BM:98:LEU:CA	32:BM:101:LEU:CD1	2.93	0.46
33:BN:85:LYS:HE3	33:BN:88:LYS:NZ	2.29	0.46
33:BN:97:ALA:HA	33:BN:100:ASN:OD1	2.16	0.46
33:BN:148:VAL:C	33:BN:149:VAL:HG13	2.36	0.46
34:BO:51:ALA:CB	34:BO:84:VAL:HG21	2.29	0.46
35:BP:9:LEU:CG	35:BP:37:ARG:HE	2.28	0.46
37:BR:39:VAL:HG12	37:BR:58:VAL:CB	2.46	0.46
37:BR:101:VAL:O	37:BR:101:VAL:HG13	2.16	0.46
37:BR:123:ALA:HA	37:BR:130:ALA:HB2	1.97	0.46
39:BT:66:ILE:HB	39:BT:120:LYS:HZ3	1.81	0.46
41:BV:81:ILE:CG2	41:BV:82:PRO:N	2.78	0.46
43:BW:52:PRO:HB3	43:BW:56:GLN:NE2	2.31	0.46
43:BW:58:ILE:CG1	43:BW:59:TRP:NE1	2.78	0.46
1:AA:31:G:N2	1:AA:47:C:OP1	2.48	0.46
1:AA:61:G:C2'	1:AA:386:C:C4'	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:600:C:P	8:AH:121:SER:HG	2.36	0.46
1:AA:987:G:C2	1:AA:1014:A:N3	2.84	0.46
1:AA:1180:A:OP1	9:AI:117:ILE:HG21	2.15	0.46
1:AA:1206:G:C6	1:AA:1207:G:C5	3.04	0.46
1:AA:1256:A:O2'	1:AA:1257:U:P	2.74	0.46
1:AA:1308:U:C2'	13:AM:92:ILE:HA	2.46	0.46
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.73	0.46
1:AA:1499:A:N3	1:AA:1520:G:O5'	2.02	0.46
2:AT:16:VAL:HG11	2:AT:450:ALA:O	2.15	0.46
2:AT:129:VAL:HG13	2:AT:134:GLY:O	2.16	0.46
2:AT:785:ARG:NE	18:B3:2697:A:N6	2.42	0.46
3:AB:122:VAL:HG22	3:AB:128:ASP:OD2	2.16	0.46
4:AC:134:GLU:CB	4:AC:156:LEU:CD2	2.93	0.46
6:AE:153:LEU:HD23	6:AE:155:THR:O	2.15	0.46
7:AG:102:ASN:O	7:AG:103:ASN:HB2	2.15	0.46
7:AG:123:LEU:HD12	7:AG:123:LEU:N	2.31	0.46
7:AG:189:ILE:HG22	7:AG:189:ILE:O	2.15	0.46
8:AH:100:TYR:HA	8:AH:112:HIS:NE2	2.31	0.46
9:AI:43:LEU:H	9:AI:43:LEU:CD2	2.29	0.46
9:AI:47:VAL:HG11	9:AI:80:ILE:HB	1.96	0.46
9:AI:119:ASP:OD1	9:AI:121:ARG:HG3	2.16	0.46
12:AL:59:ILE:HD11	12:AL:117:ILE:HD13	1.94	0.46
12:AL:87:VAL:HA	12:AL:124:VAL:CG2	2.44	0.46
12:AL:110:LYS:HD3	12:AL:112:LYS:HD2	1.98	0.46
13:AM:28:ILE:HG13	13:AM:32:LEU:HD11	1.95	0.46
16:AQ:124:VAL:HG22	16:AQ:136:PHE:CD2	2.49	0.46
18:B3:136:C:H5"	31:BL:56:GLN:OE1	2.16	0.46
18:B3:293:A:O2'	18:B3:294:C:H5'	2.16	0.46
18:B3:537:G:H2'	42:B0:41:VAL:HG12	1.89	0.46
18:B3:894:A:OP2	23:BD:57:HIS:HB3	2.16	0.46
18:B3:1133:A:N6	18:B3:2501:G:O4'	2.49	0.46
18:B3:1153:C:OP2	18:B3:1155:G:C8	2.67	0.46
18:B3:1163:G:O2'	30:BK:53:PHE:N	2.49	0.46
18:B3:1401:G:H4'	43:BW:63:VAL:HA	0.83	0.46
18:B3:1447:U:H3'	18:B3:1506:U:O2	2.14	0.46
18:B3:1603:A:H4'	18:B3:1604:G:OP2	2.14	0.46
18:B3:2060:A:C2'	42:B0:24:ARG:HD3	2.35	0.46
18:B3:2168:G:N1	18:B3:2169:C:N4	2.64	0.46
18:B3:2274:A:H4'	31:BL:77:GLY:HA2	1.98	0.46
18:B3:2382:A:C1'	46:BZ:10:TYR:CD2	2.98	0.46
18:B3:2458:U:H4'	46:BZ:66:LYS:HB3	1.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2499:U:O2'	18:B3:2500:C:H5'	2.16	0.46
18:B3:2670:G:O2'	22:BC:160:LEU:HD12	2.15	0.46
18:B3:2754:G:O2'	18:B3:2755:G:H5'	2.15	0.46
18:B3:2776:A:H2'	18:B3:2777:G:O4'	2.16	0.46
18:B3:2837:U:O2	22:BC:334:ILE:HG13	2.15	0.46
20:BA:144:LEU:HD12	20:BA:144:LEU:N	2.31	0.46
22:BC:46:LEU:HG	22:BC:47:GLY:N	2.31	0.46
22:BC:172:GLN:CG	22:BC:173:LYS:CE	2.94	0.46
22:BC:220:THR:CG2	22:BC:272:HIS:HB2	2.45	0.46
22:BC:348:LYS:HD3	22:BC:348:LYS:N	2.24	0.46
23:BD:190:LYS:CD	23:BD:193:TYR:CE1	2.98	0.46
23:BD:205:LEU:CG	23:BD:206:VAL:HG23	2.30	0.46
24:BE:12:TYR:CG	24:BE:13:SER:N	2.83	0.46
24:BE:88:ILE:CG1	24:BE:89:THR:H	2.27	0.46
24:BE:188:GLU:HA	24:BE:198:TYR:CG	2.49	0.46
25:BF:99:ARG:HD3	25:BF:99:ARG:C	2.36	0.46
25:BF:101:VAL:HG23	25:BF:125:LEU:HD13	1.97	0.46
25:BF:153:GLY:N	25:BF:200:PHE:HB2	2.31	0.46
26:BG:159:ILE:HG23	26:BG:161:LEU:HG	1.97	0.46
28:BI:9:TYR:HD2	28:BI:97:LEU:HD22	1.80	0.46
28:BI:66:GLU:CA	28:BI:69:ARG:CZ	2.94	0.46
29:BJ:109:ILE:O	29:BJ:111:LEU:HD12	2.16	0.46
30:BK:85:LEU:HD21	30:BK:102:GLY:HA3	1.98	0.46
30:BK:94:LYS:HD2	30:BK:138:SER:HA	1.93	0.46
30:BK:125:LEU:HD13	30:BK:129:THR:CG2	2.45	0.46
31:BL:104:ARG:NE	31:BL:104:ARG:HA	2.31	0.46
31:BL:186:ARG:HD3	31:BL:186:ARG:C	2.35	0.46
32:BM:26:LEU:CD1	32:BM:97:ALA:CB	2.93	0.46
33:BN:94:LEU:HD22	33:BN:94:LEU:O	2.16	0.46
34:BO:60:PRO:HB2	34:BO:61:PRO:C	2.36	0.46
34:BO:67:ILE:HG22	34:BO:67:ILE:O	2.14	0.46
35:BP:21:VAL:CA	35:BP:51:LYS:CB	2.93	0.46
35:BP:89:PRO:HB2	35:BP:92:VAL:HG21	1.98	0.46
36:BQ:75:ILE:HB	36:BQ:89:LEU:CB	2.46	0.46
37:BR:59:MET:HB3	37:BR:74:MET:CE	2.46	0.46
39:BT:70:THR:HG23	39:BT:71:ALA:N	2.29	0.46
39:BT:75:VAL:HG12	39:BT:80:ILE:CG1	2.29	0.46
39:BT:103:GLU:O	39:BT:103:GLU:HG3	2.16	0.46
40:BU:74:TYR:CD1	40:BU:75:ARG:N	2.83	0.46
40:BU:101:PRO:CA	40:BU:104:LEU:HD22	2.35	0.46
44:BX:10:ARG:HH22	44:BX:11:THR:HB	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:32:THR:HB	45:BY:38:TYR:CG	2.49	0.46
1:AA:22:G:H21	1:AA:913:A:N6	2.13	0.46
1:AA:61:G:H2'	1:AA:386:C:C4'	2.46	0.46
1:AA:69:G:O4'	1:AA:174:C:C5	2.69	0.46
1:AA:122:G:C2	1:AA:288:A:N1	2.84	0.46
1:AA:239:U:H6	1:AA:240:C:C4	2.27	0.46
1:AA:242:C:H2'	1:AA:243:A:H5'	1.96	0.46
1:AA:362:G:HO2'	12:AL:78:LYS:HA	1.79	0.46
1:AA:413:G:N2	1:AA:428:G:O2'	2.49	0.46
1:AA:620:C:H3'	5:AD:143:ILE:HG12	1.97	0.46
1:AA:624:C:H2'	1:AA:625:G:H8	1.81	0.46
1:AA:636:U:H5'	16:AQ:68:LYS:HZ1	1.81	0.46
1:AA:1226:C:H5'	17:AS:125:PRO:HG3	1.47	0.46
1:AA:1309:G:H1'	13:AM:109:LEU:CD1	2.41	0.46
1:AA:1343:G:O3'	9:AI:136:ARG:CG	2.63	0.46
1:AA:1405:G:C5	1:AA:1519:A:C1'	2.99	0.46
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.51	0.46
2:AT:18:ASN:N	2:AT:18:ASN:HD22	2.14	0.46
2:AT:29:ASP:HB3	18:B3:2693:U:OP1	2.14	0.46
2:AT:108:HIS:CG	2:AT:108:HIS:O	2.69	0.46
2:AT:145:GLN:CA	2:AT:483:PHE:CE2	2.81	0.46
2:AT:757:GLU:CD	18:B3:1171:A:O2'	2.55	0.46
3:AB:58:LEU:HD12	3:AB:61:ARG:NH2	2.30	0.46
6:AE:163:SER:HB2	6:AE:202:LYS:CB	2.43	0.46
7:AG:133:VAL:O	7:AG:137:THR:HG23	2.16	0.46
8:AH:36:PHE:CD1	8:AH:102:ILE:HG21	2.50	0.46
10:AJ:99:ILE:O	10:AJ:103:ILE:HG12	2.16	0.46
11:AK:42:THR:HG21	11:AK:58:ALA:CB	2.46	0.46
16:AQ:96:TYR:O	16:AQ:97:ASN:HB2	2.16	0.46
18:B3:506:G:N2	18:B3:509:A:H5'	2.21	0.46
18:B3:646:G:C3'	23:BD:106:ARG:HH21	2.27	0.46
18:B3:688:A:N7	41:BV:73:ASN:OD1	2.49	0.46
18:B3:1564:C:O2'	18:B3:2738:G:O6	2.33	0.46
18:B3:2430:A:N6	18:B3:2460:A:H2	2.14	0.46
18:B3:2511:A:H8	18:B3:2511:A:H5'	1.80	0.46
18:B3:2911:C:O2'	18:B3:2912:C:H5'	2.15	0.46
19:B4:45:A:H5'	29:BJ:140:ARG:HH11	1.80	0.46
20:BA:41:TYR:O	20:BA:43:PRO:HD3	2.16	0.46
20:BA:49:PHE:HE1	20:BA:54:LYS:N	2.13	0.46
21:BB:50:ASP:CG	21:BB:57:LEU:HG	2.36	0.46
21:BB:115:VAL:HG21	21:BB:125:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:56:VAL:HG11	22:BC:69:ARG:HG3	1.98	0.46
22:BC:70:GLU:OE2	37:BR:87:ARG:O	2.34	0.46
22:BC:121:TRP:CD2	22:BC:123:LYS:CG	2.96	0.46
22:BC:161:VAL:CG1	22:BC:180:ILE:HD11	2.46	0.46
22:BC:173:LYS:HZ1	22:BC:174:LYS:HB2	1.79	0.46
22:BC:232:TRP:CE3	22:BC:232:TRP:N	2.78	0.46
23:BD:11:THR:HG21	23:BD:13:GLU:CG	2.30	0.46
23:BD:153:THR:HG23	23:BD:154:ASP:N	2.30	0.46
23:BD:161:THR:O	23:BD:162:LYS:HB2	2.16	0.46
24:BE:37:VAL:HG13	24:BE:38:THR:N	2.30	0.46
28:BI:82:ARG:HB2	28:BI:82:ARG:HH11	1.80	0.46
29:BJ:19:ASN:ND2	29:BJ:66:VAL:HG13	2.30	0.46
30:BK:116:MET:CE	30:BK:116:MET:HA	2.46	0.46
32:BM:18:LEU:O	32:BM:21:VAL:HB	2.16	0.46
33:BN:38:TRP:H	33:BN:113:VAL:HG12	1.81	0.46
33:BN:81:ARG:NH1	33:BN:81:ARG:HG2	2.30	0.46
33:BN:115:HIS:H	33:BN:148:VAL:CB	2.27	0.46
35:BP:41:ARG:NH1	35:BP:43:LEU:HD21	2.30	0.46
35:BP:117:HIS:C	35:BP:118:LEU:HD12	2.37	0.46
40:BU:23:PRO:HG2	40:BU:26:GLN:H	1.81	0.46
40:BU:111:LEU:HA	40:BU:116:LYS:CE	2.26	0.46
43:BW:77:LYS:CD	43:BW:79:ASN:HD22	2.25	0.46
46:BZ:67:VAL:O	46:BZ:84:LEU:HB3	2.16	0.46
47:B9:29:GLU:CB	47:B9:31:GLN:HB3	2.45	0.46
1:AA:22:G:H5'	1:AA:885:G:OP2	2.15	0.46
1:AA:321:A:H2'	1:AA:322:C:C6	2.51	0.46
1:AA:552:U:C5	12:AL:47:SER:OG	2.59	0.46
1:AA:634:C:C2'	16:AQ:92:TYR:HH	2.23	0.46
1:AA:668:G:H4'	15:AO:104:ASN:OD1	2.16	0.46
1:AA:959:A:H2'	17:AS:100:LYS:CA	2.43	0.46
1:AA:991:U:O2	1:AA:993:G:H8	1.99	0.46
1:AA:1319:A:H5"	17:AS:49:MET:SD	2.56	0.46
1:AA:1320:C:C1'	17:AS:119:PHE:CE1	2.92	0.46
1:AA:1327:C:O2'	1:AA:1328:C:H5'	2.16	0.46
1:AA:1345:U:C4	7:AG:76:TYR:CE1	2.98	0.46
2:AT:111:PHE:CZ	2:AT:141:THR:HG23	2.51	0.46
3:AB:40:ARG:HB3	3:AB:41:PRO:CD	2.39	0.46
6:AE:163:SER:CB	6:AE:202:LYS:HE2	2.46	0.46
10:AJ:21:LYS:HA	10:AJ:94:GLU:HA	1.98	0.46
10:AJ:79:TRP:N	14:AN:39:ARG:NE	2.64	0.46
11:AK:92:THR:HG23	11:AK:94:GLY:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AS:56:PHE:HD1	17:AS:80:MET:SD	2.39	0.46
17:AS:111:MET:O	17:AS:111:MET:HG2	2.15	0.46
18:B3:337:A:H2	18:B3:1314:U:C2'	2.29	0.46
18:B3:720:G:C4'	34:BO:73:GLN:N	2.40	0.46
18:B3:721:A:C2	34:BO:139:ILE:CG2	2.93	0.46
18:B3:1019:C:O4'	36:BQ:61:THR:HG21	2.15	0.46
18:B3:1054:G:H3'	28:BI:110:ARG:NE	2.31	0.46
18:B3:1131:G:N1	18:B3:2523:U:H5'	2.20	0.46
18:B3:1153:C:N4	18:B3:1155:G:N3	2.64	0.46
18:B3:1163:G:N9	30:BK:51:LYS:CG	2.23	0.46
18:B3:1380:U:H5	18:B3:2043:U:O2'	1.99	0.46
18:B3:1876:C:OP1	21:BB:131:ASN:OD1	2.34	0.46
18:B3:2381:C:H2'	18:B3:2382:A:H8	1.79	0.46
18:B3:2456:A:H2'	18:B3:2457:U:C6	2.51	0.46
18:B3:2657:G:OP1	22:BC:20:ARG:CZ	2.63	0.46
19:B4:34:A:N3	24:BE:185:PHE:CD1	2.77	0.46
19:B4:34:A:C4	24:BE:185:PHE:CD1	3.02	0.46
19:B4:37:C:C2	24:BE:154:THR:HG22	2.39	0.46
20:BA:45:ARG:CB	20:BA:47:LYS:HD3	2.32	0.46
20:BA:65:ILE:CD1	20:BA:151:VAL:CG2	2.94	0.46
20:BA:203:SER:C	20:BA:204:LEU:HD22	2.36	0.46
21:BB:20:ARG:O	21:BB:22:ARG:HD2	2.15	0.46
21:BB:37:HIS:CB	21:BB:39:TYR:HD2	2.29	0.46
21:BB:200:GLY:HA2	21:BB:208:HIS:ND1	2.31	0.46
22:BC:17:PRO:O	22:BC:18:ARG:HB2	2.15	0.46
22:BC:101:LEU:HD13	22:BC:145:ARG:CD	2.46	0.46
22:BC:218:ALA:CB	22:BC:330:ASN:HB3	2.45	0.46
22:BC:312:HIS:HB2	22:BC:313:TYR:CE2	2.51	0.46
22:BC:357:TRP:HA	38:BS:15:PRO:HB3	1.92	0.46
23:BD:62:GLU:CA	23:BD:74:PRO:HB2	2.46	0.46
23:BD:139:HIS:HD2	23:BD:141:VAL:HG13	1.78	0.46
23:BD:200:GLN:O	23:BD:201:ARG:HG2	2.16	0.46
24:BE:22:ARG:HH12	24:BE:24:ARG:HH21	1.63	0.46
24:BE:55:PHE:HE2	24:BE:158:ARG:CB	2.24	0.46
24:BE:110:LEU:CD2	24:BE:171:LEU:CB	2.94	0.46
24:BE:146:LEU:HD13	24:BE:163:LEU:HG	1.98	0.46
27:BH:44:THR:CB	27:BH:55:VAL:CG1	2.94	0.46
28:BI:79:VAL:HG22	28:BI:83:ASP:O	2.15	0.46
30:BK:88:PRO:HG2	30:BK:89:PRO:HD3	1.98	0.46
30:BK:107:ASP:HA	30:BK:110:ILE:HD12	1.98	0.46
31:BL:25:ARG:HH21	31:BL:27:TRP:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:88:VAL:HG12	31:BL:89:ASN:H	1.79	0.46
32:BM:43:SER:CA	32:BM:134:TYR:CD1	2.99	0.46
33:BN:28:THR:HA	33:BN:31:THR:CG2	2.45	0.46
37:BR:95:PHE:CE2	38:BS:28:ILE:HB	2.51	0.46
37:BR:104:ASN:HD22	37:BR:110:LYS:NZ	2.13	0.46
40:BU:39:LEU:CD1	40:BU:43:TYR:CE1	2.94	0.46
40:BU:86:THR:OG1	40:BU:96:PRO:HA	2.15	0.46
41:BV:48:HIS:H	41:BV:49:PRO:CD	2.29	0.46
47:B9:56:CYS:O	47:B9:57:SER:HB3	2.15	0.46
1:AA:66:G:N2	1:AA:69:G:N7	2.54	0.46
1:AA:1044:A:H2'	1:AA:1045:C:C4'	2.45	0.46
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.81	0.46
1:AA:1329:A:C6	13:AM:95:GLY:CA	2.71	0.46
1:AA:1376:U:H2'	7:AG:76:TYR:CB	2.46	0.46
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.50	0.46
2:AT:202:VAL:CG1	2:AT:209:VAL:HG22	2.46	0.46
2:AT:357:TYR:CZ	2:AT:476:HIS:HB3	2.51	0.46
2:AT:394:PHE:N	2:AT:394:PHE:HD2	2.14	0.46
2:AT:515:ASP:O	2:AT:518:VAL:HG12	2.16	0.46
3:AB:66:ILE:CG2	3:AB:67:PRO:HD3	2.42	0.46
3:AB:122:VAL:HG12	3:AB:144:ALA:CB	2.42	0.46
3:AB:162:ASN:HD22	3:AB:163:ASN:N	2.13	0.46
4:AC:119:TYR:CE1	4:AC:151:PHE:CZ	3.04	0.46
4:AC:125:VAL:HG11	4:AC:187:ILE:HG12	1.97	0.46
7:AG:99:ASN:HB3	7:AG:175:THR:HG21	1.98	0.46
7:AG:201:ALA:C	7:AG:203:GLY:H	2.18	0.46
9:AI:49:GLU:HG3	9:AI:113:ARG:HH21	1.80	0.46
9:AI:51:LEU:HA	9:AI:58:LYS:HG2	1.96	0.46
10:AJ:94:GLU:HG2	10:AJ:95:ALA:N	2.31	0.46
11:AK:56:PRO:CG	11:AK:92:THR:HG21	2.46	0.46
17:AS:59:LYS:HE3	17:AS:76:VAL:HG21	1.98	0.46
18:B3:35:U:H1'	23:BD:48:ALA:N	2.30	0.46
18:B3:95:A:H5"	18:B3:96:A:C3'	2.45	0.46
18:B3:775:G:OP1	45:BY:27:HIS:ND1	2.45	0.46
18:B3:795:G:H21	18:B3:817:G:H2'	1.78	0.46
18:B3:907:A:H2'	18:B3:908:A:C8	2.51	0.46
18:B3:1167:G:H4'	30:BK:111:GLU:HB3	1.61	0.46
18:B3:1227:C:C4'	32:BM:132:ARG:HH22	1.99	0.46
18:B3:1672:G:O3'	39:BT:91:LYS:CG	2.35	0.46
18:B3:1811:A:H1'	18:B3:2752:C:H1'	1.98	0.46
18:B3:1825:U:O2'	18:B3:1826:C:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1923:G:H5”	46:BZ:39:LYS:HE3	1.98	0.46
18:B3:2334:C:H4’	29:BJ:113:ILE:N	2.26	0.46
18:B3:2413:A:C1’	24:BE:174:PRO:CA	2.75	0.46
18:B3:2506:A:O2’	18:B3:2507:G:O5’	2.34	0.46
18:B3:2576:A:H1’	18:B3:2799:A:H2	1.80	0.46
18:B3:2781:U:C4’	27:BH:155:SER:CB	2.93	0.46
19:B4:6:C:H1’	24:BE:72:ASP:OD2	2.16	0.46
19:B4:14:G:H1’	24:BE:12:TYR:CB	2.44	0.46
19:B4:18:U:O2’	19:B4:19:G:H5’	2.16	0.46
19:B4:50:G:C4’	24:BE:94:ASN:CB	2.91	0.46
19:B4:86:G:O3’	25:BF:219:PHE:CD2	2.64	0.46
21:BB:61:VAL:CG1	21:BB:62:PHE:N	2.79	0.46
21:BB:102:PRO:HA	21:BB:162:ARG:O	2.15	0.46
21:BB:193:ASN:N	21:BB:193:ASN:HD21	2.14	0.46
22:BC:166:ARG:HD2	22:BC:166:ARG:N	2.30	0.46
22:BC:184:GLY:C	22:BC:190:LYS:HG3	2.36	0.46
22:BC:236:LYS:HE2	22:BC:237:LEU:CG	2.46	0.46
23:BD:146:GLU:HB3	23:BD:148:PRO:HD3	1.98	0.46
24:BE:95:TRP:C	24:BE:99:TYR:CE2	2.90	0.46
26:BG:132:LYS:HD3	26:BG:132:LYS:HA	1.64	0.46
27:BH:7:GLU:HG2	27:BH:56:ALA:CB	2.44	0.46
27:BH:19:SER:N	27:BH:26:LYS:HD2	2.30	0.46
27:BH:29:GLY:CA	27:BH:82:VAL:CG2	2.94	0.46
27:BH:107:ASP:CB	27:BH:128:VAL:H	2.19	0.46
27:BH:129:ARG:HA	27:BH:129:ARG:CZ	2.46	0.46
31:BL:41:PRO:HG2	31:BL:48:ARG:NH1	2.27	0.46
31:BL:43:ARG:HG2	31:BL:46:LYS:HZ1	1.81	0.46
32:BM:19:ALA:CB	32:BM:83:LEU:CD2	2.94	0.46
32:BM:45:GLU:HG3	32:BM:46:PHE:CD2	2.51	0.46
34:BO:75:GLY:H	34:BO:138:LEU:HD21	1.81	0.46
34:BO:96:PHE:N	34:BO:97:PRO:HD2	2.31	0.46
35:BP:22:TRP:NE1	35:BP:49:ILE:HD13	2.30	0.46
35:BP:89:PRO:HB2	35:BP:92:VAL:CG2	2.46	0.46
37:BR:19:VAL:CB	37:BR:50:PRO:HG3	2.45	0.46
38:BS:10:GLY:HA3	38:BS:53:VAL:HB	1.98	0.46
38:BS:51:TRP:CZ3	38:BS:56:ARG:CZ	2.99	0.46
40:BU:100:HIS:NE2	40:BU:104:LEU:HB3	2.31	0.46
43:BW:9:ARG:HH12	43:BW:72:LEU:HD13	1.80	0.46
45:BY:30:LYS:HE3	45:BY:30:LYS:N	2.31	0.46
46:BZ:37:GLN:CA	46:BZ:40:ARG:HE	2.28	0.46
46:BZ:66:LYS:CE	46:BZ:86:ARG:HD2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:231:G:N2	1:AA:263:A:N3	2.52	0.45
1:AA:402:G:O3'	1:AA:620:C:H1'	2.08	0.45
1:AA:499:A:C3'	1:AA:500:G:H5'	2.46	0.45
1:AA:520:A:H4'	12:AL:90:ASP:CG	2.36	0.45
1:AA:807:A:H2'	1:AA:808:C:C6	2.51	0.45
1:AA:958:A:N9	17:AS:101:ALA:CB	2.60	0.45
1:AA:1010:G:O2'	1:AA:1011:G:H5'	2.16	0.45
1:AA:1137:C:H4'	1:AA:1138:G:N1	2.31	0.45
1:AA:1297:C:C6	13:AM:53:ASP:CB	2.87	0.45
1:AA:1424:C:C2'	1:AA:1425:U:H5'	2.46	0.45
2:AT:26:ALA:HB2	2:AT:128:VAL:HB	1.98	0.45
2:AT:145:GLN:OE1	2:AT:483:PHE:CD2	2.69	0.45
2:AT:501:LEU:CG	12:AL:99:ASN:HB2	2.37	0.45
5:AD:99:LEU:CD2	5:AD:103:ASP:CA	2.93	0.45
6:AE:115:LYS:CD	6:AE:130:ILE:HB	2.46	0.45
8:AH:33:ILE:HD12	8:AH:60:ILE:HD12	1.97	0.45
8:AH:39:VAL:HG13	8:AH:40:MET:N	2.29	0.45
9:AI:89:VAL:CG2	9:AI:101:LYS:CG	2.94	0.45
9:AI:127:LYS:HD2	9:AI:127:LYS:N	2.31	0.45
10:AJ:68:ARG:HA	14:AN:39:ARG:HD3	1.57	0.45
17:AS:124:THR:CB	17:AS:126:VAL:HG22	2.45	0.45
18:B3:40:C:O2'	18:B3:41:G:H5'	2.16	0.45
18:B3:120:A:N9	45:BY:26:PHE:CE1	2.84	0.45
18:B3:219:G:H3'	18:B3:220:C:C5'	2.44	0.45
18:B3:487:G:C5'	40:BU:90:VAL:CG1	2.94	0.45
18:B3:544:G:H2'	18:B3:545:G:C5'	2.44	0.45
18:B3:693:A:H2'	18:B3:694:A:C8	2.51	0.45
18:B3:697:G:OP2	41:BV:130:SER:HA	2.17	0.45
18:B3:747:G:H2'	18:B3:748:C:C6	2.51	0.45
18:B3:1226:G:H5"	18:B3:1244:U:C2	2.41	0.45
18:B3:1352:A:O4'	23:BD:102:THR:HG22	2.14	0.45
18:B3:1371:U:H5'	33:BN:66:ILE:HD13	1.75	0.45
18:B3:1526:A:H1'	18:B3:1527:A:N7	2.31	0.45
18:B3:2000:G:O2'	18:B3:2001:G:H5'	2.16	0.45
18:B3:2214:A:H2	20:BA:105:LYS:NZ	2.03	0.45
18:B3:2720:C:O2'	38:BS:19:THR:CG2	2.64	0.45
18:B3:2781:U:O2'	18:B3:2782:G:H5'	2.16	0.45
18:B3:2818:A:O2'	22:BC:98:LEU:CB	2.53	0.45
20:BA:49:PHE:CD2	20:BA:193:LEU:HD21	2.52	0.45
20:BA:64:SER:CB	20:BA:107:TYR:CD2	2.95	0.45
21:BB:6:ASN:CA	21:BB:8:ARG:HH21	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:8:ARG:HE	21:BB:8:ARG:HB3	1.41	0.45
21:BB:23:GLN:OE1	21:BB:51:SER:HB2	2.17	0.45
21:BB:57:LEU:HB2	21:BB:74:ILE:HG23	1.97	0.45
21:BB:203:MET:HG3	21:BB:207:ASP:CB	2.46	0.45
22:BC:81:PRO:HG2	22:BC:203:ALA:HA	1.98	0.45
22:BC:188:SER:CA	22:BC:191:VAL:HG22	2.45	0.45
22:BC:226:GLU:CB	22:BC:269:ARG:CD	2.95	0.45
22:BC:243:ARG:HD3	22:BC:244:GLY:H	1.80	0.45
23:BD:61:ALA:CB	23:BD:83:ARG:HH22	2.29	0.45
23:BD:135:LEU:H	23:BD:135:LEU:CD2	2.28	0.45
23:BD:160:LYS:HE3	23:BD:160:LYS:O	2.16	0.45
24:BE:104:LEU:HD23	24:BE:104:LEU:HA	1.62	0.45
26:BG:109:THR:HG23	26:BG:118:GLY:HA3	1.98	0.45
26:BG:112:ALA:H	26:BG:213:LEU:HD13	1.81	0.45
27:BH:92:TYR:OH	27:BH:144:ILE:HD13	2.15	0.45
27:BH:157:ASN:O	27:BH:161:LEU:HG	2.17	0.45
33:BN:74:GLU:HG2	33:BN:77:VAL:HG22	1.97	0.45
33:BN:88:LYS:HD2	33:BN:89:PHE:H	1.80	0.45
36:BQ:74:VAL:HB	36:BQ:91:LEU:CG	2.45	0.45
40:BU:60:ARG:HA	40:BU:60:ARG:HD2	1.85	0.45
41:BV:68:TRP:CD1	41:BV:68:TRP:N	2.82	0.45
41:BV:74:LEU:CD1	41:BV:117:ILE:HG21	2.45	0.45
41:BV:86:ARG:HH22	41:BV:91:LYS:CG	2.28	0.45
45:BY:37:GLY:N	45:BY:44:ARG:HB2	2.31	0.45
47:B9:29:GLU:HB3	47:B9:31:GLN:C	2.36	0.45
1:AA:129(A):G:OP1	16:AQ:126:GLN:O	2.34	0.45
1:AA:625:G:H2'	1:AA:626:U:H6	1.80	0.45
1:AA:826:C:H2'	1:AA:827:U:H6	1.81	0.45
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.98	0.45
1:AA:1373:G:C5'	7:AG:104:GLY:O	2.64	0.45
1:AA:1435:G:H2'	1:AA:1436:U:H6	1.73	0.45
3:AB:106:PHE:CE2	3:AB:117:PRO:HG3	2.51	0.45
4:AC:31:GLU:CG	4:AC:51:ALA:CB	2.94	0.45
4:AC:105:LYS:CB	4:AC:174:VAL:CG2	2.94	0.45
6:AE:133:LEU:HD13	6:AE:134:SER:HB2	1.98	0.45
9:AI:45:PHE:HE2	9:AI:48:TYR:HE2	1.63	0.45
9:AI:97:ASP:OD1	9:AI:104:LEU:HD13	2.17	0.45
11:AK:26:PHE:HE2	11:AK:28:HIS:HD1	1.61	0.45
11:AK:47:VAL:CG1	11:AK:52:ASP:CA	2.93	0.45
13:AM:117:LYS:CE	13:AM:127:HIS:HB3	2.43	0.45
15:AO:74:LEU:CA	15:AO:89:TYR:HE1	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:94:ALA:CB	15:AO:117:ILE:HD12	2.46	0.45
18:B3:92:G:C8	44:BX:41:LEU:HB3	2.23	0.45
18:B3:194:A:H4'	31:BL:177:HIS:HB3	1.97	0.45
18:B3:279:C:H2'	18:B3:280:C:H6	1.81	0.45
18:B3:500:G:C2'	33:BN:16:ALA:CB	2.51	0.45
18:B3:622:G:H8	42:B0:36:LYS:CD	2.28	0.45
18:B3:1114:A:H2'	18:B3:1115:U:C6	2.51	0.45
18:B3:1116:U:O2'	18:B3:1226:G:C8	2.69	0.45
18:B3:1164:U:C5	30:BK:51:LYS:N	2.83	0.45
18:B3:1166:G:N3	30:BK:108:GLU:N	2.58	0.45
18:B3:1218:U:H2'	18:B3:1219:U:H6	1.80	0.45
18:B3:1586:G:H2'	18:B3:1587:U:O4'	2.16	0.45
18:B3:2004:U:H6	18:B3:2004:U:O5'	1.99	0.45
18:B3:2220:C:H4'	20:BA:210:MET:O	2.16	0.45
18:B3:2283:G:C4	28:BI:115:MET:HG2	2.47	0.45
18:B3:2347:C:C2'	29:BJ:17:VAL:HG21	2.46	0.45
19:B4:76:G:H3'	19:B4:77:A:C5'	2.21	0.45
20:BA:63:MET:SD	20:BA:109:ALA:HB2	2.56	0.45
20:BA:98:LYS:HD3	20:BA:98:LYS:C	2.37	0.45
21:BB:61:VAL:CG1	21:BB:62:PHE:H	2.28	0.45
21:BB:83:THR:OG1	47:B9:62:THR:N	2.49	0.45
21:BB:103:LEU:HD22	21:BB:103:LEU:HA	1.67	0.45
21:BB:171:GLY:CA	47:B9:66:GLY:C	2.84	0.45
22:BC:32:PRO:CD	22:BC:43:THR:HG21	2.45	0.45
22:BC:113:VAL:HG12	22:BC:117:PHE:HB2	1.97	0.45
22:BC:218:ALA:HB3	22:BC:330:ASN:CG	2.37	0.45
22:BC:270:GLY:C	22:BC:271:TYR:CD1	2.90	0.45
22:BC:351:GLU:H	22:BC:351:GLU:CD	2.19	0.45
24:BE:63:GLN:CG	24:BE:74:VAL:CG2	2.95	0.45
25:BF:107:LEU:HD13	25:BF:107:LEU:N	2.31	0.45
25:BF:168:ILE:HD13	25:BF:179:SER:OG	2.16	0.45
27:BH:18:VAL:CG1	27:BH:26:LYS:CE	2.95	0.45
27:BH:115:ARG:HA	27:BH:123:ILE:HG13	1.98	0.45
27:BH:137:SER:HB2	27:BH:142:ASP:H	1.80	0.45
28:BI:103:LEU:H	28:BI:112:GLN:HB3	1.81	0.45
28:BI:128:ARG:HB2	28:BI:128:ARG:CZ	2.46	0.45
30:BK:25:SER:HA	30:BK:29:ALA:HB3	1.98	0.45
30:BK:85:LEU:HD12	30:BK:85:LEU:O	2.15	0.45
30:BK:93:LYS:CE	30:BK:96:LYS:CB	2.95	0.45
31:BL:76:LYS:CD	31:BL:76:LYS:H	2.29	0.45
31:BL:114:VAL:HB	31:BL:133:LEU:HD22	1.96	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BL:186:ARG:HD3	31:BL:187:ARG:HB3	1.98	0.45
33:BN:59:PHE:CD2	33:BN:81:ARG:CD	2.95	0.45
34:BO:100:THR:HG21	34:BO:120:GLU:O	2.16	0.45
35:BP:57:HIS:CD2	35:BP:59:LYS:CG	2.99	0.45
36:BQ:57:TYR:CE2	36:BQ:76:ILE:HG21	2.50	0.45
37:BR:67:PRO:C	37:BR:69:LEU:H	2.18	0.45
40:BU:55:GLU:HB2	40:BU:108:LYS:HB3	1.97	0.45
40:BU:82:VAL:HG12	40:BU:83:ASP:OD1	2.15	0.45
41:BV:138:ARG:HG2	41:BV:138:ARG:O	2.16	0.45
43:BW:77:LYS:HD2	43:BW:77:LYS:C	2.37	0.45
44:BX:33:VAL:C	44:BX:35:LYS:H	2.19	0.45
47:B9:28:LEU:CD2	47:B9:32:GLN:CB	2.94	0.45
47:B9:67:ALA:HB3	47:B9:68:TYR:CE1	2.52	0.45
1:AA:116:A:H2'	1:AA:117:G:O4'	2.17	0.45
1:AA:319:G:O2'	1:AA:320:C:H5'	2.16	0.45
1:AA:600:C:O2'	1:AA:601:C:H5'	2.17	0.45
1:AA:878:G:OP1	8:AH:84:ASP:OD1	2.34	0.45
1:AA:988:G:C5	1:AA:1015:A:N3	2.70	0.45
1:AA:1344:C:H5'	9:AI:136:ARG:HB3	1.98	0.45
2:AT:464:LEU:HB3	2:AT:509:LYS:O	2.16	0.45
5:AD:118:LEU:CD1	5:AD:164:PHE:CE1	2.99	0.45
5:AD:136:VAL:CG2	5:AD:141:VAL:CG2	2.95	0.45
6:AE:187:LEU:CD2	6:AE:195:VAL:HG21	2.43	0.45
9:AI:45:PHE:CE1	9:AI:77:VAL:HG22	2.49	0.45
11:AK:40:ARG:CB	11:AK:66:VAL:CG2	2.94	0.45
17:AS:47:ARG:O	17:AS:47:ARG:HG2	2.15	0.45
17:AS:83:MET:HE1	17:AS:116:LEU:CD1	2.47	0.45
18:B3:26:U:O2	18:B3:1319:G:H2'	2.17	0.45
18:B3:78:G:HO2'	40:BU:25:SER:CA	2.28	0.45
18:B3:629:A:H5'	42:B0:38:ILE:C	2.36	0.45
18:B3:730:G:H4'	41:BV:132:LEU:CD1	2.44	0.45
18:B3:1335:C:OP2	42:B0:100:ILE:N	2.49	0.45
18:B3:1355:A:OP1	18:B3:1355:A:C4'	2.63	0.45
18:B3:1741:U:C4'	18:B3:2723:G:O3'	2.62	0.45
18:B3:1902:G:H2'	18:B3:1903:U:C6	2.51	0.45
18:B3:2109:U:O4	41:BV:39:HIS:CD2	2.65	0.45
18:B3:2382:A:C4'	46:BZ:12:LYS:CB	2.94	0.45
18:B3:2563:U:H2'	18:B3:2565:C:O5'	2.17	0.45
18:B3:2655:U:H6	22:BC:261:TRP:CE2	2.34	0.45
18:B3:2716:G:HO2'	18:B3:2717:C:H5'	1.81	0.45
18:B3:2737:C:H41	35:BP:61:ARG:NE	1.94	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:3:A:N7	19:B4:25:G:N2	2.62	0.45
19:B4:7:G:N7	24:BE:22:ARG:HD2	2.28	0.45
19:B4:34:A:H2'	24:BE:202:GLY:O	2.16	0.45
20:BA:52:SER:C	20:BA:53:LEU:HD23	2.35	0.45
20:BA:90:LEU:CG	20:BA:124:LEU:HD11	2.39	0.45
21:BB:4:ILE:CG1	21:BB:208:HIS:HA	2.47	0.45
21:BB:174:VAL:HG23	21:BB:174:VAL:O	2.16	0.45
21:BB:208:HIS:HB3	21:BB:209:PRO:HD2	1.99	0.45
21:BB:241:ARG:HB3	21:BB:241:ARG:CZ	2.45	0.45
22:BC:81:PRO:HD2	22:BC:319:ASP:HB2	1.98	0.45
22:BC:206:SER:N	22:BC:208:PHE:CD1	2.82	0.45
22:BC:234:THR:CG2	22:BC:246:ARG:HD2	2.46	0.45
22:BC:328:PRO:HG2	22:BC:330:ASN:HD22	1.80	0.45
23:BD:208:TYR:HE2	23:BD:224:VAL:HG21	1.70	0.45
24:BE:17:GLN:OE1	36:BQ:19:PHE:C	2.52	0.45
24:BE:18:THR:HG22	24:BE:19:PRO:N	2.31	0.45
24:BE:95:TRP:O	24:BE:99:TYR:CD2	2.68	0.45
25:BF:116:VAL:CG1	25:BF:122:THR:CG2	2.95	0.45
25:BF:142:THR:HG21	25:BF:236:ASN:OD1	2.17	0.45
26:BG:109:THR:CG2	26:BG:118:GLY:HA3	2.47	0.45
26:BG:115:VAL:HB	26:BG:210:LEU:HD22	1.97	0.45
27:BH:62:ARG:HB3	32:BM:129:LYS:HE3	1.74	0.45
28:BI:51:HIS:HE1	28:BI:149:VAL:CG2	2.24	0.45
31:BL:82:LYS:HZ1	46:BZ:49:PHE:CA	2.22	0.45
31:BL:167:GLY:C	31:BL:171:ARG:HH12	2.19	0.45
31:BL:188:LYS:HG3	31:BL:189:THR:N	2.23	0.45
32:BM:8:ILE:HD11	32:BM:18:LEU:HD21	1.96	0.45
32:BM:27:LEU:HD23	32:BM:27:LEU:C	2.36	0.45
32:BM:72:PHE:CB	32:BM:77:ARG:CB	2.93	0.45
34:BO:79:LYS:CG	34:BO:138:LEU:CD1	2.95	0.45
35:BP:98:LEU:O	35:BP:98:LEU:HD22	2.16	0.45
35:BP:115:ASP:C	35:BP:116:LYS:HG3	2.37	0.45
37:BR:37:ILE:CG2	37:BR:59:MET:CB	2.94	0.45
37:BR:61:THR:HG22	37:BR:62:VAL:N	2.32	0.45
37:BR:72:LYS:C	37:BR:73:VAL:HG22	2.35	0.45
41:BV:75:ASP:CG	41:BV:114:LYS:HE3	2.36	0.45
41:BV:104:LEU:HD12	41:BV:108:TYR:OH	2.17	0.45
45:BY:33:CYS:CA	45:BY:38:TYR:CE1	2.94	0.45
46:BZ:62:LYS:HD3	46:BZ:63:THR:N	2.31	0.45
47:B9:30:ILE:HD13	47:B9:30:ILE:C	2.37	0.45
1:AA:155:C:H2'	1:AA:156:G:H8	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:190(B):C:H2'	1:AA:190(C):C:O4'	2.16	0.45
1:AA:239:U:C1'	1:AA:288:A:N3	2.77	0.45
1:AA:404:U:C2	5:AD:36:LEU:HD13	2.52	0.45
1:AA:913:A:OP1	12:AL:62:LYS:HD2	2.16	0.45
1:AA:1348:U:C3'	9:AI:134:ARG:CB	2.91	0.45
1:AA:1420:C:O5'	18:B3:1991:A:H5'	1.78	0.45
1:AA:1442:G:N3	1:AA:1442:G:C2'	2.79	0.45
2:AT:757:GLU:OE1	18:B3:1171:A:N3	2.49	0.45
3:AB:26:ARG:O	3:AB:27:ASN:HB2	2.16	0.45
4:AC:172:ARG:HH21	4:AC:173:HIS:CD2	2.33	0.45
9:AI:34:PRO:HD2	9:AI:37:LEU:HD23	1.98	0.45
10:AJ:69:LYS:CA	14:AN:39:ARG:HH11	2.28	0.45
11:AK:56:PRO:HG3	11:AK:92:THR:HG21	1.97	0.45
11:AK:101:LEU:CD1	11:AK:114:ILE:CG1	2.95	0.45
13:AM:101:LEU:O	13:AM:102:ALA:HB3	2.16	0.45
15:AO:90:LEU:CD2	15:AO:121:ILE:CG1	2.94	0.45
16:AQ:74:VAL:O	16:AQ:118:VAL:HG23	2.17	0.45
18:B3:375:G:H21	18:B3:411:A:P	2.35	0.45
18:B3:549:A:O2'	18:B3:550:C:H5'	2.16	0.45
18:B3:843:A:C3'	33:BN:131:ALA:N	2.64	0.45
18:B3:947:U:O2'	18:B3:948:G:H5'	2.16	0.45
18:B3:1119:G:H2'	32:BM:48:ARG:HD3	1.97	0.45
18:B3:1192:A:H2	30:BK:105:GLN:N	2.14	0.45
18:B3:1350:U:H4'	23:BD:45:LYS:H	1.81	0.45
18:B3:1653:A:O4'	21:BB:186:HIS:CD2	2.68	0.45
18:B3:2051:G:H5"	33:BN:86:SER:N	2.20	0.45
18:B3:2074:A:O2'	18:B3:2075:G:P	2.75	0.45
18:B3:2216:A:O2'	18:B3:2217:U:C6	2.70	0.45
18:B3:2424:U:O2'	36:BQ:6:GLY:C	2.55	0.45
18:B3:2429:A:H2'	18:B3:2430:A:C8	2.51	0.45
18:B3:2515:C:H2'	18:B3:2516:G:H5'	1.98	0.45
18:B3:2713:G:H5'	37:BR:44:SER:C	2.29	0.45
18:B3:2718:C:OP1	22:BC:331:ARG:NH2	2.49	0.45
18:B3:2772:G:O2'	18:B3:2773:G:H5'	2.15	0.45
18:B3:2822:C:C5'	22:BC:133:SER:CB	2.94	0.45
19:B4:88:G:N7	25:BF:220:LYS:NZ	2.65	0.45
20:BA:97:LYS:C	20:BA:100:ILE:HG22	2.36	0.45
22:BC:220:THR:CB	22:BC:272:HIS:HB2	2.46	0.45
22:BC:336:THR:CG2	22:BC:337:LEU:N	2.79	0.45
23:BD:134:VAL:CG2	23:BD:147:ILE:HD11	2.47	0.45
23:BD:145:PRO:O	23:BD:147:ILE:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:161:THR:N	23:BD:217:ALA:HB1	2.32	0.45
23:BD:221:VAL:CG1	23:BD:224:VAL:CG1	2.94	0.45
24:BE:110:LEU:HA	24:BE:115:LEU:CD1	2.45	0.45
24:BE:148:ILE:HB	24:BE:151:GLN:CD	2.37	0.45
24:BE:148:ILE:HD13	24:BE:148:ILE:H	1.82	0.45
27:BH:23:ARG:HD3	27:BH:37:ASN:OD1	2.16	0.45
27:BH:107:ASP:HA	27:BH:112:ILE:HG13	1.94	0.45
28:BI:34:TYR:CD1	28:BI:34:TYR:N	2.83	0.45
28:BI:54:SER:HB2	28:BI:135:ILE:HD11	1.98	0.45
29:BJ:71:ARG:CD	29:BJ:74:LYS:N	2.79	0.45
29:BJ:95:PHE:CB	29:BJ:101:PHE:HB2	2.30	0.45
32:BM:26:LEU:CD2	32:BM:97:ALA:CA	2.95	0.45
32:BM:45:GLU:OE2	32:BM:135:THR:HG23	2.16	0.45
32:BM:52:LYS:H	32:BM:58:ARG:HG2	1.81	0.45
32:BM:113:LYS:HB3	32:BM:115:LYS:CE	2.44	0.45
33:BN:63:ASN:HB2	33:BN:66:ILE:CG1	2.27	0.45
33:BN:69:THR:HG21	33:BN:73:LYS:O	2.15	0.45
34:BO:62:VAL:CG1	34:BO:88:THR:N	2.80	0.45
35:BP:8:ARG:C	35:BP:9:LEU:HD23	2.36	0.45
35:BP:22:TRP:CD2	35:BP:50:VAL:N	2.85	0.45
35:BP:22:TRP:HA	35:BP:51:LYS:HD2	1.99	0.45
39:BT:82:VAL:HB	39:BT:83:PHE:H	1.21	0.45
39:BT:86:SER:CB	39:BT:89:ALA:HB2	2.46	0.45
39:BT:120:LYS:HG3	39:BT:121:ALA:N	2.32	0.45
40:BU:31:LEU:HD21	40:BU:78:PHE:C	2.36	0.45
40:BU:60:ARG:CZ	40:BU:60:ARG:CA	2.94	0.45
40:BU:87:LYS:HA	40:BU:94:SER:OG	2.16	0.45
42:B0:41:VAL:HA	42:B0:44:ARG:HH21	1.80	0.45
44:BX:8:GLU:OE1	44:BX:12:LYS:HE3	2.16	0.45
44:BX:17:LEU:CD2	44:BX:54:VAL:CG2	2.93	0.45
47:B9:22:ARG:CD	47:B9:24:GLN:HG2	2.21	0.45
47:B9:31:GLN:HG2	47:B9:32:GLN:N	2.32	0.45
47:B9:48:ARG:HD2	47:B9:48:ARG:N	2.25	0.45
1:AA:57:G:O4'	1:AA:368:U:N3	2.49	0.45
1:AA:370:C:C2'	1:AA:371:G:H5'	2.46	0.45
1:AA:393:A:C2'	1:AA:394:G:H5'	2.46	0.45
1:AA:1075:C:H5'	3:AB:102:THR:CA	2.34	0.45
1:AA:1075:C:OP1	3:AB:102:THR:C	2.55	0.45
1:AA:1176:A:H2'	9:AI:107:ALA:C	2.37	0.45
1:AA:1191:A:H2'	1:AA:1192:C:H6	1.81	0.45
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1420:C:H5"	18:B3:1991:A:C4'	2.13	0.45
3:AB:74:ALA:HA	3:AB:121:ILE:HG22	1.97	0.45
3:AB:122:VAL:CG1	3:AB:144:ALA:CB	2.95	0.45
4:AC:16:PHE:O	4:AC:19:GLU:HB3	2.16	0.45
5:AD:101:VAL:HG23	5:AD:191:ALA:HB2	1.99	0.45
5:AD:101:VAL:HG22	5:AD:115:LYS:HZ3	1.80	0.45
5:AD:102:GLU:O	5:AD:190:GLU:HB2	2.16	0.45
6:AE:115:LYS:CE	6:AE:130:ILE:HD13	2.46	0.45
6:AE:115:LYS:HB3	6:AE:126:ALA:CB	2.46	0.45
6:AE:210:LEU:HD12	6:AE:211:LYS:CA	2.46	0.45
8:AH:104:THR:CB	8:AH:125:LEU:HD11	2.47	0.45
9:AI:42:ILE:CG1	9:AI:45:PHE:HB2	2.46	0.45
10:AJ:56:VAL:HG11	10:AJ:90:TYR:HB2	1.97	0.45
10:AJ:85:ARG:HB3	10:AJ:85:ARG:HE	1.48	0.45
12:AL:68:ILE:HG23	12:AL:70:LYS:HZ3	1.82	0.45
15:AO:81:PRO:O	15:AO:82:GLU:HB2	2.16	0.45
16:AQ:87:ARG:CD	16:AQ:89:TYR:HD1	2.29	0.45
18:B3:20:G:O2'	33:BN:5:ALA:N	2.41	0.45
18:B3:26:U:C6	18:B3:1319:G:O2'	2.68	0.45
18:B3:122:C:H5'	39:BT:117:GLY:O	2.16	0.45
18:B3:164:G:C3'	41:BV:31:ARG:CB	2.84	0.45
18:B3:204:A:O2'	18:B3:205:U:H5'	2.16	0.45
18:B3:390:G:OP2	46:BZ:47:SER:HB3	2.16	0.45
18:B3:618:G:H8	42:B0:46:PHE:CG	2.29	0.45
18:B3:631:A:N3	18:B3:2073:G:O2'	2.49	0.45
18:B3:664:U:P	23:BD:114:HIS:HB2	2.56	0.45
18:B3:820:G:O2'	18:B3:856:G:H4'	2.17	0.45
18:B3:1024:G:O2'	25:BF:104:LEU:CG	2.59	0.45
18:B3:1149:U:H4'	18:B3:1150:A:H5"	1.98	0.45
18:B3:1398:G:C4'	35:BP:25:PRO:CG	2.94	0.45
18:B3:1450:C:C4'	18:B3:1451:C:OP2	2.64	0.45
18:B3:1470:A:C4'	31:BL:95:ARG:HD2	2.40	0.45
18:B3:1508:C:H5'	39:BT:77:ASP:OD2	2.16	0.45
18:B3:1742:A:C8	18:B3:2723:G:O4'	2.70	0.45
18:B3:1805:G:C2	18:B3:2882:G:O2'	2.62	0.45
18:B3:1869:A:H1'	21:BB:10:GLY:HA2	1.96	0.45
18:B3:2109:U:C1'	41:BV:40:HIS:HE2	2.29	0.45
18:B3:2251:G:C2	18:B3:2252:A:C4	3.05	0.45
18:B3:2347:C:O2	29:BJ:17:VAL:HG22	2.17	0.45
18:B3:2688:U:O2'	18:B3:2689:A:H5'	2.17	0.45
18:B3:2793:A:H2'	18:B3:2794:G:H5'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2826:G:C2'	22:BC:123:LYS:HA	2.34	0.45
20:BA:24:LYS:HZ3	20:BA:25:LYS:HE2	1.82	0.45
20:BA:117:ILE:O	20:BA:121:PRO:HG2	2.16	0.45
20:BA:120:VAL:HG23	20:BA:124:LEU:HD22	1.98	0.45
20:BA:179:LEU:CD1	20:BA:183:ILE:CD1	2.94	0.45
21:BB:1:GLY:C	21:BB:206:VAL:HG23	2.37	0.45
21:BB:6:ASN:HA	21:BB:8:ARG:NH2	2.30	0.45
21:BB:102:PRO:CD	21:BB:162:ARG:HA	2.47	0.45
21:BB:116:GLU:HB2	21:BB:121:ASP:O	2.17	0.45
21:BB:179:LEU:HD12	21:BB:179:LEU:N	2.32	0.45
21:BB:183:ARG:HA	21:BB:183:ARG:NE	2.31	0.45
22:BC:111:ASP:C	22:BC:114:LYS:HZ1	2.19	0.45
22:BC:172:GLN:HG3	22:BC:173:LYS:CE	2.47	0.45
22:BC:304:ILE:CD1	22:BC:322:MET:CE	2.95	0.45
23:BD:35:HIS:HA	23:BD:38:PHE:CE1	2.38	0.45
23:BD:191:GLY:HA3	23:BD:194:ARG:HH11	1.80	0.45
23:BD:221:VAL:HG11	23:BD:224:VAL:CG1	2.47	0.45
24:BE:75:LEU:CD2	24:BE:75:LEU:H	2.29	0.45
26:BG:149:LEU:HD22	26:BG:149:LEU:H	1.80	0.45
26:BG:151:LEU:HD11	26:BG:185:LEU:HB3	1.99	0.45
28:BI:153:ARG:HB3	28:BI:153:ARG:CZ	2.45	0.45
30:BK:60:VAL:HG23	30:BK:60:VAL:O	2.16	0.45
30:BK:73:VAL:HB	30:BK:75:PRO:HG3	1.99	0.45
31:BL:156:LYS:HD3	31:BL:157:HIS:H	1.81	0.45
32:BM:11:LYS:O	32:BM:40:LEU:HA	2.17	0.45
32:BM:133:LYS:HG2	32:BM:133:LYS:O	2.16	0.45
33:BN:35:ILE:CB	33:BN:43:ALA:CB	2.93	0.45
33:BN:91:GLN:HG2	33:BN:94:LEU:HD11	1.97	0.45
35:BP:3:LEU:CD1	35:BP:32:ALA:CA	2.95	0.45
35:BP:22:TRP:HE1	35:BP:49:ILE:HD13	1.82	0.45
35:BP:44:VAL:CG1	35:BP:45:LYS:N	2.79	0.45
36:BQ:96:ILE:HG22	36:BQ:97:LYS:O	2.16	0.45
37:BR:32:ARG:CB	37:BR:65:GLY:N	2.80	0.45
37:BR:44:SER:OG	37:BR:48:ARG:HB3	2.17	0.45
37:BR:80:ARG:CZ	37:BR:80:ARG:CA	2.90	0.45
38:BS:23:ARG:CD	38:BS:28:ILE:CG1	2.94	0.45
40:BU:14:LYS:HE3	40:BU:18:ALA:CB	2.40	0.45
40:BU:19:TYR:HB3	40:BU:20:PHE:H	1.50	0.45
40:BU:21:THR:O	40:BU:21:THR:HG22	2.16	0.45
40:BU:40:ARG:CZ	40:BU:41:ALA:CB	2.95	0.45
40:BU:58:VAL:N	40:BU:67:GLU:CG	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:84:LYS:HD2	40:BU:84:LYS:H	1.80	0.45
40:BU:100:HIS:CG	40:BU:101:PRO:HA	2.52	0.45
40:BU:109:LEU:HD22	40:BU:111:LEU:CD1	2.46	0.45
41:BV:129:VAL:CG2	41:BV:133:ALA:CB	2.94	0.45
43:BW:17:LYS:CD	43:BW:66:VAL:HB	2.46	0.45
44:BX:17:LEU:HD11	44:BX:54:VAL:HG22	1.98	0.45
47:B9:22:ARG:CZ	47:B9:22:ARG:N	2.80	0.45
1:AA:190(E):U:OP2	16:AQ:136:PHE:C	2.55	0.45
1:AA:260:G:O2'	1:AA:261:U:H5'	2.17	0.45
1:AA:335:C:H2'	1:AA:336:C:H6	1.82	0.45
1:AA:337:C:H5'	1:AA:1468:A:C2	2.52	0.45
1:AA:560:U:O5'	1:AA:560:U:H6	1.99	0.45
1:AA:777:A:H2'	11:AK:126:ARG:CD	2.33	0.45
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.32	0.45
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.81	0.45
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.81	0.45
1:AA:1318:A:O3'	17:AS:84:ILE:CG2	2.65	0.45
1:AA:1344:C:H5'	9:AI:136:ARG:CA	2.47	0.45
1:AA:1375:A:N6	7:AG:76:TYR:HH	2.13	0.45
1:AA:1420:C:P	18:B3:1991:A:H5'	2.57	0.45
2:AT:16:VAL:O	2:AT:345:PRO:HD2	2.17	0.45
2:AT:718:LEU:HA	2:AT:722:PRO:HG3	1.99	0.45
3:AB:75:ILE:HD12	3:AB:97:ILE:O	2.17	0.45
5:AD:39:LYS:CG	5:AD:40:LYS:H	2.12	0.45
9:AI:50:PRO:CD	9:AI:115:LEU:HD13	2.45	0.45
9:AI:132:GLY:O	9:AI:133:ALA:HB2	2.16	0.45
13:AM:101:LEU:C	13:AM:105:VAL:HG23	2.37	0.45
15:AO:75:LYS:HD2	15:AO:76:SER:HA	1.99	0.45
15:AO:82:GLU:HA	15:AO:85:GLU:CB	2.46	0.45
17:AS:90:ILE:HG23	17:AS:109:PRO:HD3	1.99	0.45
18:B3:18:C:H2'	18:B3:19:U:C6	2.51	0.45
18:B3:438:C:O2'	18:B3:439:A:P	2.75	0.45
18:B3:492:C:O2	33:BN:100:ASN:CB	2.65	0.45
18:B3:677:C:O4'	23:BD:231:SER:N	2.43	0.45
18:B3:698:A:OP1	41:BV:132:LEU:C	2.47	0.45
18:B3:858:U:H2'	18:B3:859:C:H6	1.82	0.45
18:B3:944:G:HO2'	25:BF:97:LYS:HE2	1.79	0.45
18:B3:945:U:O2'	18:B3:946:C:H5'	2.16	0.45
18:B3:1183:C:C3'	30:BK:85:LEU:HD12	2.47	0.45
18:B3:1206:C:O2'	18:B3:1207:A:P	2.75	0.45
18:B3:1295:G:OP1	41:BV:17:GLY:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1348:A:O2'	23:BD:38:PHE:O	2.33	0.45
18:B3:1385:G:H4'	43:BW:49:ARG:CA	2.46	0.45
18:B3:1396:C:O2'	35:BP:2:ASN:ND2	2.49	0.45
18:B3:1431:C:O2	33:BN:138:TYR:CE1	2.69	0.45
18:B3:1469:C:P	31:BL:66:ARG:HG2	2.57	0.45
18:B3:1787:C:O2	18:B3:2882:G:C3'	2.64	0.45
18:B3:2064:U:H5'	18:B3:2652:U:H4'	1.97	0.45
18:B3:2167:A:O2'	18:B3:2168:G:OP2	2.34	0.45
18:B3:2255:A:H2'	18:B3:2256:G:O4'	2.16	0.45
18:B3:2283:G:C5	28:BI:106:ALA:HB2	2.50	0.45
18:B3:2310:G:O3'	28:BI:119:TRP:CE2	2.47	0.45
18:B3:2347:C:O2'	29:BJ:68:VAL:C	2.51	0.45
18:B3:2653:A:C5'	22:BC:256:PRO:HB3	2.47	0.45
19:B4:50:G:C2	24:BE:58:LYS:N	2.78	0.45
20:BA:64:SER:HB3	20:BA:107:TYR:CE2	2.52	0.45
20:BA:67:ILE:CG2	20:BA:84:ALA:HA	2.47	0.45
20:BA:97:LYS:HA	20:BA:100:ILE:CG2	2.46	0.45
21:BB:57:LEU:CB	21:BB:74:ILE:CG2	2.95	0.45
21:BB:172:GLY:H	47:B9:67:ALA:HB3	1.78	0.45
21:BB:203:MET:CG	21:BB:207:ASP:CB	2.95	0.45
22:BC:10:HIS:HB2	22:BC:232:TRP:CD1	2.52	0.45
22:BC:120:ASN:CB	22:BC:129:PHE:HD1	2.28	0.45
22:BC:168:THR:CG2	22:BC:171:ALA:CB	2.94	0.45
22:BC:304:ILE:CD1	22:BC:322:MET:HE2	2.47	0.45
22:BC:327:ILE:HB	22:BC:328:PRO:HA	1.99	0.45
23:BD:137:ARG:HG2	23:BD:137:ARG:HH11	1.82	0.45
23:BD:201:ARG:C	23:BD:202:ARG:HD3	2.37	0.45
23:BD:248:ILE:O	23:BD:248:ILE:HG23	2.17	0.45
24:BE:37:VAL:HG23	24:BE:48:LYS:HA	1.99	0.45
24:BE:63:GLN:CG	24:BE:74:VAL:HG21	2.46	0.45
25:BF:82:LEU:CD1	25:BF:188:ILE:CD1	2.95	0.45
27:BH:90:MET:HB2	27:BH:181:VAL:CA	2.39	0.45
27:BH:90:MET:HB2	27:BH:182:SER:N	2.32	0.45
27:BH:94:TYR:CD1	27:BH:95:ALA:N	2.84	0.45
27:BH:151:VAL:O	27:BH:152:GLU:HB3	2.17	0.45
28:BI:31:ILE:HD11	28:BI:69:ARG:HD3	1.98	0.45
28:BI:48:LEU:O	28:BI:139:ARG:HG3	2.17	0.45
28:BI:152:LEU:N	28:BI:152:LEU:HD12	2.30	0.45
31:BL:43:ARG:CG	31:BL:46:LYS:CE	2.94	0.45
31:BL:50:LEU:CD2	31:BL:118:TYR:CE2	2.94	0.45
31:BL:139:LYS:C	31:BL:141:ILE:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:89:HIS:CG	32:BM:90:LYS:N	2.85	0.45
32:BM:93:ARG:HD3	32:BM:93:ARG:O	2.17	0.45
33:BN:26:LYS:HB2	33:BN:62:PHE:CE1	2.51	0.45
33:BN:66:ILE:CG1	33:BN:79:LYS:CD	2.94	0.45
34:BO:46:LYS:HD3	34:BO:46:LYS:O	2.16	0.45
34:BO:59:ARG:HG2	34:BO:85:GLY:HA3	1.99	0.45
34:BO:83:VAL:CG2	34:BO:103:ALA:CB	2.95	0.45
35:BP:96:ARG:HA	35:BP:96:ARG:HE	1.82	0.45
36:BQ:11:THR:O	36:BQ:12:ARG:HG2	2.17	0.45
36:BQ:25:VAL:HG23	36:BQ:30:TYR:CE2	2.52	0.45
37:BR:13:ILE:HD13	37:BR:14:SER:N	2.31	0.45
37:BR:116:GLY:HA2	37:BR:117:PRO:HD3	1.68	0.45
39:BT:80:ILE:HG23	39:BT:81:LEU:N	2.31	0.45
40:BU:58:VAL:HG23	40:BU:103:LYS:CE	2.46	0.45
42:B0:100:ILE:HD13	42:B0:100:ILE:N	2.19	0.45
43:BW:52:PRO:CB	43:BW:56:GLN:HE22	2.30	0.45
47:B9:55:THR:HG22	47:B9:61:LYS:CG	2.41	0.45
1:AA:55:A:N1	2:AT:68:ILE:HG13	2.32	0.45
1:AA:122:G:N2	1:AA:288:A:C2	2.81	0.45
1:AA:320:C:C4'	1:AA:1436:U:N1	2.60	0.45
1:AA:328:C:O2	1:AA:328:C:C2'	2.58	0.45
1:AA:500:G:C6	5:AD:25:ASP:OD2	2.70	0.45
1:AA:542:G:H2'	1:AA:543:C:H6	1.80	0.45
1:AA:839:U:O2	1:AA:839:U:C2'	2.58	0.45
1:AA:1322:C:N4	17:AS:81:ARG:NH1	2.48	0.45
1:AA:1330:U:C1'	13:AM:93:THR:HB	2.47	0.45
2:AT:500:ASP:CG	2:AT:552:VAL:HG11	2.37	0.45
3:AB:44:VAL:O	3:AB:44:VAL:HG23	2.17	0.45
4:AC:114:ILE:HG23	4:AC:115:ARG:N	2.32	0.45
5:AD:69:ARG:CZ	5:AD:76:LEU:CD2	2.95	0.45
6:AE:169:ILE:HG22	6:AE:196:TYR:HB3	1.90	0.45
8:AH:103:LEU:HD21	8:AH:124:ILE:HG22	1.95	0.45
9:AI:19:ALA:HB3	9:AI:83:ALA:HB1	1.93	0.45
9:AI:51:LEU:CA	9:AI:58:LYS:CG	2.95	0.45
9:AI:99:GLN:CB	9:AI:115:LEU:H	2.24	0.45
10:AJ:79:TRP:N	14:AN:39:ARG:CD	2.80	0.45
11:AK:12:VAL:HA	11:AK:74:GLY:O	2.16	0.45
11:AK:15:VAL:HG13	11:AK:81:LYS:NZ	2.32	0.45
12:AL:88:PRO:HD2	12:AL:124:VAL:CG2	2.47	0.45
12:AL:127:VAL:HA	12:AL:135:LEU:HD13	1.99	0.45
13:AM:132:ARG:HD3	13:AM:145:ARG:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:70:LEU:HD22	16:AQ:87:ARG:NH2	2.32	0.45
18:B3:72:C:C3'	44:BX:49:LYS:HZ1	2.29	0.45
18:B3:168:C:O2'	18:B3:169:A:H5'	2.16	0.45
18:B3:449:A:H2'	18:B3:1350:U:C2	2.39	0.45
18:B3:473:A:H5"	45:BY:48:TRP:NE1	2.32	0.45
18:B3:695:C:H2'	18:B3:696:C:H6	1.82	0.45
18:B3:816:G:C6	18:B3:817:G:N1	2.85	0.45
18:B3:938:G:O2'	18:B3:939:A:C8	2.70	0.45
18:B3:1057:A:O5'	28:BI:108:ALA:HB1	2.17	0.45
18:B3:1086:A:OP2	25:BF:89:LYS:HE2	2.16	0.45
18:B3:1183:C:C3'	30:BK:103:ASN:H	1.93	0.45
18:B3:1352:A:P	23:BD:49:TYR:H	2.40	0.45
18:B3:1708:C:P	35:BP:87:ARG:HD3	2.56	0.45
18:B3:1814:G:N7	18:B3:2731:G:H2'	2.31	0.45
18:B3:1899:C:C1'	21:BB:223:THR:CG2	2.94	0.45
18:B3:2345:A:H1'	29:BJ:23:GLY:CA	2.44	0.45
18:B3:2692:G:C8	18:B3:2693:U:C5	3.03	0.45
18:B3:2711:U:H4'	37:BR:39:VAL:O	2.16	0.45
18:B3:2847:G:H3'	22:BC:173:LYS:HE2	1.98	0.45
19:B4:50:G:OP2	24:BE:98:ALA:HB2	2.17	0.45
20:BA:67:ILE:HD11	20:BA:144:LEU:HD21	1.99	0.45
21:BB:29:ARG:HE	21:BB:89:ALA:HB2	1.81	0.45
22:BC:20:ARG:N	22:BC:20:ARG:CD	2.80	0.45
22:BC:162:HIS:HE2	22:BC:164:GLN:HG3	1.79	0.45
22:BC:176:HIS:HE1	22:BC:335:VAL:CG1	2.28	0.45
22:BC:217:ILE:CG2	22:BC:275:THR:HB	2.45	0.45
22:BC:228:VAL:HG21	22:BC:246:ARG:CD	2.43	0.45
22:BC:259:VAL:CG2	22:BC:261:TRP:HA	2.47	0.45
23:BD:149:LEU:CD2	23:BD:246:PHE:HE2	2.28	0.45
24:BE:39:GLN:HB2	24:BE:145:PHE:CE1	2.51	0.45
24:BE:64:ILE:HG22	24:BE:76:ALA:O	2.16	0.45
24:BE:185:PHE:CD1	24:BE:203:HIS:ND1	2.85	0.45
25:BF:107:LEU:O	25:BF:107:LEU:HD22	2.16	0.45
25:BF:152:PHE:N	25:BF:152:PHE:CD1	2.83	0.45
26:BG:110:LYS:N	26:BG:118:GLY:H	2.06	0.45
26:BG:121:LYS:HE2	26:BG:210:LEU:CB	2.43	0.45
26:BG:149:LEU:CD2	26:BG:210:LEU:HD21	2.47	0.45
26:BG:149:LEU:CD1	26:BG:214:VAL:CG1	2.94	0.45
27:BH:54:LYS:CD	27:BH:72:LYS:HE2	2.35	0.45
28:BI:6:ALA:HB1	28:BI:10:ARG:NH2	2.32	0.45
28:BI:99:ILE:CD1	28:BI:121:LYS:CD	2.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:145:LYS:HD3	28:BI:145:LYS:C	2.37	0.45
29:BJ:8:MET:HE3	29:BJ:9:ARG:CD	2.47	0.45
29:BJ:83:LEU:HD21	29:BJ:90:LEU:HD11	1.99	0.45
31:BL:69:ASN:C	31:BL:70:ARG:HD3	2.37	0.45
31:BL:103:GLU:O	31:BL:104:ARG:HB2	2.17	0.45
31:BL:177:HIS:CD2	31:BL:178:LYS:H	2.34	0.45
32:BM:17:ARG:NE	32:BM:17:ARG:H	2.15	0.45
33:BN:57:ILE:HA	33:BN:58:PRO:HD3	1.69	0.45
33:BN:68:ARG:N	33:BN:79:LYS:HB3	2.31	0.45
35:BP:3:LEU:HB3	35:BP:6:GLN:CG	2.44	0.45
35:BP:92:VAL:CA	35:BP:95:ILE:CD1	2.94	0.45
37:BR:53:SER:O	37:BR:78:VAL:HG11	2.17	0.45
38:BS:39:LEU:HD23	38:BS:39:LEU:C	2.36	0.45
39:BT:80:ILE:CG1	39:BT:81:LEU:N	2.79	0.45
40:BU:58:VAL:HG11	40:BU:63:LYS:O	2.17	0.45
40:BU:74:TYR:C	40:BU:74:TYR:CD1	2.90	0.45
41:BV:98:ALA:CB	41:BV:125:LYS:HE2	2.46	0.45
43:BW:28:ALA:CB	43:BW:59:TRP:CD1	2.94	0.45
44:BX:44:ILE:O	44:BX:44:ILE:HG23	2.17	0.45
46:BZ:1:VAL:HG12	46:BZ:91:GLU:OE2	2.17	0.45
47:B9:23:ARG:CG	47:B9:27:LYS:HG3	2.47	0.45
47:B9:56:CYS:C	47:B9:58:CYS:H	2.19	0.45
47:B9:56:CYS:CA	47:B9:61:LYS:HD3	2.46	0.45
1:AA:358:U:H4'	2:AT:390:ASP:CA	2.47	0.45
1:AA:527:G:O2'	1:AA:535:A:N1	2.34	0.45
1:AA:628:G:H2'	1:AA:629:G:H8	1.82	0.45
1:AA:728:A:H61	15:AO:108:LYS:CE	2.30	0.45
1:AA:989:C:H5"	1:AA:1013:G:H1'	1.74	0.45
1:AA:1060:C:O2'	1:AA:1061:G:H5'	2.16	0.45
1:AA:1135:U:O5'	1:AA:1135:U:H6	2.00	0.45
1:AA:1431:C:H2'	1:AA:1432:G:O4'	2.17	0.45
1:AA:1442:G:N2	1:AA:1446:A:H3'	2.32	0.45
1:AA:1483:A:O2'	18:B3:1988:C:N3	2.50	0.45
2:AT:607:ASN:HA	2:AT:608:PRO:HD3	1.85	0.45
4:AC:109:LEU:HD12	4:AC:176:MET:HG2	1.99	0.45
4:AC:121:VAL:HG23	4:AC:122:VAL:N	2.32	0.45
4:AC:188:MET:HE2	4:AC:189:ARG:O	2.17	0.45
8:AH:102:ILE:HG23	8:AH:102:ILE:O	2.16	0.45
13:AM:129:TRP:CZ3	17:AS:121:ILE:HB	2.44	0.45
14:AN:21:ARG:HG3	14:AN:21:ARG:HH11	1.81	0.45
16:AQ:74:VAL:HG13	16:AQ:83:ILE:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AQ:93:ILE:O	16:AQ:97:ASN:HA	2.17	0.45
16:AQ:128:ARG:CG	16:AQ:129:PRO:HD2	2.47	0.45
18:B3:68:U:H2'	44:BX:55:LEU:CG	2.44	0.45
18:B3:108:U:H5	44:BX:60:GLU:C	2.17	0.45
18:B3:274:G:O2'	18:B3:275:G:H5'	2.17	0.45
18:B3:1055:G:O6	28:BI:13:LYS:NZ	2.50	0.45
18:B3:1227:C:H4'	32:BM:132:ARG:CZ	2.34	0.45
18:B3:1283:G:O2'	18:B3:1284:G:H5'	2.16	0.45
18:B3:1313:A:OP1	42:B0:105:ARG:CD	2.65	0.45
18:B3:1573:A:H2'	18:B3:1574:C:O4'	2.16	0.45
18:B3:1730:G:C5'	18:B3:1731:C:H6	2.29	0.45
18:B3:1808:C:C6	18:B3:2885:A:P	3.07	0.45
18:B3:1900:A:OP2	21:BB:225:SER:OG	2.28	0.45
18:B3:2416:G:H2'	18:B3:2417:C:C6	2.51	0.45
18:B3:2424:U:H1'	36:BQ:8:ARG:HB2	1.99	0.45
18:B3:2709:G:C8	37:BR:7:GLN:C	2.90	0.45
18:B3:2712:G:OP1	37:BR:50:PRO:O	2.34	0.45
18:B3:2763:G:H2'	37:BR:14:SER:OG	2.14	0.45
19:B4:49:G:H5"	24:BE:99:TYR:CE2	2.49	0.45
20:BA:58:CYS:SG	20:BA:59:PRO:HD2	2.56	0.45
21:BB:179:LEU:HD11	47:B9:21:LEU:HA	1.56	0.45
21:BB:236:LEU:HD21	21:BB:242:THR:CG2	2.46	0.45
22:BC:116:ARG:CD	22:BC:174:LYS:HG2	2.47	0.45
22:BC:206:SER:N	22:BC:208:PHE:CE1	2.84	0.45
22:BC:208:PHE:CD1	22:BC:208:PHE:N	2.84	0.45
22:BC:231:ARG:HG2	22:BC:269:ARG:NH2	2.31	0.45
22:BC:302:LYS:CB	22:BC:320:PHE:HZ	2.29	0.45
22:BC:311:VAL:CG1	22:BC:312:HIS:N	2.77	0.45
23:BD:64:TRP:HE1	23:BD:70:VAL:HG21	1.80	0.45
23:BD:198:TRP:HD1	23:BD:200:GLN:H	1.56	0.45
25:BF:98:PRO:C	25:BF:100:LYS:H	2.20	0.45
25:BF:177:ILE:HG13	25:BF:182:ASP:OD1	2.16	0.45
26:BG:152:ILE:HG22	26:BG:177:ALA:O	2.17	0.45
27:BH:40:HIS:HD1	32:BM:127:ARG:H	1.65	0.45
27:BH:44:THR:CG2	27:BH:55:VAL:CG1	2.95	0.45
27:BH:125:ASN:ND2	27:BH:126:VAL:H	2.15	0.45
27:BH:173:ARG:CZ	27:BH:173:ARG:CB	2.94	0.45
28:BI:54:SER:O	28:BI:55:ASN:HB2	2.17	0.45
28:BI:58:GLU:HG3	28:BI:128:ARG:CG	2.32	0.45
29:BJ:12:LYS:C	29:BJ:12:LYS:HD2	2.37	0.45
29:BJ:155:LYS:HD2	29:BJ:155:LYS:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:29:ALA:HB3	30:BK:30:PRO:CD	2.43	0.45
30:BK:113:ALA:HA	30:BK:132:ILE:HD12	1.95	0.45
31:BL:29:TYR:CE1	31:BL:62:ARG:HD2	2.52	0.45
31:BL:65:VAL:H	31:BL:126:TYR:HD2	1.62	0.45
32:BM:11:LYS:HA	32:BM:36:ARG:HD2	1.98	0.45
33:BN:104:LYS:CD	33:BN:106:LEU:HD12	2.23	0.45
33:BN:133:GLY:O	33:BN:134:ARG:HB2	2.16	0.45
34:BO:130:ARG:CG	34:BO:131:ALA:N	2.72	0.45
35:BP:80:ARG:HG3	35:BP:87:ARG:NH1	2.32	0.45
36:BQ:43:LYS:NZ	36:BQ:96:ILE:HD12	2.32	0.45
36:BQ:45:ASN:ND2	36:BQ:45:ASN:H	2.11	0.45
37:BR:13:ILE:HD12	37:BR:53:SER:OG	2.15	0.45
40:BU:27:ARG:CB	40:BU:78:PHE:HE2	2.29	0.45
40:BU:41:ALA:O	40:BU:42:GLN:HG2	2.17	0.45
40:BU:89:LYS:CE	40:BU:89:LYS:N	2.80	0.45
40:BU:99:LEU:HD12	40:BU:99:LEU:N	2.31	0.45
40:BU:100:HIS:HB2	40:BU:101:PRO:C	2.38	0.45
41:BV:118:PRO:HB2	41:BV:121:PRO:CA	2.47	0.45
43:BW:11:TYR:CE2	43:BW:35:ILE:HA	2.52	0.45
43:BW:17:LYS:CD	43:BW:66:VAL:CG1	2.93	0.45
46:BZ:65:LYS:CA	46:BZ:66:LYS:HE2	2.46	0.45
46:BZ:82:LEU:HG	46:BZ:83:THR:O	2.17	0.45
1:AA:33:A:H4'	1:AA:365:U:H5'	1.99	0.45
1:AA:102:G:C2'	1:AA:151:A:HO2'	2.29	0.45
1:AA:190(D):U:C2	16:AQ:111:SER:OG	2.56	0.45
1:AA:318:G:O4'	1:AA:1468:A:C4'	2.49	0.45
1:AA:356:A:H5"	1:AA:366:C:H2'	1.98	0.45
1:AA:357:G:OP1	1:AA:366:C:H5"	2.12	0.45
1:AA:555:C:OP2	12:AL:38:PHE:CG	2.66	0.45
1:AA:580:U:H2'	1:AA:581:G:O4'	2.17	0.45
1:AA:598:U:H4'	8:AH:88:TRP:CD2	2.52	0.45
1:AA:678:U:C4'	11:AK:127:LYS:CA	2.70	0.45
1:AA:864:A:H5'	6:AE:204:ARG:HH12	1.81	0.45
1:AA:1222:G:P	17:AS:120:SER:OG	2.75	0.45
1:AA:1302:U:P	13:AM:54:LEU:CG	3.05	0.45
1:AA:1474:G:O2'	1:AA:1475:G:H5'	2.16	0.45
2:AT:380:LEU:C	2:AT:380:LEU:HD23	2.37	0.45
2:AT:584:ASN:HD22	2:AT:693:LEU:HA	1.82	0.45
3:AB:31:HIS:C	3:AB:33:GLU:H	2.19	0.45
3:AB:67:PRO:CG	3:AB:180:VAL:HG13	2.47	0.45
3:AB:110:ILE:HG13	6:AE:116:THR:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:193:PRO:CB	3:AB:196:ILE:HD12	2.46	0.45
4:AC:82:THR:HG22	4:AC:83:ILE:N	2.32	0.45
4:AC:118:ALA:CB	4:AC:149:MET:CE	2.94	0.45
5:AD:99:LEU:CD2	5:AD:103:ASP:N	2.80	0.45
5:AD:116:LEU:CB	5:AD:118:LEU:CD2	2.94	0.45
5:AD:132:ARG:CB	5:AD:140:ILE:HD11	2.34	0.45
6:AE:83:LYS:CG	6:AE:84:PRO:HD2	2.47	0.45
6:AE:142:TYR:CD2	6:AE:143:TRP:N	2.81	0.45
6:AE:170:PRO:CG	8:AH:96:ARG:HB2	2.45	0.45
11:AK:14:GLY:O	11:AK:78:VAL:HA	2.17	0.45
11:AK:113:ARG:HD2	11:AK:115:GLU:CD	2.36	0.45
13:AM:26:ILE:CG1	13:AM:27:LYS:H	2.27	0.45
13:AM:113:LEU:HD12	13:AM:113:LEU:N	2.32	0.45
15:AO:108:LYS:HD3	15:AO:108:LYS:C	2.36	0.45
16:AQ:74:VAL:CG1	16:AQ:83:ILE:CG1	2.94	0.45
16:AQ:76:SER:HB3	16:AQ:84:VAL:HG11	1.97	0.45
18:B3:26:U:N1	18:B3:1319:G:H2'	2.32	0.45
18:B3:28:G:H5"	18:B3:1343:C:C5'	2.47	0.45
18:B3:517:U:C2	18:B3:1319:G:N2	2.80	0.45
18:B3:615:G:H2'	18:B3:616:U:C6	2.52	0.45
18:B3:671:A:C5'	23:BD:212:ASN:C	2.71	0.45
18:B3:773:A:C1'	45:BY:46:TYR:CE2	2.99	0.45
18:B3:844:A:OP1	33:BN:130:ARG:HB3	2.09	0.45
18:B3:1168:C:C1'	30:BK:110:ILE:HG21	2.47	0.45
18:B3:1228:C:C5'	32:BM:47:PHE:CD1	2.93	0.45
18:B3:1358:A:N6	23:BD:88:ALA:CA	2.66	0.45
18:B3:1676:G:N7	39:BT:112:LEU:HD12	2.31	0.45
18:B3:1809:G:OP1	18:B3:2866:U:OP1	2.35	0.45
18:B3:2115:U:H2'	18:B3:2116:U:C6	2.52	0.45
18:B3:2160:A:O2'	18:B3:2162:G:OP2	2.35	0.45
18:B3:2214:A:C4	20:BA:106:LYS:CD	3.00	0.45
18:B3:2275:G:C4'	31:BL:80:TYR:O	2.65	0.45
18:B3:2809:G:C3'	22:BC:16:LEU:O	2.64	0.45
19:B4:119:C:C5'	24:BE:68:THR:OG1	2.59	0.45
20:BA:54:LYS:HZ1	20:BA:153:SER:CB	2.30	0.45
20:BA:128:LEU:HD23	20:BA:135:PRO:HD3	1.99	0.45
21:BB:72:GLU:HB2	21:BB:74:ILE:HD11	1.99	0.45
21:BB:111:ILE:CG2	21:BB:132:TYR:HB2	2.40	0.45
21:BB:113:SER:CB	21:BB:168:ILE:CD1	2.95	0.45
21:BB:166:GLY:O	47:B9:79:ARG:NH2	2.50	0.45
22:BC:17:PRO:HG2	22:BC:19:LYS:CG	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:18:ARG:HA	22:BC:18:ARG:HH11	1.80	0.45
22:BC:54:THR:CG2	37:BR:91:VAL:CG2	2.92	0.45
22:BC:70:GLU:HG3	37:BR:88:ARG:HA	1.31	0.45
22:BC:75:VAL:CG2	22:BC:326:CYS:CB	2.94	0.45
22:BC:115:ARG:CZ	22:BC:115:ARG:CA	2.94	0.45
22:BC:221:LYS:CG	22:BC:331:ARG:CD	2.95	0.45
22:BC:232:TRP:CZ2	22:BC:264:ALA:CA	3.00	0.45
23:BD:134:VAL:HG22	23:BD:147:ILE:HD11	1.98	0.45
23:BD:151:VAL:CG2	23:BD:248:ILE:CD1	2.95	0.45
24:BE:33:ARG:C	24:BE:36:LEU:HG	2.37	0.45
24:BE:41:LYS:O	24:BE:49:TYR:HB2	2.17	0.45
24:BE:80:SER:H	24:BE:101:THR:HG21	1.81	0.45
25:BF:138:PRO:HB2	25:BF:143:ILE:HG12	1.97	0.45
26:BG:130:ALA:HB2	26:BG:202:VAL:CB	2.46	0.45
26:BG:182:LYS:H	26:BG:182:LYS:CD	2.30	0.45
27:BH:18:VAL:CG1	27:BH:48:VAL:CG2	2.94	0.45
27:BH:28:VAL:C	27:BH:82:VAL:HG21	2.36	0.45
27:BH:93:VAL:CG1	27:BH:94:TYR:N	2.80	0.45
27:BH:108:GLY:O	27:BH:111:PHE:HD2	2.00	0.45
27:BH:112:ILE:CD1	27:BH:128:VAL:CG2	2.93	0.45
28:BI:51:HIS:NE2	28:BI:148:VAL:HG22	2.32	0.45
28:BI:65:LEU:HD12	28:BI:69:ARG:HB3	1.95	0.45
29:BJ:54:ARG:HG3	29:BJ:55:THR:H	1.82	0.45
31:BL:119:TRP:CA	31:BL:119:TRP:CE3	3.00	0.45
31:BL:152:ASP:H	31:BL:157:HIS:CE1	2.35	0.45
31:BL:183:LYS:HE3	31:BL:193:GLN:O	2.16	0.45
33:BN:25:PHE:CE2	33:BN:28:THR:CG2	2.99	0.45
34:BO:79:LYS:HZ2	34:BO:99:THR:HG23	1.82	0.45
35:BP:4:ARG:HD3	35:BP:5:THR:CA	2.47	0.45
36:BQ:96:ILE:CG2	36:BQ:97:LYS:N	2.80	0.45
37:BR:28:ASN:CG	37:BR:29:SER:H	2.20	0.45
37:BR:95:PHE:CE1	38:BS:21:PHE:HB3	2.46	0.45
41:BV:64:GLN:HG3	41:BV:65:ALA:N	2.32	0.45
41:BV:75:ASP:CA	41:BV:78:TRP:CD1	2.94	0.45
42:B0:36:LYS:CE	42:B0:37:GLY:H	2.29	0.45
42:B0:64:LYS:HG2	42:B0:65:PHE:N	2.31	0.45
43:BW:40:LYS:HD2	43:BW:46:ASP:O	2.17	0.45
1:AA:111:G:H4'	1:AA:389:A:O2'	2.16	0.45
1:AA:390:C:O5'	1:AA:390:C:H6	2.00	0.45
1:AA:540:G:H2'	1:AA:541:G:O4'	2.17	0.45
1:AA:560:U:O2	1:AA:563:A:O4'	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1316:G:O6	17:AS:50:THR:CB	2.65	0.45
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.82	0.45
1:AA:1438:G:H2'	1:AA:1439:C:C6	2.52	0.45
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.17	0.45
2:AT:279:ASP:OD2	2:AT:283:ARG:CZ	2.65	0.45
2:AT:749:LYS:HG3	18:B3:2508:C:C5	2.50	0.45
4:AC:101:ALA:CA	4:AC:185:VAL:CG2	2.95	0.45
4:AC:188:MET:HE1	4:AC:191:PRO:HD3	1.98	0.45
5:AD:97:LEU:CD2	5:AD:105:LEU:CD1	2.95	0.45
5:AD:157:ASP:HB3	5:AD:160:PRO:CD	2.47	0.45
7:AG:135:ALA:HB1	7:AG:200:ALA:HB3	1.98	0.45
10:AJ:64:LYS:HZ3	10:AJ:83:GLU:HG3	1.80	0.45
11:AK:13:PHE:HD1	11:AK:77:ALA:HB3	1.82	0.45
12:AL:59:ILE:CD1	12:AL:117:ILE:HG21	2.47	0.45
16:AQ:74:VAL:HG13	16:AQ:83:ILE:HD11	1.99	0.45
18:B3:26:U:C3'	18:B3:1319:G:O2'	2.64	0.45
18:B3:219:G:O2'	18:B3:220:C:P	2.75	0.45
18:B3:783:C:P	21:BB:189:ARG:HH11	2.40	0.45
18:B3:875:A:O2'	21:BB:203:MET:CE	2.65	0.45
18:B3:1133:A:OP1	28:BI:162:GLN:CD	2.53	0.45
18:B3:1163:G:H4'	30:BK:54:LYS:CA	2.46	0.45
18:B3:1343:C:C6	23:BD:186:LEU:CD1	2.80	0.45
18:B3:1396:C:C2'	35:BP:2:ASN:HB3	2.47	0.45
18:B3:2256:G:O2'	18:B3:2257:G:H5'	2.17	0.45
18:B3:2457:U:H4'	46:BZ:82:LEU:O	2.17	0.45
18:B3:2526:C:C1'	18:B3:2604:A:O2'	2.64	0.45
18:B3:2710:U:H4'	37:BR:56:ASP:HA	1.99	0.45
18:B3:2781:U:C2'	18:B3:2782:G:H5'	2.47	0.45
18:B3:2846:C:C3'	22:BC:172:GLN:OE1	2.65	0.45
19:B4:95:C:O2'	19:B4:96:C:H5'	2.17	0.45
20:BA:36:VAL:CG2	20:BA:204:LEU:CD1	2.95	0.45
20:BA:65:ILE:HD13	20:BA:151:VAL:HG21	1.98	0.45
21:BB:134:ILE:CD1	21:BB:148:ARG:CG	2.94	0.45
21:BB:162:ARG:CD	21:BB:163:GLY:N	2.80	0.45
22:BC:104:VAL:HB	22:BC:198:PHE:CZ	2.52	0.45
23:BD:63:SER:N	23:BD:74:PRO:HB3	2.32	0.45
23:BD:194:ARG:HG3	23:BD:195:ASN:O	2.17	0.45
24:BE:30:TYR:CD1	24:BE:33:ARG:NH1	2.85	0.45
24:BE:116:ASP:CG	24:BE:117:GLU:H	2.20	0.45
24:BE:133:GLU:HG2	24:BE:134:ALA:H	1.81	0.45
25:BF:102:LEU:HD11	25:BF:129:ILE:CG2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BH:42:ASP:H	32:BM:124:ARG:CA	2.29	0.45
28:BI:6:ALA:CB	28:BI:10:ARG:HH21	2.30	0.45
28:BI:121:LYS:HD3	28:BI:121:LYS:H	1.79	0.45
31:BL:82:LYS:HZ1	46:BZ:49:PHE:CB	2.28	0.45
32:BM:2:VAL:HG12	32:BM:32:ILE:HD11	1.99	0.45
32:BM:93:ARG:HE	32:BM:97:ALA:HB3	1.82	0.45
33:BN:46:TYR:O	33:BN:47:LEU:HB2	2.17	0.45
33:BN:82:TRP:CB	33:BN:83:PRO:CA	2.94	0.45
33:BN:127:ARG:HA	33:BN:127:ARG:HD3	1.41	0.45
34:BO:33:TYR:HD2	34:BO:48:VAL:HG13	1.81	0.45
34:BO:34:THR:CG2	34:BO:35:PHE:N	2.80	0.45
34:BO:102:ALA:HB1	34:BO:124:LEU:N	2.31	0.45
35:BP:16:VAL:HG23	35:BP:17:GLY:O	2.17	0.45
35:BP:62:THR:O	35:BP:63:ARG:HB3	2.17	0.45
35:BP:97:ARG:HB2	35:BP:97:ARG:HH11	1.79	0.45
35:BP:98:LEU:O	35:BP:99:ARG:HB2	2.17	0.45
36:BQ:48:ILE:HB	36:BQ:94:GLU:OE2	2.17	0.45
36:BQ:62:GLY:HA3	36:BQ:77:ASN:H	1.82	0.45
37:BR:92:PHE:HB3	37:BR:93:LEU:H	1.45	0.45
39:BT:59:TYR:CD2	39:BT:60:LYS:N	2.85	0.45
41:BV:80:LEU:CD2	41:BV:86:ARG:CG	2.94	0.45
42:B0:72:LYS:H	42:B0:90:LYS:HB2	1.80	0.45
42:B0:72:LYS:N	42:B0:90:LYS:CB	2.80	0.45
43:BW:58:ILE:C	43:BW:59:TRP:CD2	2.91	0.45
45:BY:32:THR:HG1	45:BY:38:TYR:HB2	1.82	0.45
45:BY:33:CYS:N	45:BY:38:TYR:CD1	2.85	0.45
46:BZ:40:ARG:CG	46:BZ:41:ARG:N	2.80	0.45
1:AA:5:U:O2'	1:AA:6:G:P	2.75	0.44
1:AA:113:G:H1'	1:AA:354:G:C5'	2.47	0.44
1:AA:118:U:O3'	1:AA:122:G:C5	2.68	0.44
1:AA:402:G:C5'	1:AA:620:C:H2'	2.47	0.44
1:AA:616:G:P	5:AD:149:ARG:HG3	2.57	0.44
1:AA:920:U:H4'	1:AA:1080:A:N9	2.27	0.44
1:AA:1003(A):G:H2'	1:AA:1004:A:H4'	1.99	0.44
1:AA:1219:U:H3'	17:AS:78:THR:OG1	2.16	0.44
1:AA:1318:A:HO2'	17:AS:55:GLY:HA2	1.82	0.44
1:AA:1372:U:H5"	9:AI:74:VAL:HG21	0.46	0.44
2:AT:535:GLU:HB2	18:B3:2698:G:H21	1.82	0.44
4:AC:24:PHE:CD2	4:AC:49:ILE:HG21	2.52	0.44
7:AG:123:LEU:HD12	7:AG:123:LEU:H	1.82	0.44
8:AH:26:ILE:HD12	8:AH:62:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:26:ILE:HG22	8:AH:60:ILE:HB	1.99	0.44
8:AH:125:LEU:H	8:AH:125:LEU:CD1	2.30	0.44
9:AI:39:GLU:HB2	9:AI:42:ILE:CD1	2.47	0.44
9:AI:101:LYS:O	9:AI:105:LYS:HG3	2.16	0.44
10:AJ:50:LEU:HD23	10:AJ:50:LEU:C	2.38	0.44
12:AL:70:LYS:HD2	12:AL:70:LYS:N	2.32	0.44
12:AL:117:ILE:CD1	12:AL:120:VAL:HG21	2.47	0.44
13:AM:18:LEU:HD23	13:AM:35:ILE:HD13	1.98	0.44
18:B3:82:C:H1'	40:BU:75:ARG:NH1	2.24	0.44
18:B3:170:U:C5'	31:BL:82:LYS:HB2	2.48	0.44
18:B3:270:U:O2'	18:B3:271:C:OP2	2.33	0.44
18:B3:319:A:H4'	18:B3:338:C:C4	2.53	0.44
18:B3:401:C:C4'	31:BL:94:GLN:C	2.50	0.44
18:B3:401:C:H2'	18:B3:402:U:C6	2.52	0.44
18:B3:617:C:H5'	42:B0:47:ARG:HH11	1.52	0.44
18:B3:622:G:H8	42:B0:36:LYS:HD3	1.79	0.44
18:B3:638:C:H2'	18:B3:639:A:C8	2.52	0.44
18:B3:710:G:C5'	34:BO:44:PHE:HD2	2.13	0.44
18:B3:1133:A:C8	18:B3:2521:A:O4'	2.69	0.44
18:B3:1397:C:O2'	35:BP:25:PRO:HG3	2.16	0.44
18:B3:1406:A:H4'	18:B3:1407:A:O5'	2.17	0.44
18:B3:1474:C:H5'	18:B3:1474:C:C6	2.49	0.44
18:B3:1496:G:H2'	18:B3:1497:G:C8	2.52	0.44
18:B3:1869:A:H1'	21:BB:10:GLY:C	2.37	0.44
18:B3:2065:C:H6	22:BC:255:HIS:CE1	2.30	0.44
18:B3:2093:G:C2'	22:BC:253:ALA:HB1	2.14	0.44
18:B3:2242:U:H4'	18:B3:2243:C:OP1	2.17	0.44
18:B3:2264:A:H5"	31:BL:92:LYS:CE	2.39	0.44
18:B3:2347:C:O2'	29:BJ:17:VAL:HG21	2.17	0.44
18:B3:2662:G:HO2'	18:B3:2814:A:H2	0.65	0.44
18:B3:2831:C:C2'	18:B3:2832:C:H5'	2.46	0.44
20:BA:49:PHE:HD2	20:BA:193:LEU:HD21	1.82	0.44
21:BB:22:ARG:HD3	21:BB:22:ARG:N	2.32	0.44
21:BB:47:ILE:HD11	47:B9:62:THR:HB	1.92	0.44
21:BB:195:TRP:CH2	21:BB:197:LYS:CD	2.95	0.44
21:BB:240:ARG:HG2	21:BB:241:ARG:HH12	1.80	0.44
22:BC:42:LEU:H	22:BC:42:LEU:CD1	2.27	0.44
22:BC:49:LYS:HZ2	22:BC:333:ARG:H	1.65	0.44
22:BC:101:LEU:CD1	22:BC:145:ARG:CD	2.95	0.44
22:BC:172:GLN:HB2	22:BC:173:LYS:CE	2.47	0.44
23:BD:128:THR:CG2	23:BD:247:VAL:CG2	2.95	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:50:ARG:CZ	24:BE:52:VAL:CG2	2.95	0.44
24:BE:50:ARG:HD2	24:BE:52:VAL:HG22	1.99	0.44
24:BE:76:ALA:HB3	24:BE:109:THR:N	2.32	0.44
24:BE:106:ALA:CB	24:BE:166:ALA:HA	2.30	0.44
25:BF:82:LEU:HD12	25:BF:188:ILE:HD13	1.98	0.44
25:BF:110:ILE:O	25:BF:111:ASN:HB2	2.17	0.44
26:BG:107:ARG:HG3	26:BG:108:LEU:N	2.31	0.44
26:BG:130:ALA:CB	26:BG:202:VAL:CB	2.94	0.44
26:BG:150:VAL:CG2	26:BG:176:TYR:CB	2.93	0.44
27:BH:59:ASN:CG	27:BH:60:GLY:H	2.20	0.44
27:BH:104:VAL:HG12	27:BH:111:PHE:CA	2.47	0.44
27:BH:129:ARG:HH11	27:BH:156:GLN:HE22	1.65	0.44
28:BI:38:LYS:HD3	28:BI:40:LYS:CE	2.46	0.44
28:BI:57:LEU:HB3	28:BI:58:GLU:OE2	2.17	0.44
29:BJ:36:LEU:HB3	29:BJ:67:HIS:NE2	2.32	0.44
30:BK:40:LYS:HD3	30:BK:40:LYS:C	2.37	0.44
31:BL:52:TYR:CD1	31:BL:52:TYR:C	2.90	0.44
31:BL:187:ARG:NH1	31:BL:188:LYS:H	2.04	0.44
32:BM:75:PRO:O	32:BM:79:PHE:CD1	2.70	0.44
33:BN:14:ALA:N	33:BN:149:VAL:HG12	2.32	0.44
33:BN:25:PHE:HA	33:BN:28:THR:CG2	2.46	0.44
33:BN:65:SER:O	33:BN:66:ILE:HD13	2.17	0.44
33:BN:66:ILE:O	33:BN:79:LYS:HD2	2.16	0.44
33:BN:70:ALA:H	33:BN:73:LYS:HD3	1.82	0.44
33:BN:118:VAL:CG2	33:BN:119:ASN:H	2.25	0.44
35:BP:43:LEU:CD2	35:BP:43:LEU:N	2.81	0.44
37:BR:28:ASN:CA	37:BR:102:ILE:CD1	2.94	0.44
37:BR:93:LEU:HB2	38:BS:21:PHE:CD1	2.51	0.44
37:BR:101:VAL:HG22	37:BR:102:ILE:HD13	1.99	0.44
39:BT:80:ILE:O	39:BT:81:LEU:HB3	2.16	0.44
40:BU:115:ARG:HH11	40:BU:118:LEU:HB3	1.82	0.44
41:BV:81:ILE:CD1	41:BV:86:ARG:CD	2.95	0.44
41:BV:126:ALA:CA	41:BV:146:LEU:CD1	2.95	0.44
45:BY:25:SER:HB3	45:BY:35:SER:OG	2.18	0.44
1:AA:21:G:O2'	1:AA:885:G:H8	2.00	0.44
1:AA:65:U:P	1:AA:96:G:C3'	2.93	0.44
1:AA:321:A:O2'	1:AA:322:C:H5'	2.17	0.44
1:AA:359:U:O2'	1:AA:360:A:H5'	2.17	0.44
1:AA:583:A:H2'	1:AA:584:G:O4'	2.17	0.44
1:AA:619:U:H5"	5:AD:142:ASN:H	1.41	0.44
1:AA:627:G:O2'	1:AA:628:G:H5'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:644:G:O2'	1:AA:645:C:H5'	2.17	0.44
1:AA:1237:C:H2'	1:AA:1336:C:C5	2.52	0.44
2:AT:722:PRO:O	2:AT:723:LYS:HD2	2.16	0.44
4:AC:33:TYR:CE1	4:AC:35:GLY:N	2.85	0.44
5:AD:101:VAL:HB	5:AD:189:ASP:O	2.17	0.44
5:AD:162:SER:HB2	5:AD:163:PRO:CD	2.37	0.44
10:AJ:22:ILE:CG2	10:AJ:116:VAL:CG1	2.95	0.44
10:AJ:55:PRO:N	10:AJ:91:ILE:HG23	2.33	0.44
10:AJ:96:PRO:CB	10:AJ:99:ILE:HD12	2.47	0.44
13:AM:44:ASN:O	13:AM:48:LYS:HB2	2.17	0.44
15:AO:104:ASN:OD1	15:AO:107:ASP:HB2	2.17	0.44
18:B3:29:C:OP2	23:BD:192:LYS:HD3	2.16	0.44
18:B3:140:G:H8	18:B3:140:G:H3'	1.83	0.44
18:B3:220:C:O2	41:BV:54:LYS:CE	2.60	0.44
18:B3:375:G:H21	18:B3:410:A:H3'	1.83	0.44
18:B3:450:C:H1'	23:BD:47:GLN:OE1	2.17	0.44
18:B3:521:A:C5'	42:B0:26:HIS:HE2	2.27	0.44
18:B3:540:A:O5'	42:B0:16:LYS:O	2.35	0.44
18:B3:907:A:C8	18:B3:1328:A:C2'	2.85	0.44
18:B3:1118:A:H8	18:B3:1119:G:H5"	1.83	0.44
18:B3:1227:C:OP1	18:B3:1244:U:C4	2.70	0.44
18:B3:1227:C:C5'	32:BM:132:ARG:NH1	2.80	0.44
18:B3:1316:G:OP1	42:B0:104:ASN:O	2.35	0.44
18:B3:1674:C:P	39:BT:121:ALA:HB1	2.50	0.44
18:B3:1741:U:O3'	18:B3:2723:G:C3'	2.65	0.44
18:B3:1816:C:C2	18:B3:2746:A:C2	3.06	0.44
18:B3:1852:A:H1'	21:BB:236:LEU:HA	1.98	0.44
18:B3:1928:C:H2'	18:B3:1929:G:O4'	2.17	0.44
18:B3:1993:C:O3'	37:BR:71:LYS:CD	2.61	0.44
18:B3:2003:U:HO2'	18:B3:2004:U:H5	1.63	0.44
18:B3:2220:C:C4'	20:BA:210:MET:O	2.64	0.44
18:B3:2520:G:OP1	28:BI:160:PRO:CB	2.61	0.44
18:B3:2653:A:H2'	18:B3:2654:C:C6	2.51	0.44
18:B3:2672:C:O2'	18:B3:2673:U:H5'	2.17	0.44
19:B4:47:A:H5"	24:BE:160:PHE:HZ	1.82	0.44
19:B4:49:G:H4'	24:BE:96:ALA:H	1.47	0.44
19:B4:59:C:H2'	19:B4:60:C:H6	1.82	0.44
19:B4:68:G:O3'	24:BE:13:SER:HB3	2.11	0.44
19:B4:94:G:O2'	19:B4:95:C:H5'	2.17	0.44
21:BB:224:ILE:HG12	21:BB:232:GLN:HE21	1.83	0.44
22:BC:38:LYS:HB2	22:BC:39:PRO:CA	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:45:PHE:CE1	22:BC:81:PRO:CB	2.98	0.44
22:BC:52:MET:CE	22:BC:53:THR:H	2.12	0.44
22:BC:185:GLY:N	22:BC:190:LYS:CG	2.80	0.44
22:BC:217:ILE:O	22:BC:336:THR:HG23	2.17	0.44
22:BC:259:VAL:HG22	22:BC:261:TRP:HB3	1.98	0.44
23:BD:215:VAL:HG11	23:BD:218:LEU:CD2	2.41	0.44
23:BD:256:LYS:O	23:BD:257:LEU:HB3	2.16	0.44
24:BE:180:PHE:CB	24:BE:181:PRO:HD2	2.45	0.44
26:BG:152:ILE:CD1	26:BG:162:VAL:CG2	2.94	0.44
28:BI:134:ILE:HD13	28:BI:134:ILE:N	2.20	0.44
29:BJ:16:LEU:CD1	29:BJ:75:ALA:HB1	2.46	0.44
29:BJ:83:LEU:HD11	29:BJ:90:LEU:HD12	1.99	0.44
29:BJ:136:ARG:NH2	29:BJ:137:VAL:HA	2.32	0.44
31:BL:65:VAL:N	31:BL:126:TYR:HD2	2.16	0.44
32:BM:15:VAL:HG12	32:BM:40:LEU:CD1	2.48	0.44
32:BM:107:ILE:HG13	32:BM:108:PRO:HD2	1.98	0.44
32:BM:126:LEU:HG	32:BM:126:LEU:O	2.17	0.44
35:BP:8:ARG:HA	35:BP:8:ARG:NE	2.15	0.44
37:BR:54:LEU:HD13	37:BR:78:VAL:CG2	2.48	0.44
37:BR:79:VAL:HG11	37:BR:118:VAL:HG12	1.98	0.44
39:BT:61:VAL:HG13	39:BT:62:ILE:N	2.32	0.44
39:BT:71:ALA:O	39:BT:75:VAL:HG22	2.17	0.44
39:BT:95:LYS:CD	39:BT:106:VAL:HG23	2.30	0.44
39:BT:132:LEU:H	39:BT:132:LEU:HD23	1.82	0.44
40:BU:56:VAL:CG1	40:BU:57:LEU:N	2.80	0.44
40:BU:57:LEU:HA	40:BU:67:GLU:CG	2.48	0.44
42:B0:73:THR:O	42:B0:74:PHE:HB3	2.18	0.44
43:BW:9:ARG:HH12	43:BW:72:LEU:HD11	1.82	0.44
43:BW:19:LEU:HD23	43:BW:19:LEU:HA	1.80	0.44
43:BW:35:ILE:HD12	43:BW:50:LEU:HD22	1.99	0.44
44:BX:25:LYS:HZ3	44:BX:28:LEU:CD2	2.29	0.44
45:BY:16:THR:CG2	45:BY:17:LEU:H	2.24	0.44
47:B9:55:THR:HG1	47:B9:62:THR:HA	1.81	0.44
1:AA:21:G:C2'	1:AA:885:G:H5'	2.42	0.44
1:AA:239:U:H5"	1:AA:240:C:H1'	1.35	0.44
1:AA:362:G:H5"	12:AL:77:ILE:O	2.17	0.44
1:AA:414:A:OP2	1:AA:428:G:N2	2.45	0.44
1:AA:677:U:O4	11:AK:121:PRO:CB	2.60	0.44
1:AA:988:G:OP2	1:AA:1014:A:N6	2.50	0.44
1:AA:990:C:H6	1:AA:1016:A:C4	2.31	0.44
1:AA:1221:G:O3'	17:AS:120:SER:OG	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1239:A:C4	1:AA:1298:C:N4	2.86	0.44
1:AA:1341:U:H6	9:AI:141:TYR:CZ	2.35	0.44
3:AB:22:HIS:HB3	3:AB:161:CYS:HB3	1.98	0.44
5:AD:60:LEU:CD2	5:AD:64:GLU:CG	2.95	0.44
5:AD:136:VAL:HG22	5:AD:141:VAL:HG23	1.99	0.44
6:AE:87:LYS:HG2	6:AE:94:ARG:O	2.17	0.44
6:AE:96:ARG:HH21	6:AE:116:THR:HG21	1.83	0.44
7:AG:86:CYS:HB2	7:AG:87:PRO:CD	2.38	0.44
7:AG:210:ILE:CD1	7:AG:210:ILE:H	2.30	0.44
10:AJ:45:ALA:HB1	10:AJ:93:LEU:CD2	2.48	0.44
11:AK:42:THR:HB	11:AK:53:GLU:HA	1.99	0.44
12:AL:102:VAL:CG2	12:AL:133:LEU:CD1	2.94	0.44
12:AL:142:LYS:HD2	12:AL:143:PRO:CD	2.47	0.44
13:AM:23:ASP:HB3	13:AM:34:THR:HG21	2.00	0.44
16:AQ:73:THR:O	16:AQ:85:ILE:HA	2.16	0.44
18:B3:92:G:H5'	44:BX:41:LEU:H	0.70	0.44
18:B3:248:A:H5'	18:B3:249:G:OP2	2.17	0.44
18:B3:294:C:H2'	18:B3:295:C:O4'	2.18	0.44
18:B3:891:G:C5'	23:BD:54:LYS:NZ	2.79	0.44
18:B3:1006:A:N1	18:B3:2311:A:H1'	2.31	0.44
18:B3:1167:G:C2	30:BK:110:ILE:HG21	2.49	0.44
18:B3:1212:C:H2'	18:B3:1213:C:C6	2.53	0.44
18:B3:1243:C:H4'	32:BM:17:ARG:CZ	2.42	0.44
18:B3:1371:U:H4'	33:BN:65:SER:CB	2.32	0.44
18:B3:1676:G:H3'	39:BT:114:ARG:O	2.18	0.44
18:B3:1694:G:H22	45:BY:5:PRO:CB	1.84	0.44
18:B3:1847:A:HO2'	21:BB:179:LEU:CA	2.17	0.44
18:B3:2424:U:O3'	36:BQ:6:GLY:HA3	2.18	0.44
18:B3:2460:A:C2'	46:BZ:60:LYS:CD	2.89	0.44
18:B3:2561:C:H5'	18:B3:2777:G:H4'	1.99	0.44
19:B4:49:G:O6	24:BE:158:ARG:NH2	2.25	0.44
20:BA:49:PHE:HD1	20:BA:157:PHE:HD1	1.65	0.44
20:BA:98:LYS:HD2	20:BA:99:LEU:HD22	1.99	0.44
22:BC:49:LYS:CG	22:BC:333:ARG:H	2.22	0.44
22:BC:75:VAL:CG2	22:BC:326:CYS:SG	3.06	0.44
22:BC:92:VAL:CG2	22:BC:101:LEU:CD2	2.94	0.44
22:BC:198:PHE:HB3	22:BC:199:GLU:H	1.46	0.44
22:BC:208:PHE:O	22:BC:209:GLU:HB2	2.17	0.44
22:BC:304:ILE:CD1	22:BC:358:ILE:CD1	2.95	0.44
22:BC:313:TYR:HE1	22:BC:332:LYS:HB2	1.80	0.44
23:BD:205:LEU:HB3	23:BD:224:VAL:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:41:LYS:CB	24:BE:49:TYR:HD2	2.29	0.44
24:BE:56:THR:HG22	24:BE:57:ASN:O	2.16	0.44
24:BE:61:ILE:CD1	24:BE:79:TYR:CD2	3.00	0.44
24:BE:103:LEU:CD1	24:BE:104:LEU:CD2	2.95	0.44
24:BE:103:LEU:CD2	24:BE:226:TYR:CZ	3.00	0.44
24:BE:220:SER:CA	24:BE:223:PHE:CE2	2.94	0.44
25:BF:82:LEU:HD11	25:BF:188:ILE:CD1	2.46	0.44
25:BF:86:VAL:HA	25:BF:112:SER:O	2.17	0.44
26:BG:108:LEU:O	26:BG:117:GLU:HA	2.17	0.44
26:BG:122:GLN:HB3	26:BG:188:LEU:HD12	1.99	0.44
27:BH:8:GLN:HA	27:BH:8:GLN:HE21	1.81	0.44
27:BH:128:VAL:CG1	27:BH:132:VAL:CG1	2.95	0.44
27:BH:129:ARG:CD	27:BH:153:ASP:HA	2.47	0.44
27:BH:167:VAL:CG2	27:BH:170:LYS:HE3	2.46	0.44
28:BI:32:ARG:HG2	28:BI:33:ILE:N	2.31	0.44
28:BI:50:VAL:HB	28:BI:139:ARG:NH1	2.32	0.44
28:BI:79:VAL:O	28:BI:79:VAL:HG22	2.16	0.44
31:BL:62:ARG:HE	31:BL:128:TYR:HD2	1.65	0.44
32:BM:44:GLY:O	32:BM:45:GLU:HB3	2.16	0.44
33:BN:16:ALA:HB3	33:BN:96:ASN:ND2	2.32	0.44
33:BN:75:PHE:CZ	33:BN:77:VAL:HG11	2.52	0.44
33:BN:115:HIS:CD2	33:BN:116:ILE:H	2.35	0.44
33:BN:128:THR:HG22	33:BN:129:TYR:N	2.31	0.44
34:BO:63:SER:CA	34:BO:88:THR:HG22	2.47	0.44
35:BP:87:ARG:O	35:BP:88:LEU:HG	2.17	0.44
35:BP:91:GLN:CA	35:BP:94:TRP:HE3	2.30	0.44
40:BU:14:LYS:HZ3	40:BU:15:ALA:N	2.16	0.44
40:BU:32:SER:HA	40:BU:48:LEU:O	2.16	0.44
41:BV:21:ILE:O	41:BV:21:ILE:HG23	2.17	0.44
41:BV:47:TYR:O	41:BV:48:HIS:HB3	2.16	0.44
43:BW:16:HIS:CG	43:BW:17:LYS:N	2.85	0.44
43:BW:68:TYR:CG	43:BW:69:ARG:N	2.85	0.44
45:BY:32:THR:C	45:BY:38:TYR:HD1	2.20	0.44
46:BZ:76:CYS:O	46:BZ:77:LYS:HB2	2.17	0.44
47:B9:22:ARG:HG2	47:B9:23:ARG:C	2.37	0.44
1:AA:75:G:O2'	1:AA:76:C:H5'	2.18	0.44
1:AA:132:C:C2	1:AA:262:A:C2	2.81	0.44
1:AA:165:C:H2'	1:AA:166:G:H8	1.81	0.44
1:AA:690:G:H2'	1:AA:691:G:O4'	2.17	0.44
1:AA:1195:C:H3'	1:AA:1196:U:H5"	1.99	0.44
1:AA:1285:A:O2'	1:AA:1286:A:OP2	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1299:A:H1'	13:AM:27:LYS:HB2	1.04	0.44
1:AA:1331:G:H2'	13:AM:40:ARG:HB2	2.00	0.44
1:AA:1497:G:C2'	1:AA:1498:U:C5'	2.89	0.44
2:AT:84:GLU:HG3	2:AT:85:ASP:N	2.31	0.44
2:AT:411:VAL:HG11	2:AT:469:LEU:HB3	1.99	0.44
2:AT:463:LEU:N	2:AT:513:LYS:HZ3	2.01	0.44
2:AT:633:ILE:HG13	2:AT:633:ILE:O	2.17	0.44
3:AB:173:TRP:HA	3:AB:176:LEU:HD23	1.99	0.44
4:AC:10:LEU:HD11	14:AN:32:LYS:HG2	1.99	0.44
5:AD:54:ARG:CB	5:AD:54:ARG:CZ	2.95	0.44
5:AD:97:LEU:HD23	5:AD:97:LEU:C	2.37	0.44
5:AD:99:LEU:CD1	5:AD:107:ARG:N	2.80	0.44
5:AD:133:HIS:HD1	5:AD:160:PRO:HG3	1.83	0.44
8:AH:76:PRO:HD2	8:AH:129:TYR:O	2.17	0.44
9:AI:62:ILE:CG2	9:AI:63:ASP:N	2.79	0.44
9:AI:97:ASP:CA	9:AI:103:GLU:N	2.81	0.44
13:AM:85:PHE:HA	13:AM:100:THR:N	2.31	0.44
13:AM:85:PHE:CB	13:AM:100:THR:HB	2.48	0.44
14:AN:30:VAL:HG11	14:AN:33:TYR:CD1	2.52	0.44
15:AO:73:ILE:HD13	15:AO:77:ASN:ND2	2.32	0.44
16:AQ:131:SER:HB3	16:AQ:134:VAL:HG12	1.98	0.44
17:AS:74:ALA:HA	17:AS:75:PRO:HD3	1.62	0.44
18:B3:35:U:C4'	23:BD:104:THR:HG1	2.28	0.44
18:B3:392:U:H5'	31:BL:195:THR:CA	2.47	0.44
18:B3:419:A:H1'	18:B3:1921:A:C2	2.53	0.44
18:B3:518:G:P	18:B3:1339:G:H5'	2.50	0.44
18:B3:541:C:C3'	42:B0:15:LYS:CB	2.85	0.44
18:B3:698:A:OP1	41:BV:132:LEU:CD1	2.57	0.44
18:B3:698:A:H5"	41:BV:114:LYS:CA	2.48	0.44
18:B3:707:C:H41	34:BO:72:LYS:NZ	2.15	0.44
18:B3:1059:G:N7	18:B3:2491:G:C1'	2.79	0.44
18:B3:1072:G:O2'	18:B3:1073:A:OP2	2.34	0.44
18:B3:1327:G:C2	18:B3:1329:A:H3'	2.52	0.44
18:B3:1369:A:H8	18:B3:1369:A:OP1	2.01	0.44
18:B3:1805:G:H2'	18:B3:2883:A:C6	2.53	0.44
18:B3:2106:C:H2'	18:B3:2107:U:C6	2.52	0.44
18:B3:2165:G:HO2'	20:BA:33:GLU:HB3	1.67	0.44
18:B3:2263:G:H4'	31:BL:68:GLY:HA3	2.00	0.44
18:B3:2333:G:C3'	29:BJ:114:LYS:HG2	2.47	0.44
18:B3:2334:C:C2	29:BJ:116:ASP:CB	2.93	0.44
18:B3:2347:C:O2	29:BJ:19:ASN:CB	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2561:C:P	18:B3:2777:G:O2'	2.74	0.44
18:B3:2579:G:C5'	18:B3:2680:A:C1'	2.94	0.44
18:B3:2596:A:H1'	37:BR:72:LYS:HE3	1.83	0.44
18:B3:2821:C:H6	22:BC:103:THR:HG23	1.82	0.44
18:B3:2885:A:H2'	18:B3:2886:C:C6	2.52	0.44
18:B3:2898:G:OP1	22:BC:312:HIS:C	2.55	0.44
20:BA:49:PHE:CE2	20:BA:193:LEU:HD11	2.51	0.44
21:BB:187:LYS:HA	21:BB:187:LYS:CE	2.48	0.44
21:BB:187:LYS:NZ	21:BB:187:LYS:H	2.15	0.44
21:BB:195:TRP:CG	21:BB:196:PRO:CA	2.96	0.44
22:BC:46:LEU:CG	22:BC:47:GLY:H	2.30	0.44
23:BD:5:VAL:HG13	23:BD:18:ALA:O	2.18	0.44
23:BD:28:PRO:O	23:BD:29:ILE:HB	2.17	0.44
23:BD:59:THR:O	23:BD:60:SER:HB3	2.17	0.44
24:BE:37:VAL:HG21	24:BE:47:PRO:O	2.17	0.44
24:BE:64:ILE:HG22	24:BE:105:ILE:HD11	1.99	0.44
24:BE:106:ALA:HA	24:BE:110:LEU:CB	2.48	0.44
24:BE:107:ARG:CG	24:BE:226:TYR:CE1	2.95	0.44
24:BE:146:LEU:HD23	24:BE:146:LEU:H	1.82	0.44
24:BE:209:GLU:OE1	24:BE:209:GLU:HA	1.99	0.44
25:BF:155:ILE:O	25:BF:157:LYS:HD2	2.17	0.44
26:BG:115:VAL:CG1	26:BG:213:LEU:CB	2.92	0.44
26:BG:152:ILE:HD11	26:BG:162:VAL:CG1	2.47	0.44
27:BH:92:TYR:CD1	27:BH:179:ILE:CG2	2.94	0.44
27:BH:104:VAL:CG1	27:BH:111:PHE:CA	2.93	0.44
30:BK:22:VAL:CG1	30:BK:23:GLY:H	2.13	0.44
31:BL:58:PHE:CD1	31:BL:132:ILE:CG2	3.00	0.44
31:BL:70:ARG:NH1	31:BL:71:LYS:HG3	2.33	0.44
31:BL:76:LYS:H	31:BL:76:LYS:HD3	1.83	0.44
31:BL:103:GLU:CG	31:BL:104:ARG:CZ	2.95	0.44
31:BL:114:VAL:CB	31:BL:133:LEU:HD23	2.47	0.44
31:BL:146:ARG:NH1	31:BL:146:ARG:HB3	2.32	0.44
32:BM:5:VAL:CG1	32:BM:6:VAL:H	2.19	0.44
32:BM:54:HIS:NE2	32:BM:78:ILE:HG13	2.32	0.44
34:BO:79:LYS:HG2	34:BO:138:LEU:HD13	1.99	0.44
35:BP:16:VAL:CA	35:BP:20:LYS:HE2	2.47	0.44
36:BQ:38:ASP:O	36:BQ:64:VAL:HG12	2.17	0.44
36:BQ:72:VAL:CG1	36:BQ:91:LEU:CD1	2.95	0.44
36:BQ:75:ILE:H	36:BQ:91:LEU:HD21	1.78	0.44
37:BR:45:ARG:O	37:BR:48:ARG:HB3	2.18	0.44
39:BT:80:ILE:HG23	39:BT:123:VAL:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:51:ARG:HG2	40:BU:52:ARG:H	1.82	0.44
41:BV:108:TYR:CD2	41:BV:109:GLY:N	2.85	0.44
43:BW:16:HIS:HD1	43:BW:30:ARG:CG	2.30	0.44
1:AA:359:U:H6	2:AT:391:LYS:CG	2.29	0.44
1:AA:397:A:H3'	1:AA:397:A:N3	2.32	0.44
1:AA:451:A:N6	1:AA:480:U:H2'	2.32	0.44
1:AA:547:A:H4'	1:AA:548:G:O5'	2.18	0.44
1:AA:960:U:O2	1:AA:960:U:H2'	2.18	0.44
1:AA:1180:A:OP1	9:AI:111:TYR:CE1	2.70	0.44
1:AA:1315:U:O4	17:AS:49:MET:CG	2.66	0.44
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.83	0.44
2:AT:738:GLN:N	2:AT:738:GLN:OE1	2.51	0.44
3:AB:119:LEU:HD21	3:AB:143:ILE:HD13	1.99	0.44
3:AB:122:VAL:CG1	3:AB:132:ILE:HD11	2.40	0.44
4:AC:137:VAL:CG2	4:AC:149:MET:CG	2.95	0.44
5:AD:156:ILE:O	5:AD:156:ILE:HG23	2.17	0.44
7:AG:161:VAL:HG21	7:AG:169:GLN:OE1	2.17	0.44
7:AG:200:ALA:CB	7:AG:210:ILE:HD11	2.46	0.44
9:AI:58:LYS:NZ	9:AI:62:ILE:HG13	2.33	0.44
10:AJ:109:GLU:OE1	10:AJ:109:GLU:HA	2.17	0.44
17:AS:85:ILE:CG2	17:AS:116:LEU:CG	2.95	0.44
18:B3:57:C:O2'	44:BX:35:LYS:HE2	2.17	0.44
18:B3:141:C:O2	18:B3:141:C:H2'	2.17	0.44
18:B3:242:A:C2	18:B3:377:C:H2'	2.53	0.44
18:B3:381:G:O5'	31:BL:119:TRP:HZ3	2.01	0.44
18:B3:553:G:O2'	42:B0:69:SER:HA	2.18	0.44
18:B3:697:G:P	41:BV:130:SER:HA	2.58	0.44
18:B3:721:A:P	34:BO:71:LEU:CG	3.06	0.44
18:B3:1148:C:H6	18:B3:1148:C:C5'	2.25	0.44
18:B3:1385:G:C5'	43:BW:49:ARG:O	2.65	0.44
18:B3:1878:G:O2'	18:B3:1879:U:C6	2.66	0.44
18:B3:1943:C:H5"	21:BB:218:ILE:HG12	1.91	0.44
18:B3:2247:C:O2'	18:B3:2248:C:H5'	2.18	0.44
18:B3:2368:A:O5'	24:BE:31:TYR:CE2	2.70	0.44
18:B3:2709:G:O2'	37:BR:125:LEU:CD2	2.65	0.44
18:B3:2780:C:P	27:BH:162:GLN:HE21	2.40	0.44
18:B3:2819:C:H2'	18:B3:2820:A:H8	1.81	0.44
19:B4:69:U:H4'	24:BE:14:SER:C	2.37	0.44
20:BA:24:LYS:HD2	20:BA:24:LYS:C	2.38	0.44
21:BB:223:THR:HG23	21:BB:223:THR:O	2.17	0.44
21:BB:240:ARG:H	21:BB:240:ARG:HE	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:242:THR:HG22	21:BB:243:GLY:H	1.79	0.44
22:BC:52:MET:SD	22:BC:304:ILE:HG21	2.57	0.44
22:BC:279:HIS:HB3	22:BC:323:VAL:HG23	2.00	0.44
24:BE:107:ARG:HB2	24:BE:226:TYR:CE1	2.44	0.44
24:BE:110:LEU:CG	24:BE:171:LEU:CB	2.94	0.44
24:BE:183:TRP:HB2	24:BE:184:ASP:H	1.19	0.44
25:BF:231:ARG:HB3	25:BF:234:PHE:HD1	1.80	0.44
26:BG:151:LEU:CD2	26:BG:185:LEU:HD13	2.48	0.44
27:BH:52:LEU:CG	27:BH:53:ILE:N	2.81	0.44
27:BH:64:HIS:CG	27:BH:65:VAL:N	2.86	0.44
27:BH:92:TYR:HB3	27:BH:179:ILE:HG22	1.99	0.44
27:BH:97:PHE:CD1	27:BH:97:PHE:N	2.85	0.44
27:BH:105:GLU:O	27:BH:106:LYS:HB3	2.17	0.44
28:BI:60:LEU:CD1	28:BI:159:PHE:CE1	2.96	0.44
29:BJ:18:LEU:CD1	29:BJ:68:VAL:CG2	2.95	0.44
29:BJ:71:ARG:CG	29:BJ:72:GLY:N	2.78	0.44
30:BK:113:ALA:CA	30:BK:132:ILE:CD1	2.94	0.44
31:BL:46:LYS:C	31:BL:49:ARG:HB3	2.37	0.44
31:BL:51:GLY:O	31:BL:132:ILE:HD13	2.17	0.44
31:BL:166:THR:HG1	31:BL:169:LYS:HB2	1.82	0.44
32:BM:72:PHE:CD2	32:BM:81:LYS:HB3	2.53	0.44
32:BM:98:LEU:HB3	32:BM:99:GLU:OE2	2.18	0.44
32:BM:137:LEU:HD12	32:BM:137:LEU:N	2.33	0.44
33:BN:117:GLN:HB3	33:BN:146:GLU:HG3	2.00	0.44
33:BN:139:GLU:HG3	33:BN:140:SER:N	2.32	0.44
34:BO:107:THR:O	34:BO:108:ALA:HB3	2.18	0.44
34:BO:112:ALA:CA	34:BO:115:VAL:CG2	2.95	0.44
35:BP:16:VAL:HG21	35:BP:20:LYS:O	2.18	0.44
35:BP:54:VAL:HG22	35:BP:55:THR:N	2.32	0.44
36:BQ:97:LYS:O	36:BQ:98:HIS:HB2	2.17	0.44
37:BR:62:VAL:CG2	37:BR:70:ARG:CA	2.93	0.44
37:BR:78:VAL:CG2	37:BR:81:GLN:HE22	2.22	0.44
37:BR:102:ILE:CD1	37:BR:102:ILE:N	2.81	0.44
40:BU:43:TYR:O	40:BU:43:TYR:CG	2.71	0.44
40:BU:58:VAL:CG1	40:BU:65:GLY:H	2.31	0.44
41:BV:82:PRO:HD2	41:BV:120:VAL:HG22	1.99	0.44
42:B0:112:ALA:O	42:B0:117:ILE:HD11	2.18	0.44
47:B9:43:LYS:O	47:B9:44:LYS:HB2	2.17	0.44
1:AA:27:G:N2	1:AA:296:U:H4'	2.32	0.44
1:AA:363:A:C3'	12:AL:50:LYS:HG2	2.31	0.44
1:AA:615:C:P	5:AD:107:ARG:HH11	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:735:C:O2'	1:AA:736:C:H5'	2.17	0.44
1:AA:828:A:H5"	1:AA:859:A:C2	2.53	0.44
1:AA:1005:A:H2'	1:AA:1006:C:O4'	2.17	0.44
1:AA:1077:G:N2	1:AA:1080:A:OP2	2.50	0.44
1:AA:1262:C:H2'	1:AA:1263:C:C6	2.52	0.44
1:AA:1319:A:H5"	17:AS:115:TYR:OH	2.14	0.44
1:AA:1346:A:N6	7:AG:80:ARG:NH1	2.66	0.44
2:AT:140:GLU:H	2:AT:481:MET:HG3	1.75	0.44
4:AC:16:PHE:HB3	4:AC:76:PHE:HZ	1.72	0.44
4:AC:75:ARG:HD2	4:AC:75:ARG:N	2.32	0.44
4:AC:93:ARG:HG2	4:AC:99:ALA:CB	2.47	0.44
5:AD:26:ALA:HB3	5:AD:70:LEU:HD21	1.96	0.44
5:AD:86:LEU:CD2	5:AD:104:PHE:CD2	2.94	0.44
5:AD:150:LEU:H	5:AD:150:LEU:CD1	2.31	0.44
5:AD:152:SER:CB	5:AD:154:LYS:HE3	2.48	0.44
8:AH:82:ILE:HD13	8:AH:85:ILE:O	2.16	0.44
11:AK:41:VAL:HG23	11:AK:44:GLY:N	2.25	0.44
12:AL:70:LYS:HB2	12:AL:87:VAL:CG2	2.48	0.44
13:AM:56:LYS:HD3	13:AM:61:LEU:HD23	2.00	0.44
13:AM:62:THR:HB	13:AM:65:GLU:HG3	1.98	0.44
13:AM:117:LYS:CD	13:AM:128:PHE:CE1	2.99	0.44
18:B3:105:G:O2'	18:B3:106:A:H5'	2.18	0.44
18:B3:281:U:C2'	18:B3:282:C:O4'	2.60	0.44
18:B3:392:U:O4'	31:BL:195:THR:CG2	2.64	0.44
18:B3:706:G:H22	34:BO:72:LYS:CE	2.28	0.44
18:B3:735:C:C5	18:B3:736:A:C5	3.06	0.44
18:B3:771:G:P	31:BL:76:LYS:HG3	2.58	0.44
18:B3:924:G:N1	41:BV:41:ARG:HG3	2.28	0.44
18:B3:1306:U:OP1	23:BD:196:ARG:CZ	2.66	0.44
18:B3:1433:G:O2'	18:B3:1434:A:H5'	2.18	0.44
18:B3:1569:U:H3'	18:B3:1570:C:H5'	2.00	0.44
18:B3:1587:U:C4	18:B3:1588:G:C6	3.06	0.44
18:B3:1643:C:O2'	18:B3:1644:C:H5'	2.18	0.44
18:B3:1871:U:P	21:BB:192:ARG:CG	3.03	0.44
18:B3:1901:G:O2'	18:B3:1902:G:H5'	2.18	0.44
18:B3:2214:A:H5"	20:BA:83:ASP:HB3	1.99	0.44
18:B3:2279:G:C2	18:B3:2463:A:H1'	2.53	0.44
18:B3:2319:C:OP1	46:BZ:1:VAL:HG21	2.17	0.44
18:B3:2334:C:N4	29:BJ:115:TYR:CA	2.74	0.44
18:B3:2419:U:H5"	18:B3:2420:G:H5'	1.99	0.44
18:B3:2458:U:OP1	46:BZ:83:THR:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2657:G:H4'	22:BC:20:ARG:HE	1.81	0.44
18:B3:2729:C:O2'	18:B3:2730:G:H5'	2.17	0.44
18:B3:2846:C:H2'	18:B3:2847:G:H8	1.82	0.44
20:BA:36:VAL:CG1	20:BA:204:LEU:CD1	2.95	0.44
20:BA:90:LEU:HD11	20:BA:120:VAL:CA	2.48	0.44
21:BB:179:LEU:CA	47:B9:20:SER:CA	2.86	0.44
22:BC:11:GLY:HA3	22:BC:232:TRP:CB	2.46	0.44
22:BC:47:GLY:N	22:BC:80:THR:CG2	2.81	0.44
22:BC:115:ARG:HA	22:BC:115:ARG:HH11	1.79	0.44
22:BC:156:VAL:HB	22:BC:181:GLN:NE2	2.33	0.44
22:BC:359:ASP:CA	38:BS:14:TYR:HB2	2.46	0.44
23:BD:34:VAL:HA	23:BD:120:ALA:HB1	2.00	0.44
23:BD:130:VAL:HG13	23:BD:131:ALA:N	2.32	0.44
23:BD:185:LYS:HA	23:BD:185:LYS:HZ3	1.83	0.44
24:BE:50:ARG:HD2	24:BE:147:ASP:OD1	2.18	0.44
24:BE:68:THR:HB	24:BE:71:GLY:HA3	2.00	0.44
26:BG:111:GLU:HB2	26:BG:117:GLU:CG	2.47	0.44
26:BG:130:ALA:CB	26:BG:201:GLU:HG3	2.47	0.44
27:BH:134:ILE:CD1	27:BH:146:LEU:CD1	2.94	0.44
28:BI:46:PHE:CE1	28:BI:139:ARG:NE	2.85	0.44
32:BM:14:LEU:HB3	32:BM:17:ARG:NE	2.26	0.44
32:BM:25:GLN:NE2	32:BM:26:LEU:HA	2.32	0.44
34:BO:113:LYS:HZ2	34:BO:116:LYS:HZ2	1.65	0.44
36:BQ:73:GLY:C	36:BQ:89:LEU:HD22	2.37	0.44
37:BR:95:PHE:CE2	38:BS:23:ARG:CB	3.01	0.44
37:BR:102:ILE:CD1	37:BR:102:ILE:H	2.30	0.44
38:BS:8:PHE:HD1	38:BS:46:PRO:HG2	1.83	0.44
40:BU:14:LYS:CE	40:BU:14:LYS:CA	2.95	0.44
40:BU:37:LYS:CA	40:BU:40:ARG:HD3	2.45	0.44
40:BU:79:ALA:HB1	40:BU:98:ASN:HB3	1.99	0.44
41:BV:81:ILE:HG22	41:BV:120:VAL:CG1	2.48	0.44
41:BV:97:THR:HG21	41:BV:124:VAL:HG13	2.00	0.44
41:BV:110:LYS:HB2	41:BV:128:PHE:O	2.18	0.44
43:BW:49:ARG:HB3	43:BW:49:ARG:NH1	2.32	0.44
43:BW:58:ILE:CG2	43:BW:59:TRP:NE1	2.79	0.44
1:AA:111:G:C2	1:AA:389:A:C5'	2.85	0.44
1:AA:243:A:N6	1:AA:281:G:O2'	2.50	0.44
1:AA:409:G:H2'	1:AA:410:G:O4'	2.18	0.44
1:AA:452:A:O2'	1:AA:453:A:O4'	2.34	0.44
1:AA:517:G:H5'	1:AA:519:C:C2	2.53	0.44
1:AA:537:G:C3'	12:AL:143:PRO:HD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:560:U:O2'	1:AA:563:A:O4'	2.34	0.44
1:AA:1074:G:O2'	3:AB:102:THR:CG2	2.65	0.44
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.99	0.44
2:AT:68:ILE:HG22	2:AT:69:THR:N	2.33	0.44
2:AT:126:LEU:CD1	2:AT:156:VAL:HG23	2.36	0.44
2:AT:138:GLN:HB2	18:B3:2697:A:O3'	2.18	0.44
2:AT:169:VAL:HG12	2:AT:170:SER:N	2.33	0.44
2:AT:464:LEU:CD2	2:AT:510:ARG:HA	2.47	0.44
3:AB:138:VAL:CG1	3:AB:140:ILE:CG1	2.95	0.44
5:AD:79:ARG:HH21	5:AD:80:LEU:HD23	1.83	0.44
5:AD:134:ILE:CG2	5:AD:135:ALA:N	2.81	0.44
5:AD:153:GLU:O	5:AD:154:LYS:HE2	2.17	0.44
6:AE:105:ASP:CB	6:AE:142:TYR:CE1	2.93	0.44
7:AG:157:GLN:HE21	7:AG:157:GLN:CA	2.29	0.44
9:AI:11:LYS:HA	9:AI:15:ALA:O	2.18	0.44
9:AI:13:LYS:HE3	9:AI:75:SER:CB	2.48	0.44
9:AI:101:LYS:N	9:AI:105:LYS:HA	2.33	0.44
10:AJ:108:ILE:HG13	10:AJ:109:GLU:N	2.33	0.44
11:AK:12:VAL:HG23	11:AK:76:THR:OG1	2.18	0.44
12:AL:62:LYS:HG2	12:AL:63:GLN:N	2.33	0.44
13:AM:132:ARG:CD	13:AM:145:ARG:CB	2.95	0.44
16:AQ:93:ILE:HD12	16:AQ:96:TYR:HD2	1.82	0.44
18:B3:48:A:C2	18:B3:49:A:H1'	1.86	0.44
18:B3:107:U:C1'	44:BX:60:GLU:HA	2.47	0.44
18:B3:107:U:C5'	44:BX:58:ILE:C	2.81	0.44
18:B3:270:U:O2'	18:B3:271:C:P	2.75	0.44
18:B3:324:G:O2'	18:B3:325:U:H5'	2.18	0.44
18:B3:766:A:O2'	18:B3:767:A:H5"	2.18	0.44
18:B3:954:U:P	36:BQ:13:TYR:HH	2.41	0.44
18:B3:1228:C:OP1	32:BM:47:PHE:CD1	2.70	0.44
18:B3:1398:G:H4'	35:BP:25:PRO:CD	2.41	0.44
18:B3:1398:G:OP1	35:BP:23:LEU:HB2	2.15	0.44
18:B3:1761:U:H2'	18:B3:1762:C:H6	1.82	0.44
18:B3:1805:G:C4	18:B3:2883:A:C6	3.06	0.44
18:B3:1846:U:OP1	21:BB:195:TRP:HZ2	1.99	0.44
18:B3:1850:U:H2'	18:B3:1851:G:H8	1.82	0.44
18:B3:2076:U:O2'	18:B3:2077:C:OP1	2.35	0.44
18:B3:2312:G:C2'	18:B3:2313:C:H5'	2.48	0.44
18:B3:2328:U:O5'	24:BE:153:THR:OG1	2.34	0.44
18:B3:2519:C:H5'	28:BI:158:LYS:HD3	1.89	0.44
18:B3:2565:C:N3	27:BH:171:ASP:OD2	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2720:C:P	38:BS:17:ARG:HH11	2.02	0.44
18:B3:2861:G:HO2'	22:BC:364:PHE:HE1	1.49	0.44
19:B4:11:A:N1	24:BE:12:TYR:CB	2.78	0.44
19:B4:71:C:O2'	19:B4:72:C:H5'	2.17	0.44
20:BA:43:PRO:C	20:BA:132:GLY:O	2.56	0.44
20:BA:63:MET:CE	20:BA:160:LYS:NZ	2.81	0.44
21:BB:60:VAL:CG1	21:BB:61:VAL:N	2.81	0.44
21:BB:138:HIS:CG	21:BB:141:ASP:CB	3.00	0.44
22:BC:48:TYR:CG	22:BC:336:THR:N	2.83	0.44
22:BC:57:ARG:HE	22:BC:353:VAL:HG21	1.83	0.44
22:BC:98:LEU:CD2	22:BC:98:LEU:H	2.30	0.44
22:BC:232:TRP:N	22:BC:232:TRP:CD2	2.86	0.44
22:BC:247:LYS:H	22:BC:247:LYS:CD	2.31	0.44
23:BD:134:VAL:N	23:BD:137:ARG:HH22	2.15	0.44
24:BE:116:ASP:HB2	24:BE:142:PHE:HA	1.98	0.44
24:BE:184:ASP:O	24:BE:200:PHE:HB3	2.18	0.44
25:BF:85:VAL:O	25:BF:85:VAL:HG13	2.16	0.44
25:BF:117:LYS:CE	25:BF:118:VAL:H	2.29	0.44
25:BF:168:ILE:HG13	25:BF:175:TYR:C	2.38	0.44
25:BF:178:LEU:HD13	25:BF:182:ASP:OD2	2.17	0.44
26:BG:159:ILE:CG2	26:BG:161:LEU:CG	2.93	0.44
27:BH:8:GLN:CG	27:BH:72:LYS:CE	2.95	0.44
27:BH:21:LYS:H	27:BH:24:ILE:HD11	1.81	0.44
27:BH:128:VAL:HG13	27:BH:132:VAL:HG11	2.00	0.44
28:BI:15:LYS:CB	28:BI:16:PRO:HD3	2.47	0.44
28:BI:38:LYS:HB3	28:BI:38:LYS:HZ3	1.82	0.44
28:BI:51:HIS:HB2	28:BI:152:LEU:HD22	1.93	0.44
29:BJ:68:VAL:CG1	29:BJ:69:THR:N	2.79	0.44
31:BL:43:ARG:CZ	31:BL:43:ARG:H	2.30	0.44
31:BL:63:VAL:CG2	31:BL:105:VAL:CG2	2.95	0.44
31:BL:98:ARG:CA	31:BL:129:PHE:CE2	2.94	0.44
31:BL:112:LEU:HD23	31:BL:133:LEU:CD1	2.40	0.44
31:BL:171:ARG:CZ	31:BL:171:ARG:CB	2.94	0.44
32:BM:5:VAL:HG12	32:BM:31:LYS:HB2	1.99	0.44
32:BM:90:LYS:O	32:BM:95:LYS:HD2	2.18	0.44
33:BN:27:ASN:HA	33:BN:27:ASN:HD21	1.45	0.44
35:BP:10:ALA:HB1	35:BP:21:VAL:CG2	2.45	0.44
37:BR:31:ALA:CB	37:BR:32:ARG:CZ	2.95	0.44
37:BR:59:MET:HA	37:BR:74:MET:CG	2.36	0.44
40:BU:14:LYS:CD	40:BU:17:LYS:HD3	2.44	0.44
40:BU:27:ARG:HH21	40:BU:28:ARG:HD3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:121:PRO:O	41:BV:122:VAL:HG22	2.16	0.44
42:B0:115:LEU:H	42:B0:115:LEU:CD2	2.30	0.44
44:BX:49:LYS:CD	44:BX:50:SER:N	2.80	0.44
47:B9:32:GLN:HG3	47:B9:69:THR:N	2.24	0.44
1:AA:321:A:H5'	1:AA:1437:C:O4'	2.17	0.44
1:AA:335:C:H2'	1:AA:1434:A:C8	2.44	0.44
1:AA:405:U:H5"	5:AD:37:LYS:CE	2.47	0.44
1:AA:533:A:O2'	1:AA:534:U:P	2.76	0.44
1:AA:562:C:C2	12:AL:32:ARG:CD	2.94	0.44
1:AA:858:G:O2'	1:AA:859:A:H5'	2.18	0.44
1:AA:977:A:H2'	1:AA:978:A:C5'	2.45	0.44
1:AA:1001:A:H2'	1:AA:1002:G:C8	2.53	0.44
1:AA:1190:G:HO2'	1:AA:1191:A:P	2.41	0.44
1:AA:1219:U:C3'	17:AS:78:THR:OG1	2.66	0.44
1:AA:1289:A:H2'	1:AA:1290:G:H5'	1.99	0.44
5:AD:27:GLU:HA	5:AD:34:PHE:HD2	1.83	0.44
6:AE:107:ASN:OD1	6:AE:143:TRP:N	2.49	0.44
6:AE:156:LYS:HB3	8:AH:95:ALA:CB	2.41	0.44
7:AG:98:MET:O	7:AG:101:ARG:HG2	2.18	0.44
7:AG:185:ASN:HB2	7:AG:191:GLU:CD	2.38	0.44
9:AI:99:GLN:O	9:AI:116:LEU:HB3	2.17	0.44
10:AJ:58:LEU:CG	10:AJ:90:TYR:CD2	2.96	0.44
10:AJ:70:THR:HG21	14:AN:37:ILE:HG23	1.99	0.44
11:AK:127:LYS:HD3	11:AK:131:ARG:HD3	1.98	0.44
12:AL:141:GLU:CG	12:AL:143:PRO:HG2	2.47	0.44
16:AQ:108:VAL:CG1	16:AQ:138:VAL:N	2.81	0.44
18:B3:107:U:OP2	44:BX:60:GLU:O	2.35	0.44
18:B3:140:G:H3'	18:B3:140:G:C8	2.53	0.44
18:B3:882:A:H5"	45:BY:1:GLY:C	2.35	0.44
18:B3:1019:C:OP1	36:BQ:79:MET:SD	2.75	0.44
18:B3:1116:U:O4'	18:B3:1224:G:H2'	2.17	0.44
18:B3:1228:C:C5'	32:BM:47:PHE:CE1	2.97	0.44
18:B3:1263:C:H5"	25:BF:205:LYS:HD2	1.20	0.44
18:B3:1535:G:H2'	18:B3:1536:C:C6	2.52	0.44
18:B3:2320:U:C6	46:BZ:3:VAL:HB	2.52	0.44
18:B3:2338:G:H4'	29:BJ:126:PHE:HB2	1.75	0.44
18:B3:2382:A:C5	46:BZ:10:TYR:HE2	2.32	0.44
18:B3:2388:C:O2'	18:B3:2389:U:H5'	2.17	0.44
18:B3:2768:A:C2'	18:B3:2769:C:O4'	2.51	0.44
18:B3:2808:U:H1'	22:BC:15:PHE:N	2.33	0.44
19:B4:8:G:O6	24:BE:21:ARG:HD2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:61:C:H2'	19:B4:62:A:H8	1.83	0.44
19:B4:85:A:H5'	25:BF:131:PRO:CG	2.36	0.44
20:BA:169:VAL:HG21	20:BA:179:LEU:HD11	2.00	0.44
21:BB:6:ASN:ND2	21:BB:233:LYS:HE3	2.33	0.44
21:BB:106:VAL:HG13	21:BB:106:VAL:O	2.18	0.44
22:BC:10:HIS:HB2	22:BC:232:TRP:HD1	1.82	0.44
22:BC:26:ALA:CB	22:BC:217:ILE:CG1	2.96	0.44
22:BC:185:GLY:H	22:BC:190:LYS:CG	2.30	0.44
22:BC:226:GLU:HB3	22:BC:269:ARG:NE	2.32	0.44
22:BC:228:VAL:CG2	22:BC:246:ARG:HD3	2.46	0.44
22:BC:232:TRP:CZ2	22:BC:264:ALA:HA	2.53	0.44
23:BD:150:VAL:HA	23:BD:249:TRP:O	2.17	0.44
24:BE:47:PRO:CB	24:BE:67:SER:HB3	2.45	0.44
25:BF:147:VAL:CG2	25:BF:148:TYR:N	2.80	0.44
25:BF:190:VAL:CG1	25:BF:191:GLY:N	2.80	0.44
26:BG:132:LYS:HG3	26:BG:141:LEU:CD2	2.34	0.44
26:BG:135:LEU:HA	26:BG:138:VAL:CG1	2.48	0.44
27:BH:90:MET:CB	27:BH:182:SER:H	2.31	0.44
28:BI:50:VAL:CG2	28:BI:137:SER:CB	2.91	0.44
28:BI:135:ILE:H	28:BI:135:ILE:CD1	2.28	0.44
28:BI:145:LYS:O	28:BI:146:ASP:HB3	2.18	0.44
29:BJ:16:LEU:CD2	29:BJ:70:VAL:CG1	2.93	0.44
29:BJ:51:TYR:CD1	29:BJ:58:ILE:O	2.71	0.44
29:BJ:166:TYR:CD1	29:BJ:167:ASP:CB	3.01	0.44
30:BK:53:PHE:HE1	30:BK:86:LYS:CE	2.09	0.44
30:BK:85:LEU:CD2	30:BK:102:GLY:HA3	2.47	0.44
32:BM:25:GLN:HA	32:BM:28:ASN:HD21	1.80	0.44
32:BM:91:THR:HA	32:BM:95:LYS:HZ2	1.83	0.44
32:BM:127:ARG:HD2	32:BM:127:ARG:N	2.33	0.44
33:BN:36:ASN:N	33:BN:38:TRP:CD1	2.84	0.44
33:BN:81:ARG:HG2	33:BN:82:TRP:N	2.32	0.44
34:BO:120:GLU:OE1	34:BO:120:GLU:HA	2.18	0.44
35:BP:19:ARG:CZ	35:BP:20:LYS:CG	2.95	0.44
35:BP:92:VAL:CG2	35:BP:93:VAL:N	2.81	0.44
36:BQ:71:SER:C	36:BQ:92:ARG:HH21	2.21	0.44
37:BR:26:ALA:HA	37:BR:115:THR:CG2	2.48	0.44
38:BS:23:ARG:HG3	38:BS:28:ILE:CB	2.48	0.44
40:BU:35:LEU:CD1	40:BU:47:ALA:CA	2.94	0.44
42:B0:44:ARG:CZ	42:B0:44:ARG:CB	2.95	0.44
42:B0:98:HIS:O	42:B0:99:ASN:HB3	2.18	0.44
43:BW:27:ARG:NH1	43:BW:66:VAL:HG23	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:25:THR:HG23	46:BZ:27:TYR:H	1.82	0.44
46:BZ:27:TYR:CE1	46:BZ:68:VAL:CG2	2.99	0.44
47:B9:28:LEU:HD22	47:B9:28:LEU:C	2.39	0.44
1:AA:173:U:O4	1:AA:381:C:N4	2.51	0.44
1:AA:359:U:C6	2:AT:391:LYS:CG	2.95	0.44
1:AA:389:A:H2'	1:AA:390:C:C5'	2.48	0.44
1:AA:403:C:H3'	5:AD:126:ARG:HD2	1.01	0.44
1:AA:958:A:C8	17:AS:101:ALA:CB	3.01	0.44
1:AA:976:G:C8	1:AA:1358:U:O2	2.71	0.44
1:AA:1176:A:C4	9:AI:108:PHE:CD2	3.06	0.44
1:AA:1219:U:OP1	17:AS:58:LYS:NZ	2.50	0.44
1:AA:1249:C:H2'	9:AI:71:GLY:O	2.17	0.44
1:AA:1297:C:C5'	13:AM:54:LEU:C	2.56	0.44
1:AA:1399:C:C2	1:AA:1502:A:N6	2.86	0.44
2:AT:515:ASP:OD2	2:AT:537:HIS:HE1	2.01	0.44
2:AT:647:ILE:HD12	2:AT:647:ILE:N	2.33	0.44
3:AB:52:THR:HG21	3:AB:161:CYS:HG	1.81	0.44
4:AC:43:THR:HB	4:AC:81:GLY:CA	2.48	0.44
5:AD:100:LYS:HE3	5:AD:173:ALA:HB2	2.00	0.44
5:AD:190:GLU:CD	5:AD:190:GLU:H	2.21	0.44
6:AE:221:TYR:N	8:AH:99:GLY:HA2	2.31	0.44
7:AG:91:ARG:HG2	7:AG:92:LEU:HD12	2.00	0.44
9:AI:42:ILE:HD12	9:AI:45:PHE:HB2	1.92	0.44
9:AI:50:PRO:HD3	9:AI:115:LEU:HD13	2.00	0.44
9:AI:100:SER:C	9:AI:116:LEU:HD22	2.39	0.44
9:AI:115:LEU:HD23	9:AI:115:LEU:HA	1.91	0.44
11:AK:42:THR:CG2	11:AK:52:ASP:CB	2.94	0.44
13:AM:136:GLN:HE22	13:AM:136:GLN:HB2	1.33	0.44
14:AN:22:VAL:CG1	14:AN:23:CYS:H	2.29	0.44
15:AO:74:LEU:HG	15:AO:89:TYR:OH	2.18	0.44
16:AQ:85:ILE:HD13	16:AQ:108:VAL:HG21	1.99	0.44
17:AS:108:ARG:HB3	17:AS:109:PRO:HD2	1.98	0.44
17:AS:124:THR:HB	17:AS:126:VAL:HG22	2.00	0.44
18:B3:27:U:H5'	18:B3:1320:U:OP2	2.18	0.44
18:B3:108:U:C5	44:BX:60:GLU:O	2.70	0.44
18:B3:164:G:C2'	41:BV:31:ARG:HB2	2.48	0.44
18:B3:269:G:H5"	18:B3:274:G:O2'	2.16	0.44
18:B3:305:A:C5	18:B3:329:A:C2	3.05	0.44
18:B3:364:C:H2'	18:B3:365:G:O4'	2.18	0.44
18:B3:898:G:H5"	41:BV:25:ARG:CZ	2.48	0.44
18:B3:1508:C:H5"	39:BT:78:GLY:CA	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1847:A:H1'	47:B9:20:SER:OG	2.18	0.44
18:B3:1930:A:H2'	18:B3:1931:A:C8	2.52	0.44
18:B3:2165:G:N7	20:BA:60:ARG:HD2	2.32	0.44
18:B3:2372:A:H2'	18:B3:2373:U:H6	1.83	0.44
18:B3:2713:G:OP1	37:BR:44:SER:C	2.56	0.44
18:B3:2765:C:H2'	18:B3:2766:A:H8	1.82	0.44
18:B3:2859:C:O2'	18:B3:2860:G:H5'	2.18	0.44
19:B4:13:A:O3'	24:BE:20:PHE:CZ	2.71	0.44
20:BA:19:TYR:CD2	20:BA:214:PHE:CE1	3.06	0.44
20:BA:58:CYS:SG	20:BA:59:PRO:N	2.91	0.44
21:BB:43:ILE:HG13	21:BB:61:VAL:HB	2.00	0.44
21:BB:51:SER:N	21:BB:53:ARG:CZ	2.81	0.44
21:BB:62:PHE:HD2	21:BB:64:ASP:O	2.01	0.44
22:BC:40:VAL:CG1	22:BC:43:THR:CA	2.92	0.44
22:BC:52:MET:CG	22:BC:53:THR:N	2.81	0.44
23:BD:151:VAL:CG2	23:BD:248:ILE:CG1	2.95	0.44
23:BD:172:GLY:O	23:BD:174:HIS:HD2	2.01	0.44
24:BE:63:GLN:HG3	24:BE:74:VAL:CG2	2.46	0.44
24:BE:80:SER:CA	24:BE:101:THR:HG21	2.48	0.44
24:BE:106:ALA:HB2	24:BE:110:LEU:HD22	1.95	0.44
24:BE:144:VAL:CG2	24:BE:171:LEU:CD2	2.95	0.44
25:BF:179:SER:C	25:BF:183:LEU:HD11	2.38	0.44
27:BH:164:ILE:HD12	27:BH:164:ILE:C	2.39	0.44
28:BI:30:LYS:HG3	28:BI:30:LYS:O	2.17	0.44
28:BI:51:HIS:CB	28:BI:152:LEU:CD2	2.95	0.44
28:BI:91:VAL:HG22	28:BI:92:HIS:O	2.18	0.44
30:BK:84:ALA:C	30:BK:104:ILE:HD13	2.38	0.44
31:BL:99:ALA:HA	31:BL:168:LYS:HD3	1.95	0.44
32:BM:4:PRO:CA	32:BM:32:ILE:HG12	2.36	0.44
32:BM:58:ARG:CD	32:BM:60:ALA:N	2.81	0.44
33:BN:141:SER:HA	33:BN:142:PRO:HD2	1.84	0.44
35:BP:23:LEU:HD23	35:BP:24:ASP:N	2.30	0.44
35:BP:37:ARG:CD	35:BP:37:ARG:N	2.81	0.44
35:BP:101:LEU:HD22	35:BP:101:LEU:N	2.33	0.44
37:BR:94:TYR:CD1	37:BR:94:TYR:O	2.71	0.44
38:BS:22:VAL:O	38:BS:22:VAL:HG13	2.18	0.44
41:BV:10:HIS:CG	41:BV:11:ARG:N	2.86	0.44
43:BW:59:TRP:HH2	43:BW:66:VAL:CG2	2.29	0.44
44:BX:41:LEU:HD11	44:BX:43:LYS:CE	2.39	0.44
45:BY:21:CYS:CB	45:BY:38:TYR:HH	2.31	0.44
47:B9:55:THR:HG23	47:B9:63:VAL:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:66:G:H4'	1:AA:173:U:O2	1.71	0.43
1:AA:118:U:O3'	1:AA:122:G:C8	2.71	0.43
1:AA:197:A:H1'	1:AA:198:G:O4'	2.17	0.43
1:AA:619:U:O4'	5:AD:132:ARG:HA	2.17	0.43
1:AA:640:A:O2'	1:AA:641:U:H5'	2.18	0.43
1:AA:1158:C:N3	1:AA:1181:G:N2	2.64	0.43
1:AA:1176:A:H3'	9:AI:108:PHE:N	2.32	0.43
1:AA:1317:C:H2'	17:AS:54:ALA:HA	2.00	0.43
1:AA:1502:A:H2	1:AA:1505:G:C2	2.36	0.43
8:AH:17:GLU:HG3	8:AH:18:LYS:N	2.32	0.43
9:AI:54:VAL:CG1	9:AI:88:LEU:CD2	2.94	0.43
16:AQ:87:ARG:HD3	16:AQ:87:ARG:C	2.37	0.43
17:AS:83:MET:CE	17:AS:116:LEU:CD1	2.95	0.43
18:B3:80:A:H5'	40:BU:74:TYR:CE1	2.52	0.43
18:B3:194:A:H4'	31:BL:178:LYS:N	2.32	0.43
18:B3:212:A:O4'	18:B3:214:U:C6	2.71	0.43
18:B3:343:C:O2'	18:B3:344:C:H5'	2.18	0.43
18:B3:392:U:H5'	31:BL:195:THR:HA	2.00	0.43
18:B3:1002:G:O2'	28:BI:90:ARG:NH1	2.42	0.43
18:B3:1120:U:H5"	18:B3:1120:U:H6	1.82	0.43
18:B3:1304:U:H2'	23:BD:194:ARG:HD2	2.00	0.43
18:B3:1315:G:H4'	18:B3:1316:G:OP2	2.17	0.43
18:B3:1398:G:C4'	35:BP:25:PRO:CD	2.95	0.43
18:B3:1469:C:C3'	31:BL:71:LYS:NZ	2.79	0.43
18:B3:1734:C:C5'	22:BC:245:LEU:HB3	2.44	0.43
18:B3:1882:C:P	21:BB:200:GLY:CA	3.02	0.43
18:B3:2051:G:H5'	33:BN:85:LYS:HD2	1.44	0.43
18:B3:2124:G:O2'	21:BB:229:VAL:CG1	2.62	0.43
18:B3:2350:G:P	29:BJ:139:ARG:HD3	2.55	0.43
18:B3:2576:A:C2	18:B3:2800:A:N6	2.73	0.43
18:B3:2806:C:OP1	22:BC:342:TYR:CD2	2.71	0.43
18:B3:2846:C:OP1	22:BC:176:HIS:CG	2.71	0.43
21:BB:62:PHE:CB	21:BB:66:TYR:CD1	2.93	0.43
21:BB:113:SER:CA	21:BB:164:VAL:HG22	2.48	0.43
22:BC:19:LYS:O	22:BC:271:TYR:CZ	2.71	0.43
22:BC:121:TRP:CD1	22:BC:122:TYR:CD2	3.05	0.43
22:BC:182:LEU:HD13	22:BC:182:LEU:N	2.33	0.43
24:BE:41:LYS:HZ2	24:BE:143:LYS:HD2	1.82	0.43
24:BE:54:ARG:HB2	24:BE:61:ILE:HG23	1.92	0.43
24:BE:87:GLY:HA3	24:BE:222:LEU:CD2	2.44	0.43
24:BE:95:TRP:C	24:BE:99:TYR:HE2	2.20	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:144:VAL:HG23	24:BE:171:LEU:CD1	2.47	0.43
25:BF:82:LEU:HD12	25:BF:188:ILE:O	2.17	0.43
26:BG:105:LYS:CB	26:BG:108:LEU:HD23	2.44	0.43
26:BG:105:LYS:H	26:BG:108:LEU:HD23	1.82	0.43
26:BG:127:LYS:CB	26:BG:128:PRO:HD3	2.37	0.43
26:BG:211:ALA:HA	26:BG:214:VAL:HG22	1.98	0.43
27:BH:18:VAL:O	27:BH:19:SER:HB3	2.17	0.43
27:BH:26:LYS:N	27:BH:26:LYS:CD	2.82	0.43
28:BI:139:ARG:N	28:BI:139:ARG:CD	2.81	0.43
29:BJ:40:SER:O	29:BJ:74:LYS:HD2	2.18	0.43
29:BJ:66:VAL:O	29:BJ:67:HIS:HB3	2.18	0.43
30:BK:44:GLU:OE1	30:BK:44:GLU:HA	2.17	0.43
31:BL:25:ARG:HD2	31:BL:26:VAL:N	2.29	0.43
32:BM:25:GLN:HE21	32:BM:30:GLN:HB2	1.83	0.43
33:BN:8:THR:HG23	33:BN:10:PRO:HD3	2.00	0.43
33:BN:84:ALA:HB1	33:BN:85:LYS:HZ1	1.82	0.43
35:BP:22:TRP:NE1	35:BP:49:ILE:CD1	2.78	0.43
35:BP:22:TRP:HE3	35:BP:51:LYS:N	2.16	0.43
35:BP:31:ILE:O	35:BP:32:ALA:HB2	2.18	0.43
35:BP:101:LEU:HD11	35:BP:134:LYS:HA	2.00	0.43
36:BQ:72:VAL:CG1	36:BQ:74:VAL:CG2	2.95	0.43
36:BQ:79:MET:CE	36:BQ:82:ASN:HA	2.47	0.43
37:BR:89:ASP:HB3	37:BR:90:GLY:H	1.63	0.43
37:BR:92:PHE:CD1	38:BS:20:LEU:HG	2.45	0.43
39:BT:107:LEU:O	39:BT:107:LEU:HD23	2.17	0.43
40:BU:48:LEU:HD11	40:BU:109:LEU:HD12	1.97	0.43
44:BX:25:LYS:HB2	44:BX:25:LYS:HE2	1.71	0.43
44:BX:48:ARG:NH1	44:BX:49:LYS:HA	2.33	0.43
44:BX:48:ARG:CD	44:BX:49:LYS:N	2.81	0.43
45:BY:25:SER:CB	45:BY:35:SER:HB2	2.48	0.43
45:BY:33:CYS:N	45:BY:38:TYR:CE1	2.85	0.43
45:BY:37:GLY:O	45:BY:44:ARG:HG3	2.18	0.43
47:B9:52:GLY:HA2	47:B9:54:TRP:CH2	2.50	0.43
1:AA:45:U:H2'	1:AA:46:G:C8	2.53	0.43
1:AA:619:U:H6	5:AD:142:ASN:HD22	1.66	0.43
1:AA:662:G:H2'	1:AA:663:A:H8	1.78	0.43
1:AA:754:C:C4'	15:AO:127:TYR:CE1	2.85	0.43
1:AA:865:A:H2'	1:AA:866:C:C6	2.53	0.43
1:AA:875:C:C2'	8:AH:11:ASN:HD21	2.26	0.43
1:AA:962:C:H2'	1:AA:963:G:O4'	2.18	0.43
1:AA:985:C:C2	17:AS:97:TYR:HE1	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1322:C:OP1	17:AS:122:THR:HB	2.18	0.43
2:AT:465:LYS:CE	2:AT:511:LEU:HG	2.24	0.43
3:AB:50:GLY:O	3:AB:54:GLU:HG3	2.18	0.43
4:AC:28:LEU:N	4:AC:28:LEU:HD22	2.33	0.43
9:AI:7:GLN:HG2	9:AI:8:THR:N	2.33	0.43
9:AI:18:VAL:HG22	9:AI:67:ARG:CB	2.41	0.43
12:AL:93:LEU:H	12:AL:93:LEU:CD2	2.29	0.43
12:AL:117:ILE:HD12	12:AL:120:VAL:HG11	1.99	0.43
13:AM:68:ARG:HB3	13:AM:68:ARG:HH11	1.82	0.43
13:AM:129:TRP:HH2	17:AS:121:ILE:HD13	1.57	0.43
14:AN:27:THR:CG2	14:AN:38:CYS:SG	3.06	0.43
16:AQ:77:THR:HA	16:AQ:83:ILE:HD12	2.00	0.43
18:B3:675:U:C2'	23:BD:235:LEU:HD23	2.41	0.43
18:B3:737:A:O2'	18:B3:738:G:H5'	2.18	0.43
18:B3:771:G:OP1	31:BL:76:LYS:HD3	2.16	0.43
18:B3:820:G:C6	21:BB:181:ALA:HB3	2.51	0.43
18:B3:858:U:H2'	18:B3:859:C:C6	2.53	0.43
18:B3:898:G:H1	41:BV:42:ILE:HG12	1.81	0.43
18:B3:1054:G:N7	28:BI:110:ARG:CD	2.78	0.43
18:B3:1132:A:H61	18:B3:2500:C:H1'	1.82	0.43
18:B3:1183:C:H1'	30:BK:104:ILE:HA	1.98	0.43
18:B3:1344:G:C8	23:BD:188:ALA:O	2.71	0.43
18:B3:1352:A:OP2	23:BD:108:TRP:CD1	2.62	0.43
18:B3:1594:C:O2'	18:B3:1595:G:H5'	2.19	0.43
18:B3:1768:C:H2'	18:B3:1769:C:O4'	2.18	0.43
18:B3:1815:A:H5"	18:B3:2750:G:H2'	1.32	0.43
18:B3:1874:U:C5'	21:BB:127:ARG:HG2	2.46	0.43
18:B3:2049:C:OP1	33:BN:81:ARG:CB	2.66	0.43
18:B3:2157:G:O3'	18:B3:2158:A:O4'	2.36	0.43
18:B3:2333:G:C2'	29:BJ:114:LYS:CG	2.84	0.43
18:B3:2511:A:H5'	18:B3:2511:A:C8	2.53	0.43
18:B3:2736:U:H2'	35:BP:61:ARG:HG2	1.77	0.43
18:B3:2820:A:C4'	22:BC:89:VAL:HA	2.48	0.43
18:B3:2846:C:C4'	22:BC:174:LYS:CE	2.82	0.43
18:B3:2890:A:C2'	18:B3:2891:A:OP2	2.65	0.43
20:BA:54:LYS:HG3	20:BA:156:LYS:CD	2.40	0.43
20:BA:60:ARG:HD3	20:BA:61:PRO:CG	2.47	0.43
20:BA:68:PHE:CE2	20:BA:116:LEU:CD1	2.95	0.43
21:BB:61:VAL:CG2	21:BB:62:PHE:CD1	2.94	0.43
21:BB:122:ARG:HE	21:BB:123:GLY:N	2.14	0.43
22:BC:201:THR:CG2	22:BC:202:VAL:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:125:ILE:CD1	23:BD:255:THR:CG2	2.95	0.43
23:BD:149:LEU:CD2	23:BD:248:ILE:HB	2.36	0.43
24:BE:34:LYS:HG3	36:BQ:27:LEU:HD11	1.21	0.43
24:BE:88:ILE:CG1	24:BE:89:THR:N	2.81	0.43
24:BE:88:ILE:CG2	24:BE:219:PHE:CE2	2.93	0.43
25:BF:180:ILE:CD1	25:BF:181:ASP:N	2.81	0.43
25:BF:206:LEU:CD1	25:BF:242:MET:CB	2.94	0.43
26:BG:159:ILE:HG22	26:BG:161:LEU:CB	2.47	0.43
27:BH:20:ILE:CD1	27:BH:25:VAL:CA	2.95	0.43
27:BH:63:LYS:NZ	32:BM:130:PRO:HB3	2.10	0.43
28:BI:94:PHE:O	28:BI:94:PHE:CG	2.68	0.43
29:BJ:52:THR:HA	29:BJ:58:ILE:HG22	2.01	0.43
31:BL:29:TYR:CE1	31:BL:62:ARG:CD	3.02	0.43
31:BL:156:LYS:CG	31:BL:157:HIS:N	2.81	0.43
32:BM:2:VAL:CG1	32:BM:32:ILE:CD1	2.96	0.43
32:BM:51:LEU:O	32:BM:52:LYS:HG2	2.18	0.43
32:BM:79:PHE:CD2	32:BM:79:PHE:O	2.71	0.43
33:BN:25:PHE:CE1	33:BN:143:SER:HB2	2.53	0.43
33:BN:127:ARG:H	33:BN:138:TYR:N	1.89	0.43
34:BO:59:ARG:HD2	34:BO:60:PRO:CD	2.48	0.43
35:BP:19:ARG:CZ	35:BP:20:LYS:HG2	2.49	0.43
37:BR:85:TRP:CE3	37:BR:86:ARG:CD	2.94	0.43
40:BU:37:LYS:HD2	40:BU:37:LYS:C	2.37	0.43
41:BV:125:LYS:HA	41:BV:145:GLU:HB3	1.94	0.43
42:B0:16:LYS:HB2	42:B0:18:LYS:HE2	1.99	0.43
43:BW:48:VAL:HG12	43:BW:50:LEU:HD23	2.00	0.43
44:BX:54:VAL:CG1	44:BX:55:LEU:N	2.81	0.43
45:BY:25:SER:HB2	45:BY:33:CYS:O	2.19	0.43
1:AA:65:U:C2'	1:AA:383:A:N1	2.81	0.43
1:AA:157:G:O2'	1:AA:158:G:H5'	2.18	0.43
1:AA:294:U:H5"	1:AA:610:G:O2'	2.17	0.43
1:AA:363:A:O3'	12:AL:50:LYS:CB	2.63	0.43
1:AA:529:G:C6	12:AL:69:ARG:NH2	2.86	0.43
1:AA:616:G:H5'	5:AD:149:ARG:HH21	1.82	0.43
1:AA:652:U:H2'	1:AA:752:G:N1	2.32	0.43
1:AA:860:A:H4'	8:AH:18:LYS:HZ2	1.84	0.43
1:AA:920:U:H5"	1:AA:1080:A:C5	2.49	0.43
1:AA:1068:G:C5'	1:AA:1388:C:C5'	2.96	0.43
1:AA:1075:C:OP1	3:AB:103:PRO:N	2.51	0.43
1:AA:1129:C:H4'	1:AA:1130:A:H5'	2.01	0.43
1:AA:1238:A:OP1	1:AA:1336:C:H5	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1291:G:C8	9:AI:41:GLU:OE2	2.71	0.43
1:AA:1302:U:O5'	13:AM:54:LEU:HG	2.15	0.43
1:AA:1304:G:O6	13:AM:40:ARG:CG	2.65	0.43
2:AT:292:LYS:HD3	2:AT:295:GLU:CD	2.39	0.43
2:AT:462:PHE:C	2:AT:513:LYS:NZ	2.71	0.43
2:AT:744:TYR:CE2	18:B3:1171:A:H2	2.24	0.43
5:AD:171:ARG:HG2	5:AD:172:VAL:H	1.83	0.43
8:AH:16:ALA:HB1	8:AH:24:VAL:CG2	2.49	0.43
9:AI:101:LYS:C	9:AI:105:LYS:CB	2.81	0.43
11:AK:47:VAL:HG12	11:AK:52:ASP:CB	2.49	0.43
13:AM:68:ARG:HB3	13:AM:68:ARG:NH1	2.32	0.43
13:AM:100:THR:O	13:AM:105:VAL:HG21	2.19	0.43
18:B3:28:G:C5	18:B3:1318:A:H2	1.82	0.43
18:B3:751:U:H5"	23:BD:36:THR:CG2	2.46	0.43
18:B3:956:G:H2'	18:B3:957:A:O4'	2.17	0.43
18:B3:1349:G:H4'	23:BD:42:ASN:N	2.34	0.43
18:B3:1398:G:OP1	35:BP:22:TRP:C	2.57	0.43
18:B3:1774:G:H1'	47:B9:15:VAL:HG22	2.00	0.43
18:B3:1823:G:O2'	18:B3:1824:C:H5'	2.18	0.43
18:B3:1887:U:H2'	18:B3:1888:C:H6	1.83	0.43
18:B3:1899:C:H1'	21:BB:223:THR:HG1	1.78	0.43
18:B3:1902:G:H2'	18:B3:1903:U:O4'	2.18	0.43
18:B3:2093:G:H1	22:BC:257:ALA:HB1	1.84	0.43
18:B3:2330:U:H4'	18:B3:2331:C:OP1	2.19	0.43
18:B3:2347:C:C5	29:BJ:66:VAL:CG2	3.01	0.43
18:B3:2822:C:H4'	22:BC:133:SER:OG	2.18	0.43
21:BB:110:THR:HG23	21:BB:110:THR:O	2.19	0.43
21:BB:157:ILE:CD1	21:BB:161:ALA:CB	2.97	0.43
21:BB:187:LYS:HZ3	21:BB:187:LYS:CA	2.22	0.43
21:BB:236:LEU:HD22	21:BB:242:THR:OG1	2.18	0.43
22:BC:17:PRO:HG2	22:BC:19:LYS:CD	2.48	0.43
22:BC:52:MET:CB	22:BC:76:THR:CA	2.92	0.43
22:BC:143:ILE:CG2	22:BC:147:LEU:CD1	2.95	0.43
22:BC:146:GLU:CG	22:BC:147:LEU:HD12	2.28	0.43
22:BC:156:VAL:HG11	22:BC:181:GLN:HE22	1.83	0.43
23:BD:4:GLN:HG2	23:BD:19:LEU:HD13	2.00	0.43
23:BD:133:LEU:CD2	23:BD:243:LEU:HB2	2.48	0.43
23:BD:180:VAL:CG1	23:BD:181:LEU:N	2.81	0.43
24:BE:22:ARG:HH12	24:BE:24:ARG:NH2	2.15	0.43
24:BE:111:GLN:CA	24:BE:115:LEU:HB2	2.49	0.43
24:BE:184:ASP:N	24:BE:187:THR:CG2	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:146:LEU:HG	25:BF:149:LYS:CE	2.45	0.43
26:BG:115:VAL:HG23	26:BG:214:VAL:HG13	1.99	0.43
28:BI:15:LYS:CB	28:BI:16:PRO:CD	2.96	0.43
29:BJ:44:PRO:CB	29:BJ:67:HIS:HB2	2.46	0.43
29:BJ:59:ARG:CZ	29:BJ:59:ARG:CB	2.95	0.43
30:BK:84:ALA:CB	30:BK:104:ILE:CD1	2.94	0.43
31:BL:48:ARG:NH2	31:BL:52:TYR:CE1	2.86	0.43
32:BM:17:ARG:CB	32:BM:121:GLN:HE21	2.31	0.43
32:BM:17:ARG:O	32:BM:21:VAL:HG23	2.19	0.43
33:BN:25:PHE:HE2	33:BN:118:VAL:HG23	1.82	0.43
33:BN:85:LYS:N	33:BN:85:LYS:CE	2.82	0.43
34:BO:114:ILE:CG2	34:BO:121:CYS:SG	3.07	0.43
36:BQ:39:ILE:CG1	36:BQ:99:SER:CB	2.94	0.43
38:BS:49:ILE:O	38:BS:49:ILE:HG12	2.17	0.43
39:BT:66:ILE:HD13	39:BT:66:ILE:C	2.37	0.43
39:BT:96:LYS:HA	39:BT:96:LYS:CE	2.38	0.43
40:BU:28:ARG:CG	40:BU:29:VAL:N	2.81	0.43
40:BU:46:LYS:NZ	40:BU:47:ALA:HB3	2.32	0.43
40:BU:101:PRO:HA	40:BU:104:LEU:CD2	2.39	0.43
41:BV:86:ARG:HG2	41:BV:87:ASP:H	1.80	0.43
42:B0:19:ARG:CG	42:B0:33:ARG:H	2.16	0.43
46:BZ:37:GLN:HA	46:BZ:40:ARG:CD	2.48	0.43
47:B9:30:ILE:CG2	47:B9:31:GLN:N	2.81	0.43
47:B9:55:THR:CG2	47:B9:63:VAL:N	2.81	0.43
47:B9:56:CYS:HB3	47:B9:59:CYS:O	2.18	0.43
1:AA:129:U:H4'	16:AQ:127:CYS:N	2.32	0.43
1:AA:959:A:C5	17:AS:100:LYS:HB3	2.52	0.43
1:AA:998:G:O2'	1:AA:999:C:H5'	2.17	0.43
1:AA:1180:A:OP1	9:AI:111:TYR:CD1	2.72	0.43
1:AA:1220:G:P	17:AS:80:MET:HE2	2.59	0.43
1:AA:1226:C:P	13:AM:131:LEU:HD21	2.59	0.43
1:AA:1279:A:O2'	1:AA:1281:U:OP2	2.34	0.43
1:AA:1302:U:C5	13:AM:52:VAL:O	2.71	0.43
3:AB:22:HIS:NE2	3:AB:172:ILE:CD1	2.81	0.43
3:AB:24:GLY:HA3	3:AB:45:HIS:O	2.19	0.43
4:AC:105:LYS:HB3	4:AC:174:VAL:HG23	1.97	0.43
7:AG:88:ILE:HG13	7:AG:90:GLU:HG2	2.01	0.43
8:AH:92:LEU:HD12	8:AH:92:LEU:H	1.83	0.43
9:AI:81:ARG:CD	9:AI:115:LEU:CD2	2.95	0.43
10:AJ:26:LEU:HD22	10:AJ:38:SER:CB	2.48	0.43
11:AK:15:VAL:CG1	11:AK:16:ALA:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:56:PRO:HD3	11:AK:88:THR:HB	2.00	0.43
12:AL:59:ILE:HD12	12:AL:117:ILE:HB	2.01	0.43
13:AM:120:ARG:HD2	13:AM:120:ARG:N	2.33	0.43
14:AN:36:ASN:HB3	14:AN:41:CYS:HB2	2.01	0.43
18:B3:170:U:H4'	31:BL:82:LYS:HD3	1.99	0.43
18:B3:283:U:H5	18:B3:284:C:H41	1.66	0.43
18:B3:383:A:H2'	18:B3:384:G:O4'	2.18	0.43
18:B3:485:A:H1'	18:B3:486:A:H5'	2.00	0.43
18:B3:502:A:H5'	33:BN:14:ALA:HA	1.99	0.43
18:B3:905:C:O2	18:B3:1330:A:N7	2.46	0.43
18:B3:1060:C:H2'	18:B3:1061:C:C6	2.52	0.43
18:B3:1085:C:H5"	25:BF:89:LYS:HZ3	1.78	0.43
18:B3:1116:U:OP2	18:B3:1139:U:O2	2.36	0.43
18:B3:1304:U:H4'	23:BD:193:TYR:CE2	2.54	0.43
18:B3:1446:U:OP1	39:BT:69:GLU:OE1	2.37	0.43
18:B3:1495:C:H2'	18:B3:1496:G:H8	1.83	0.43
18:B3:1705:C:C3'	35:BP:62:THR:HB	2.25	0.43
18:B3:1733:A:C5'	22:BC:225:PHE:O	2.66	0.43
18:B3:1882:C:O2'	18:B3:2012:U:OP2	2.33	0.43
18:B3:2050:G:N7	33:BN:82:TRP:HZ3	1.99	0.43
18:B3:2133:U:H5"	18:B3:2134:G:H5'	1.97	0.43
18:B3:2164:G:N3	20:BA:35:GLN:OE1	2.52	0.43
18:B3:2214:A:O4'	20:BA:103:LEU:HD12	2.18	0.43
18:B3:2283:G:C6	28:BI:106:ALA:N	2.85	0.43
18:B3:2338:G:C5'	29:BJ:126:PHE:HB2	2.47	0.43
18:B3:2407:G:O2'	18:B3:2408:A:H5'	2.18	0.43
18:B3:2619:U:H2'	18:B3:2620:U:C6	2.53	0.43
19:B4:11:A:O5'	24:BE:17:GLN:HA	2.18	0.43
20:BA:148:VAL:O	20:BA:151:VAL:HG22	2.18	0.43
21:BB:2:ARG:CG	21:BB:206:VAL:CG2	2.95	0.43
21:BB:37:HIS:CB	21:BB:39:TYR:CD2	3.01	0.43
21:BB:111:ILE:CG2	21:BB:167:VAL:H	2.31	0.43
21:BB:170:GLY:HA2	47:B9:67:ALA:H	1.84	0.43
21:BB:224:ILE:CD1	21:BB:225:SER:N	2.81	0.43
22:BC:18:ARG:NH1	22:BC:19:LYS:H	2.16	0.43
22:BC:52:MET:CG	22:BC:53:THR:H	2.30	0.43
22:BC:57:ARG:CZ	22:BC:282:TYR:CE1	3.02	0.43
22:BC:274:ARG:N	22:BC:274:ARG:CD	2.82	0.43
22:BC:362:SER:N	38:BS:14:TYR:OH	2.50	0.43
23:BD:76:VAL:HG12	23:BD:77:GLY:N	2.33	0.43
23:BD:174:HIS:CA	23:BD:177:LEU:HD13	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:227:ALA:HB1	23:BD:232:LEU:HD13	1.99	0.43
24:BE:64:ILE:O	24:BE:75:LEU:HD23	2.19	0.43
24:BE:83:LEU:N	24:BE:83:LEU:CD2	2.82	0.43
24:BE:110:LEU:HD12	24:BE:110:LEU:N	2.33	0.43
24:BE:204:VAL:CG1	24:BE:205:SER:N	2.81	0.43
25:BF:162:LEU:O	25:BF:162:LEU:HD22	2.18	0.43
25:BF:177:ILE:CD1	25:BF:178:LEU:N	2.82	0.43
26:BG:134:GLY:C	26:BG:197:ALA:HB1	2.39	0.43
26:BG:149:LEU:HD12	26:BG:214:VAL:CG1	2.48	0.43
27:BH:99:ILE:HG12	27:BH:100:ASN:N	2.33	0.43
27:BH:167:VAL:CG2	27:BH:170:LYS:CE	2.96	0.43
29:BJ:16:LEU:CD2	29:BJ:75:ALA:CB	2.94	0.43
29:BJ:42:GLN:NE2	29:BJ:42:GLN:HA	2.34	0.43
29:BJ:132:ARG:HB2	29:BJ:133:PRO:CA	2.49	0.43
31:BL:29:TYR:O	31:BL:32:LYS:HB3	2.18	0.43
31:BL:65:VAL:HG22	31:BL:127:LYS:O	2.18	0.43
31:BL:66:ARG:HA	31:BL:126:TYR:CE2	2.52	0.43
31:BL:75:PRO:HB3	31:BL:76:LYS:NZ	2.32	0.43
31:BL:173:ILE:O	31:BL:174:ASN:HB3	2.18	0.43
32:BM:8:ILE:HG13	32:BM:34:VAL:HA	2.01	0.43
32:BM:61:THR:O	32:BM:62:ALA:HB3	2.18	0.43
32:BM:91:THR:CG2	32:BM:95:LYS:HZ2	2.25	0.43
33:BN:39:GLU:HA	33:BN:112:TYR:CD1	2.53	0.43
34:BO:81:VAL:HG12	34:BO:138:LEU:CD1	2.47	0.43
34:BO:82:VAL:CG2	34:BO:124:LEU:HD13	2.49	0.43
35:BP:19:ARG:NH1	35:BP:20:LYS:HB3	2.34	0.43
35:BP:22:TRP:CD1	35:BP:22:TRP:C	2.87	0.43
35:BP:90:SER:O	35:BP:91:GLN:HB2	2.18	0.43
36:BQ:34:TYR:OH	36:BQ:93:VAL:HA	2.19	0.43
37:BR:27:ASP:OD2	37:BR:115:THR:HB	2.18	0.43
37:BR:77:ILE:CG2	37:BR:126:TRP:CZ3	3.01	0.43
37:BR:81:GLN:HE21	37:BR:81:GLN:CA	2.20	0.43
40:BU:67:GLU:CD	40:BU:82:VAL:HG13	2.38	0.43
40:BU:115:ARG:NH1	40:BU:118:LEU:HB3	2.34	0.43
41:BV:73:ASN:HB3	41:BV:75:ASP:OD2	2.18	0.43
42:B0:72:LYS:CD	42:B0:90:LYS:CE	2.96	0.43
43:BW:6:VAL:HG23	43:BW:6:VAL:O	2.18	0.43
43:BW:16:HIS:CB	43:BW:30:ARG:CZ	2.95	0.43
43:BW:66:VAL:CG1	43:BW:67:GLU:N	2.81	0.43
44:BX:21:LEU:O	44:BX:21:LEU:HG	2.18	0.43
44:BX:29:ALA:O	44:BX:32:LYS:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:16:THR:CG2	45:BY:17:LEU:N	2.81	0.43
1:AA:6:G:H5"	1:AA:299:G:OP1	2.18	0.43
1:AA:405:U:H5"	5:AD:37:LYS:NZ	2.33	0.43
1:AA:551:U:O2	12:AL:48:HIS:ND1	2.51	0.43
1:AA:677:U:O2	1:AA:777:A:O2'	2.32	0.43
1:AA:913:A:O2'	1:AA:914:A:OP2	2.36	0.43
1:AA:950:U:H2'	1:AA:951:G:C8	2.54	0.43
1:AA:990:C:OP2	1:AA:1016:A:C6	2.71	0.43
1:AA:1162:C:H2'	1:AA:1163:C:C6	2.54	0.43
1:AA:1266:G:N2	1:AA:1269:A:OP2	2.49	0.43
1:AA:1329:A:C8	13:AM:97:ASP:OD1	2.72	0.43
2:AT:419:VAL:HG13	2:AT:420:PRO:HD2	2.01	0.43
6:AE:168:LEU:HB2	8:AH:97:GLN:HG2	1.99	0.43
9:AI:96:VAL:HG12	9:AI:101:LYS:H	1.83	0.43
15:AO:90:LEU:CD2	15:AO:121:ILE:HG12	2.49	0.43
18:B3:70:A:H4'	18:B3:71:G:O5'	2.18	0.43
18:B3:78:G:HO2'	40:BU:25:SER:C	2.22	0.43
18:B3:81:G:O2'	40:BU:75:ARG:HD2	2.19	0.43
18:B3:282:C:H3'	18:B3:283:U:H5'	1.99	0.43
18:B3:790:A:H1'	18:B3:1710:A:H2'	1.99	0.43
18:B3:907:A:H5'	18:B3:1328:A:C3'	2.46	0.43
18:B3:1347:U:O2	23:BD:240:GLY:HA3	2.18	0.43
18:B3:1730:G:H2'	18:B3:1730:G:N3	2.34	0.43
18:B3:1796:A:N6	35:BP:96:ARG:HH11	2.17	0.43
18:B3:1845:A:P	21:BB:199:ARG:NH1	2.86	0.43
18:B3:1871:U:H5"	21:BB:17:SER:CB	2.49	0.43
18:B3:2312:G:C4'	28:BI:22:TYR:HD1	2.31	0.43
18:B3:2737:C:OP2	35:BP:62:THR:CG2	2.53	0.43
19:B4:13:A:O3'	24:BE:20:PHE:HZ	2.01	0.43
19:B4:34:A:H2	24:BE:185:PHE:HA	1.81	0.43
19:B4:37:C:N1	24:BE:156:GLY:N	2.66	0.43
19:B4:86:G:H5"	25:BF:218:LYS:HG3	1.97	0.43
20:BA:30:GLU:HG2	20:BA:210:MET:H	1.82	0.43
20:BA:49:PHE:CE1	20:BA:157:PHE:HB3	2.53	0.43
20:BA:151:VAL:O	20:BA:158:GLN:HG2	2.19	0.43
21:BB:8:ARG:CZ	21:BB:9:LYS:N	2.81	0.43
21:BB:9:LYS:HA	21:BB:15:PHE:CD1	2.44	0.43
21:BB:9:LYS:CA	21:BB:15:PHE:CE1	3.01	0.43
22:BC:46:LEU:HD21	22:BC:336:THR:HB	2.01	0.43
22:BC:49:LYS:HA	22:BC:78:VAL:HG22	2.01	0.43
22:BC:57:ARG:NE	22:BC:282:TYR:CE1	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:118:TYR:CD2	22:BC:133:SER:N	2.82	0.43
22:BC:163:THR:OG1	22:BC:177:LEU:HD21	2.18	0.43
22:BC:260:MET:HE3	32:BM:66:THR:CG2	2.45	0.43
23:BD:160:LYS:C	23:BD:217:ALA:HB1	2.38	0.43
23:BD:177:LEU:C	23:BD:180:VAL:HG23	2.39	0.43
23:BD:205:LEU:HD23	23:BD:221:VAL:HG11	2.00	0.43
24:BE:204:VAL:O	24:BE:207:TYR:CD2	2.71	0.43
25:BF:86:VAL:HG23	25:BF:112:SER:O	2.18	0.43
25:BF:89:LYS:CD	25:BF:218:LYS:HE3	2.49	0.43
25:BF:122:THR:C	25:BF:124:GLU:H	2.21	0.43
26:BG:142:ILE:HD12	26:BG:143:GLU:CA	2.48	0.43
26:BG:152:ILE:CD1	26:BG:162:VAL:HB	2.49	0.43
27:BH:52:LEU:CG	27:BH:53:ILE:H	2.31	0.43
27:BH:104:VAL:HG12	27:BH:111:PHE:HA	1.98	0.43
28:BI:110:ARG:C	28:BI:111:LEU:HD12	2.23	0.43
29:BJ:109:ILE:CG2	29:BJ:110:ASP:N	2.82	0.43
29:BJ:134:GLY:O	29:BJ:136:ARG:HD3	2.18	0.43
29:BJ:155:LYS:HD2	29:BJ:156:GLU:H	1.84	0.43
31:BL:13:LYS:HE2	31:BL:22:GLN:HB2	2.00	0.43
31:BL:50:LEU:N	31:BL:50:LEU:CD1	2.81	0.43
31:BL:65:VAL:C	31:BL:126:TYR:CE2	2.92	0.43
33:BN:66:ILE:CB	33:BN:79:LYS:CD	2.95	0.43
34:BO:52:LEU:CD2	34:BO:84:VAL:CG2	2.96	0.43
34:BO:75:GLY:N	34:BO:138:LEU:CD2	2.82	0.43
34:BO:79:LYS:CG	34:BO:138:LEU:HD11	2.46	0.43
34:BO:112:ALA:HA	34:BO:115:VAL:CG2	2.39	0.43
34:BO:138:LEU:N	34:BO:138:LEU:CD1	2.82	0.43
35:BP:137:LEU:O	35:BP:137:LEU:HD23	2.18	0.43
36:BQ:43:LYS:N	36:BQ:95:HIS:CD2	2.86	0.43
37:BR:9:THR:HG21	37:BR:11:PHE:O	2.18	0.43
37:BR:32:ARG:CD	37:BR:32:ARG:N	2.81	0.43
37:BR:74:MET:HG2	37:BR:75:PRO:CA	2.48	0.43
40:BU:27:ARG:NE	40:BU:28:ARG:H	2.16	0.43
40:BU:109:LEU:HD22	40:BU:111:LEU:HD12	2.01	0.43
40:BU:120:GLN:O	40:BU:121:ARG:HG2	2.18	0.43
41:BV:26:LYS:N	41:BV:26:LYS:HZ3	2.16	0.43
41:BV:135:GLU:HB3	41:BV:136:LYS:HD2	1.99	0.43
42:B0:32:TRP:CE3	42:B0:33:ARG:CA	3.01	0.43
43:BW:52:PRO:HB3	43:BW:55:ASN:HD21	1.84	0.43
44:BX:49:LYS:HZ2	44:BX:50:SER:HA	1.84	0.43
46:BZ:34:LEU:N	46:BZ:34:LEU:CD1	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:B9:23:ARG:HB3	47:B9:27:LYS:CG	2.30	0.43
1:AA:6:G:C5	6:AE:196:TYR:CD2	3.06	0.43
1:AA:27:G:H21	1:AA:296:U:H4'	1.83	0.43
1:AA:70:G:H2'	1:AA:73:C:C6	2.53	0.43
1:AA:363:A:C6	12:AL:43:PHE:O	2.72	0.43
1:AA:546:G:C5'	1:AA:549:C:C5'	2.64	0.43
1:AA:618:C:N3	1:AA:622:A:N6	2.66	0.43
1:AA:866:C:H2'	1:AA:867:G:O4'	2.18	0.43
1:AA:882:C:O2'	1:AA:883:C:H5'	2.18	0.43
1:AA:920:U:O2'	1:AA:1080:A:C2'	2.65	0.43
1:AA:1067:A:H5'	1:AA:1387:G:H4'	1.94	0.43
1:AA:1309:G:C8	13:AM:92:ILE:HG21	1.43	0.43
1:AA:1311:G:H2'	1:AA:1312:G:O4'	2.19	0.43
3:AB:107:THR:CG2	3:AB:108:ASN:N	2.82	0.43
4:AC:20:LEU:CD2	4:AC:76:PHE:CE1	3.01	0.43
5:AD:93:LEU:O	5:AD:96:VAL:HG12	2.19	0.43
6:AE:169:ILE:HG21	6:AE:196:TYR:HB3	1.92	0.43
7:AG:84:ALA:HB1	7:AG:89:ILE:C	2.39	0.43
7:AG:96:LEU:HD12	7:AG:171:ILE:HG23	1.99	0.43
7:AG:112:ILE:HD11	7:AG:189:ILE:CB	2.47	0.43
7:AG:148:VAL:HG22	7:AG:149:GLY:N	2.33	0.43
8:AH:100:TYR:CE2	8:AH:128:VAL:CG1	3.02	0.43
9:AI:91:TYR:CE2	9:AI:92:HIS:HD2	2.36	0.43
10:AJ:62:VAL:HG22	10:AJ:85:ARG:HE	1.84	0.43
10:AJ:71:PRO:HA	14:AN:30:VAL:N	2.19	0.43
12:AL:62:LYS:CG	12:AL:63:GLN:N	2.81	0.43
17:AS:89:MET:CB	17:AS:107:ILE:CD1	2.93	0.43
18:B3:95:A:H5'	18:B3:96:A:H3'	1.99	0.43
18:B3:449:A:OP1	23:BD:45:LYS:CG	2.66	0.43
18:B3:473:A:H5"	45:BY:48:TRP:CE2	2.51	0.43
18:B3:653:C:H2'	18:B3:654:A:C8	2.54	0.43
18:B3:657:G:H4'	23:BD:119:TYR:CE2	2.54	0.43
18:B3:706:G:C6	34:BO:72:LYS:NZ	2.72	0.43
18:B3:750:A:C4'	23:BD:113:ASN:H	2.29	0.43
18:B3:1308:A:H62	23:BD:201:ARG:NH1	2.07	0.43
18:B3:1313:A:OP1	42:B0:105:ARG:HD3	2.19	0.43
18:B3:1335:C:OP2	42:B0:100:ILE:HG23	2.13	0.43
18:B3:1335:C:H5"	42:B0:96:ILE:HG23	2.01	0.43
18:B3:1496:G:H2'	18:B3:1497:G:H8	1.83	0.43
18:B3:1517:U:O2'	18:B3:1518:A:H5'	2.18	0.43
18:B3:1689:A:N6	33:BN:134:ARG:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1787:C:C2	18:B3:2883:A:C1'	2.96	0.43
18:B3:1791:U:H2'	18:B3:1792:C:C6	2.54	0.43
18:B3:1850:U:H2'	18:B3:1851:G:C8	2.54	0.43
18:B3:1900:A:OP1	21:BB:226:ARG:N	2.48	0.43
18:B3:2025:G:O2'	18:B3:2026:C:H5'	2.19	0.43
18:B3:2052:U:P	33:BN:24:SER:N	2.90	0.43
18:B3:2205:G:O6	18:B3:2206:C:C4	2.72	0.43
18:B3:2828:G:O3'	22:BC:130:THR:CG2	2.63	0.43
18:B3:2913:A:C2	22:BC:125:LYS:C	2.87	0.43
19:B4:11:A:C6	24:BE:12:TYR:HB3	2.53	0.43
20:BA:68:PHE:CZ	20:BA:90:LEU:HB2	2.53	0.43
20:BA:70:ASP:CA	20:BA:74:VAL:HG23	2.47	0.43
20:BA:85:MET:SD	20:BA:93:LEU:CD1	3.07	0.43
21:BB:81:VAL:N	47:B9:64:ALA:HB3	2.34	0.43
21:BB:171:GLY:N	47:B9:67:ALA:H	2.10	0.43
21:BB:199:ARG:N	21:BB:199:ARG:CD	2.82	0.43
22:BC:46:LEU:CG	22:BC:47:GLY:N	2.82	0.43
22:BC:92:VAL:HG12	22:BC:93:GLU:HB2	2.01	0.43
22:BC:105:TRP:O	22:BC:198:PHE:CZ	2.71	0.43
22:BC:188:SER:HA	22:BC:191:VAL:CG2	2.48	0.43
23:BD:75:ARG:CG	23:BD:81:THR:N	2.82	0.43
23:BD:109:ASN:HB3	23:BD:110:VAL:H	1.54	0.43
23:BD:221:VAL:CG1	23:BD:224:VAL:N	2.82	0.43
24:BE:90:HIS:HE1	24:BE:214:ASP:OD1	2.01	0.43
24:BE:112:ARG:CG	24:BE:113:LEU:N	2.81	0.43
25:BF:207:SER:CB	25:BF:242:MET:SD	3.07	0.43
26:BG:189:VAL:CG1	26:BG:191:GLN:CG	2.95	0.43
28:BI:42:THR:HG22	28:BI:44:ASP:CB	2.49	0.43
28:BI:116:ARG:HD2	28:BI:117:GLY:HA2	1.99	0.43
29:BJ:162:PHE:CD1	29:BJ:166:TYR:CE2	2.96	0.43
31:BL:53:LYS:HE2	31:BL:58:PHE:CD2	2.51	0.43
31:BL:65:VAL:O	31:BL:126:TYR:CE2	2.72	0.43
31:BL:187:ARG:HH12	31:BL:191:LYS:HB3	1.83	0.43
32:BM:15:VAL:CG2	32:BM:16:GLY:N	2.81	0.43
33:BN:47:LEU:HB3	33:BN:87:VAL:CG1	2.48	0.43
33:BN:68:ARG:O	33:BN:68:ARG:HG3	2.19	0.43
33:BN:88:LYS:HE3	33:BN:89:PHE:HB2	1.99	0.43
33:BN:98:ALA:HA	33:BN:108:ALA:CB	2.45	0.43
34:BO:79:LYS:HD3	34:BO:79:LYS:H	1.80	0.43
34:BO:89:ASP:CG	34:BO:109:GLY:HA3	2.39	0.43
35:BP:36:SER:O	35:BP:39:ALA:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BQ:72:VAL:CG1	36:BQ:74:VAL:HG23	2.42	0.43
36:BQ:75:ILE:HG23	36:BQ:76:ILE:C	2.39	0.43
37:BR:123:ALA:HA	37:BR:130:ALA:CB	2.48	0.43
38:BS:9:SER:HA	38:BS:52:THR:HG23	2.01	0.43
41:BV:35:GLY:CA	41:BV:39:HIS:HE1	2.31	0.43
41:BV:68:TRP:HD1	41:BV:68:TRP:H	1.66	0.43
41:BV:88:GLN:HE21	41:BV:88:GLN:HB3	1.63	0.43
41:BV:95:LYS:CG	41:BV:96:GLU:H	2.31	0.43
42:B0:121:ASN:HA	42:B0:122:PRO:HA	1.67	0.43
43:BW:61:ARG:CD	43:BW:65:GLY:CA	2.93	0.43
46:BZ:67:VAL:CG1	46:BZ:68:VAL:N	2.82	0.43
46:BZ:81:GLN:CD	46:BZ:81:GLN:H	2.21	0.43
1:AA:105:G:H2'	1:AA:379:C:H4'	2.01	0.43
1:AA:292:G:C2'	1:AA:608:A:C5	2.87	0.43
1:AA:318:G:HO2'	1:AA:1468:A:C4'	2.31	0.43
1:AA:336:C:H2'	1:AA:1468:A:H2	1.48	0.43
1:AA:532:A:H2'	1:AA:533:A:C5'	2.48	0.43
1:AA:678:U:O2'	11:AK:125:THR:HG21	2.15	0.43
1:AA:782:A:H2'	1:AA:783:C:O4'	2.18	0.43
1:AA:975:A:O5'	1:AA:976:G:H5'	2.19	0.43
1:AA:1049:U:H4'	1:AA:1050:G:OP2	2.17	0.43
1:AA:1297:C:P	13:AM:56:LYS:HB2	2.58	0.43
1:AA:1481:U:H2'	1:AA:1482:G:O4'	2.18	0.43
1:AA:1490:C:O2'	1:AA:1491:G:H5'	2.19	0.43
2:AT:740:VAL:HG12	2:AT:744:TYR:CE2	2.53	0.43
2:AT:745:SER:HA	18:B3:2508:C:N3	2.33	0.43
3:AB:55:LYS:HE3	3:AB:55:LYS:CA	2.37	0.43
3:AB:66:ILE:HG23	3:AB:70:GLU:HB3	1.93	0.43
3:AB:88:PHE:CZ	3:AB:170:GLY:HA2	2.53	0.43
5:AD:69:ARG:CZ	5:AD:76:LEU:HD21	2.49	0.43
5:AD:86:LEU:HD12	5:AD:96:VAL:CB	2.49	0.43
6:AE:153:LEU:CD1	8:AH:98:PHE:CD1	3.01	0.43
6:AE:153:LEU:HD13	8:AH:98:PHE:CD1	2.54	0.43
6:AE:168:LEU:CD2	6:AE:197:THR:CG2	2.96	0.43
6:AE:204:ARG:CB	6:AE:207:GLU:HB2	2.49	0.43
7:AG:85:GLN:HG2	7:AG:93:THR:HB	2.00	0.43
10:AJ:41:ILE:HG22	10:AJ:52:LYS:HZ2	1.82	0.43
11:AK:101:LEU:O	11:AK:101:LEU:HG	2.19	0.43
12:AL:102:VAL:HG23	12:AL:133:LEU:HD11	2.01	0.43
12:AL:102:VAL:CG2	12:AL:103:LEU:N	2.82	0.43
18:B3:57:C:H1'	44:BX:35:LYS:HE3	1.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:166:A:C5	41:BV:28:PRO:O	2.50	0.43
18:B3:449:A:OP1	23:BD:45:LYS:HG3	2.19	0.43
18:B3:501:G:O2'	33:BN:100:ASN:ND2	2.51	0.43
18:B3:874:A:O4'	21:BB:196:PRO:CG	2.65	0.43
18:B3:920:C:H5	41:BV:38:HIS:CE1	2.37	0.43
18:B3:953:G:OP2	36:BQ:14:MET:N	2.52	0.43
18:B3:1054:G:H2'	28:BI:110:ARG:HD3	2.00	0.43
18:B3:1080:C:O2'	18:B3:1081:A:OP1	2.26	0.43
18:B3:1141:U:O2'	18:B3:1142:C:H5'	2.18	0.43
18:B3:1181:A:C2	30:BK:105:GLN:CG	2.96	0.43
18:B3:1246:A:O2'	18:B3:1247:A:H3'	2.18	0.43
18:B3:1287:A:H62	25:BF:201:LEU:CD1	2.31	0.43
18:B3:1300:G:C2	18:B3:1330:A:C6	3.06	0.43
18:B3:1805:G:C6	18:B3:2883:A:C2	3.06	0.43
18:B3:1812:G:C1'	18:B3:2732:U:H4'	2.49	0.43
18:B3:2101:A:N7	23:BD:71:ALA:HB1	2.34	0.43
18:B3:2214:A:C3'	20:BA:106:LYS:CD	2.93	0.43
18:B3:2325:C:OP1	18:B3:2417:C:O2'	2.32	0.43
18:B3:2406:U:O2'	18:B3:2407:G:H5'	2.19	0.43
18:B3:2415:A:C2'	18:B3:2416:G:H5'	2.49	0.43
18:B3:2566:A:C4'	27:BH:174:LYS:HZ1	2.32	0.43
18:B3:2708:G:O3'	37:BR:8:GLY:O	2.35	0.43
18:B3:2764:C:OP1	37:BR:13:ILE:HD13	2.18	0.43
18:B3:2872:U:H2'	18:B3:2873:C:H6	1.84	0.43
18:B3:2899:A:O2'	18:B3:2900:G:H5'	2.19	0.43
19:B4:6:C:O2	24:BE:72:ASP:CG	2.56	0.43
19:B4:35:C:H5'	19:B4:36:C:OP2	2.18	0.43
19:B4:85:A:H2'	25:BF:219:PHE:C	2.36	0.43
20:BA:60:ARG:HE	20:BA:60:ARG:HB2	1.57	0.43
21:BB:31:LEU:O	21:BB:32:ASP:HB2	2.18	0.43
22:BC:42:LEU:O	22:BC:207:VAL:HG11	2.18	0.43
22:BC:49:LYS:CD	22:BC:50:ALA:N	2.81	0.43
22:BC:104:VAL:C	22:BC:105:TRP:CE3	2.91	0.43
22:BC:204:VAL:HG21	22:BC:321:ILE:HD11	2.01	0.43
22:BC:205:ASP:CA	22:BC:208:PHE:CE1	2.95	0.43
22:BC:242:HIS:CG	22:BC:243:ARG:N	2.87	0.43
22:BC:243:ARG:HG2	22:BC:244:GLY:N	2.34	0.43
22:BC:254:TRP:CE3	22:BC:256:PRO:CD	3.02	0.43
22:BC:332:LYS:HE3	22:BC:333:ARG:CZ	2.46	0.43
24:BE:37:VAL:CG1	24:BE:38:THR:N	2.82	0.43
25:BF:162:LEU:HA	25:BF:166:ALA:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:171:ASN:H	25:BF:171:ASN:HD22	1.64	0.43
27:BH:12:VAL:H	27:BH:52:LEU:HB2	1.83	0.43
27:BH:33:THR:C	27:BH:34:LEU:HD22	2.39	0.43
29:BJ:98:THR:HG23	29:BJ:99:GLY:N	2.33	0.43
29:BJ:126:PHE:CD1	29:BJ:128:VAL:HG23	2.53	0.43
30:BK:108:GLU:HA	30:BK:111:GLU:HG2	2.00	0.43
31:BL:119:TRP:O	31:BL:119:TRP:CE3	2.70	0.43
32:BM:35:VAL:HG11	32:BM:109:PRO:CA	2.48	0.43
32:BM:35:VAL:CG1	32:BM:36:ARG:N	2.80	0.43
33:BN:30:GLU:HG2	33:BN:81:ARG:HH21	1.82	0.43
34:BO:63:SER:CA	34:BO:88:THR:CG2	2.96	0.43
34:BO:107:THR:CG2	34:BO:108:ALA:N	2.82	0.43
35:BP:37:ARG:NE	35:BP:37:ARG:HA	2.33	0.43
36:BQ:87:LYS:HD2	36:BQ:87:LYS:C	2.38	0.43
38:BS:23:ARG:HG3	38:BS:28:ILE:HG13	1.97	0.43
39:BT:97:ALA:O	39:BT:98:VAL:HG23	2.18	0.43
40:BU:35:LEU:CD1	40:BU:35:LEU:N	2.81	0.43
40:BU:57:LEU:N	40:BU:67:GLU:HG3	2.33	0.43
40:BU:58:VAL:CG1	40:BU:65:GLY:N	2.81	0.43
41:BV:80:LEU:CD2	41:BV:86:ARG:CD	2.95	0.43
41:BV:82:PRO:HD2	41:BV:120:VAL:HA	1.98	0.43
43:BW:15:LEU:N	43:BW:15:LEU:CD1	2.81	0.43
44:BX:42:PRO:O	44:BX:43:LYS:HG3	2.18	0.43
46:BZ:64:THR:CB	46:BZ:86:ARG:HB3	2.49	0.43
47:B9:29:GLU:HB3	47:B9:31:GLN:HB3	2.01	0.43
47:B9:31:GLN:HG2	47:B9:32:GLN:OE1	2.18	0.43
47:B9:50:ALA:O	47:B9:51:ALA:HB3	2.19	0.43
1:AA:112:G:H5'	1:AA:390:C:OP1	2.18	0.43
1:AA:265:G:H4'	16:AQ:130:ILE:O	2.19	0.43
1:AA:280:C:C2	16:AQ:102:ARG:CG	2.96	0.43
1:AA:581:G:P	15:AO:119:SER:OG	2.77	0.43
1:AA:640:A:C2'	1:AA:641:U:H5'	2.48	0.43
1:AA:677:U:H3	11:AK:123:ASP:C	2.22	0.43
1:AA:1074:G:O2'	3:AB:102:THR:HG21	2.19	0.43
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.82	0.43
1:AA:1177:G:C4	9:AI:106:LYS:HD2	2.54	0.43
1:AA:1331:G:O2'	1:AA:1332:A:P	2.77	0.43
1:AA:1344:C:P	9:AI:136:ARG:CG	3.03	0.43
2:AT:108:HIS:CB	2:AT:536:LEU:CD2	2.96	0.43
5:AD:90:LYS:NZ	6:AE:171:ALA:HB1	2.33	0.43
5:AD:109:LEU:HD23	5:AD:109:LEU:C	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:139:GLN:HE21	5:AD:139:GLN:HA	1.83	0.43
6:AE:115:LYS:HD2	6:AE:130:ILE:HB	2.01	0.43
6:AE:183:VAL:CG1	6:AE:187:LEU:HD13	2.40	0.43
10:AJ:22:ILE:HG23	10:AJ:116:VAL:HG11	1.98	0.43
12:AL:59:ILE:CD1	12:AL:117:ILE:CG2	2.97	0.43
13:AM:63:GLN:OE1	13:AM:63:GLN:HA	2.18	0.43
17:AS:64:LYS:HD3	17:AS:65:LEU:CA	2.48	0.43
18:B3:450:C:C3'	18:B3:1304:U:C2'	2.95	0.43
18:B3:698:A:P	41:BV:132:LEU:HD11	2.56	0.43
18:B3:710:G:OP2	34:BO:43:PRO:HD2	2.19	0.43
18:B3:721:A:OP2	34:BO:71:LEU:HD23	2.19	0.43
18:B3:760:G:H1'	23:BD:98:MET:HE3	2.00	0.43
18:B3:764:C:O2'	23:BD:86:GLN:O	2.33	0.43
18:B3:778:C:HO2'	45:BY:1:GLY:N	2.13	0.43
18:B3:807:A:N1	18:B3:808:A:C2	2.87	0.43
18:B3:875:A:H5'	18:B3:876:A:C2	2.53	0.43
18:B3:1133:A:C4'	18:B3:2521:A:H5'	2.49	0.43
18:B3:1164:U:OP1	30:BK:47:ALA:C	2.51	0.43
18:B3:1164:U:H6	30:BK:51:LYS:H	1.56	0.43
18:B3:1243:C:H4'	32:BM:17:ARG:HH12	1.74	0.43
18:B3:1288:U:H5'	25:BF:108:THR:CG2	2.49	0.43
18:B3:1399:A:H2'	18:B3:1400:C:C6	2.54	0.43
18:B3:1706:G:P	35:BP:65:HIS:HD1	2.42	0.43
18:B3:1846:U:H4'	21:BB:181:ALA:H	1.82	0.43
18:B3:2121:G:HO2'	31:BL:83:PRO:HD3	1.83	0.43
18:B3:2242:U:O2'	18:B3:2243:C:H2'	2.19	0.43
18:B3:2561:C:H5"	18:B3:2778:A:C5'	2.47	0.43
18:B3:2724:U:H2'	18:B3:2725:G:O4'	2.19	0.43
19:B4:10:C:H42	36:BQ:26:HIS:CE1	2.28	0.43
19:B4:97:U:HO2'	25:BF:223:ILE:HG23	1.83	0.43
20:BA:59:PRO:CD	20:BA:153:SER:HA	2.49	0.43
20:BA:63:MET:HE2	20:BA:108:ASN:CG	2.39	0.43
20:BA:196:LYS:HD2	20:BA:199:GLN:OE1	2.19	0.43
21:BB:36:ARG:N	21:BB:36:ARG:CD	2.82	0.43
21:BB:47:ILE:CD1	21:BB:47:ILE:N	2.82	0.43
21:BB:167:VAL:CG1	21:BB:168:ILE:N	2.81	0.43
22:BC:58:ASP:CG	22:BC:354:SER:HB2	2.39	0.43
22:BC:167:LYS:HE3	22:BC:167:LYS:HB2	1.77	0.43
22:BC:304:ILE:CD1	22:BC:358:ILE:HG12	2.47	0.43
23:BD:133:LEU:HD21	23:BD:243:LEU:HD23	2.01	0.43
23:BD:174:HIS:CD2	23:BD:175:SER:N	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BE:24:ARG:CG	24:BE:25:GLU:N	2.80	0.43
24:BE:90:HIS:CG	24:BE:91:GLY:H	2.36	0.43
24:BE:184:ASP:CA	24:BE:187:THR:CG2	2.91	0.43
26:BG:119:LYS:HE2	26:BG:184:ARG:HD3	1.99	0.43
26:BG:142:ILE:CD1	26:BG:172:MET:SD	3.06	0.43
27:BH:10:ILE:HD13	27:BH:10:ILE:C	2.38	0.43
27:BH:132:VAL:HG22	27:BH:133:THR:N	2.34	0.43
27:BH:138:THR:HG23	27:BH:139:ASN:OD1	2.17	0.43
28:BI:60:LEU:HD23	28:BI:60:LEU:N	2.34	0.43
28:BI:154:ARG:CZ	28:BI:154:ARG:CB	2.95	0.43
29:BJ:8:MET:HB2	29:BJ:9:ARG:HH21	1.83	0.43
29:BJ:16:LEU:CG	29:BJ:70:VAL:HG11	2.48	0.43
29:BJ:35:VAL:C	29:BJ:37:GLU:H	2.22	0.43
29:BJ:130:MET:HE3	29:BJ:162:PHE:CD2	2.54	0.43
29:BJ:136:ARG:HD3	29:BJ:137:VAL:N	2.34	0.43
29:BJ:165:LYS:O	29:BJ:166:TYR:CD2	2.72	0.43
30:BK:22:VAL:CG2	30:BK:23:GLY:N	2.80	0.43
31:BL:43:ARG:NE	31:BL:46:LYS:HE3	2.33	0.43
31:BL:58:PHE:CZ	31:BL:147:TYR:CD1	3.07	0.43
31:BL:151:CYS:CA	31:BL:157:HIS:NE2	2.82	0.43
31:BL:155:HIS:CG	31:BL:156:LYS:N	2.87	0.43
32:BM:43:SER:HA	32:BM:134:TYR:CB	2.47	0.43
33:BN:39:GLU:CG	33:BN:42:LYS:N	2.82	0.43
34:BO:110:ALA:O	34:BO:111:ARG:HG3	2.19	0.43
35:BP:8:ARG:HD2	35:BP:8:ARG:HH11	1.63	0.43
36:BQ:12:ARG:N	36:BQ:12:ARG:CD	2.81	0.43
37:BR:91:VAL:HB	38:BS:18:GLY:O	2.19	0.43
40:BU:70:ILE:CG2	40:BU:71:SER:N	2.82	0.43
40:BU:74:TYR:HD1	40:BU:75:ARG:N	2.16	0.43
41:BV:82:PRO:HD3	41:BV:120:VAL:HA	1.95	0.43
41:BV:90:LEU:HD22	41:BV:96:GLU:OE1	2.18	0.43
42:B0:14:THR:HG23	42:B0:15:LYS:O	2.18	0.43
42:B0:96:ILE:HG21	42:B0:122:PRO:HD2	2.00	0.43
43:BW:61:ARG:HG2	43:BW:62:GLY:N	2.32	0.43
45:BY:17:LEU:HA	45:BY:24:ARG:O	2.18	0.43
47:B9:22:ARG:CZ	47:B9:22:ARG:H	2.32	0.43
1:AA:6:G:C4'	1:AA:298:A:C2'	2.95	0.43
1:AA:99:C:C1'	1:AA:102:G:C5	2.98	0.43
1:AA:942:G:H2'	1:AA:943:U:H6	1.83	0.43
1:AA:1126:U:P	1:AA:1126:U:H6	2.41	0.43
1:AA:1176:A:C3'	9:AI:107:ALA:CB	2.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:78:ARG:NH1	3:AB:80:PHE:CD1	2.87	0.43
3:AB:116:GLU:O	3:AB:116:GLU:HG3	2.18	0.43
4:AC:98:VAL:N	4:AC:170:ALA:CB	2.82	0.43
6:AE:158:THR:O	6:AE:158:THR:HG23	2.19	0.43
6:AE:168:LEU:HD22	6:AE:197:THR:HG22	1.98	0.43
8:AH:100:TYR:HB2	8:AH:111:ASP:OD2	2.18	0.43
8:AH:100:TYR:CZ	8:AH:128:VAL:HG11	2.54	0.43
8:AH:117:ARG:HD3	8:AH:117:ARG:C	2.39	0.43
9:AI:98:GLU:C	9:AI:105:LYS:N	2.72	0.43
11:AK:26:PHE:HA	11:AK:41:VAL:HG12	2.00	0.43
12:AL:117:ILE:HG13	12:AL:117:ILE:O	2.19	0.43
13:AM:50:ALA:HB1	13:AM:68:ARG:HD2	2.01	0.43
14:AN:37:ILE:CG2	14:AN:38:CYS:N	2.82	0.43
15:AO:73:ILE:CG2	15:AO:74:LEU:N	2.82	0.43
17:AS:60:LEU:CD1	17:AS:83:MET:SD	3.07	0.43
17:AS:121:ILE:HD12	17:AS:121:ILE:H	1.84	0.43
18:B3:204:A:H2'	18:B3:205:U:H5'	2.01	0.43
18:B3:263:U:N3	26:BG:157:ASP:CG	2.70	0.43
18:B3:399:C:P	31:BL:180:ASN:CB	2.80	0.43
18:B3:521:A:P	42:B0:26:HIS:NE2	2.73	0.43
18:B3:541:C:H5"	42:B0:14:THR:HG23	2.01	0.43
18:B3:582:C:H2'	18:B3:583:G:C8	2.48	0.43
18:B3:644:G:O6	41:BV:16:ALA:HB3	2.18	0.43
18:B3:664:U:P	23:BD:114:HIS:CB	3.06	0.43
18:B3:678:G:C8	23:BD:259:GLN:OE1	2.71	0.43
18:B3:925:C:H1'	41:BV:42:ILE:O	2.18	0.43
18:B3:1103:C:C2	32:BM:86:MET:HG2	2.51	0.43
18:B3:1336:U:C5	42:B0:98:HIS:HB2	2.53	0.43
18:B3:1386:G:H5'	43:BW:49:ARG:HD3	1.28	0.43
18:B3:1397:C:O2'	35:BP:23:LEU:CB	2.65	0.43
18:B3:1518:A:H2'	18:B3:1519:U:C6	2.54	0.43
18:B3:1524:U:O2'	18:B3:1525:G:P	2.76	0.43
18:B3:1694:G:H22	45:BY:5:PRO:HG3	1.40	0.43
18:B3:1705:C:O2'	35:BP:61:ARG:HB3	2.19	0.43
18:B3:1878:G:O2'	18:B3:1879:U:P	2.77	0.43
18:B3:2066:C:OP2	22:BC:255:HIS:HB2	2.16	0.43
18:B3:2413:A:C1'	24:BE:175:HIS:CA	2.90	0.43
18:B3:2518:C:O2	28:BI:158:LYS:HD2	2.18	0.43
18:B3:2853:U:OP2	22:BC:170:LEU:CB	2.67	0.43
19:B4:52:A:C2'	19:B4:53:G:H5'	2.48	0.43
21:BB:127:ARG:CG	21:BB:128:ALA:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:24:ILE:O	22:BC:24:ILE:HG13	2.18	0.43
22:BC:33:LYS:HD3	22:BC:33:LYS:C	2.39	0.43
22:BC:42:LEU:N	22:BC:42:LEU:CD1	2.81	0.43
22:BC:87:GLY:N	22:BC:198:PHE:CE1	2.87	0.43
22:BC:91:TYR:HB2	22:BC:155:SER:HB2	2.00	0.43
22:BC:161:VAL:HG11	22:BC:180:ILE:CG1	2.48	0.43
23:BD:221:VAL:CG1	23:BD:224:VAL:CB	2.94	0.43
24:BE:18:THR:HA	24:BE:19:PRO:HD3	1.68	0.43
24:BE:32:GLN:C	24:BE:34:LYS:H	2.21	0.43
24:BE:49:TYR:CE2	24:BE:144:VAL:CG1	2.95	0.43
24:BE:75:LEU:CG	24:BE:76:ALA:N	2.82	0.43
24:BE:76:ALA:HB1	24:BE:108:ARG:HB3	2.00	0.43
25:BF:106:ARG:HB3	25:BF:107:LEU:H	1.64	0.43
27:BH:41:ILE:CG2	27:BH:42:ASP:N	2.81	0.43
27:BH:55:VAL:CG1	27:BH:56:ALA:N	2.80	0.43
27:BH:128:VAL:CG1	27:BH:129:ARG:N	2.82	0.43
27:BH:138:THR:CG2	27:BH:139:ASN:N	2.82	0.43
28:BI:167:LEU:HD13	28:BI:168:SER:CA	2.48	0.43
29:BJ:98:THR:CG2	29:BJ:99:GLY:N	2.81	0.43
29:BJ:136:ARG:HD3	29:BJ:136:ARG:N	2.34	0.43
30:BK:79:SER:HA	30:BK:82:ILE:HD12	2.00	0.43
30:BK:90:ARG:HB2	30:BK:139:VAL:HG23	2.00	0.43
31:BL:3:TYR:HD1	31:BL:3:TYR:HA	1.53	0.43
31:BL:10:GLN:OE1	31:BL:18:LEU:HD21	2.19	0.43
31:BL:70:ARG:C	31:BL:72:ARG:HE	2.21	0.43
31:BL:158:ARG:HB3	31:BL:158:ARG:HH11	1.80	0.43
31:BL:163:LEU:HD13	31:BL:165:ALA:H	1.84	0.43
32:BM:54:HIS:HA	32:BM:60:ALA:HB3	2.00	0.43
32:BM:133:LYS:H	32:BM:133:LYS:CD	2.22	0.43
33:BN:59:PHE:HE1	33:BN:79:LYS:CD	2.29	0.43
34:BO:79:LYS:HZ2	34:BO:99:THR:CG2	2.32	0.43
40:BU:38:GLU:O	40:BU:42:GLN:HG2	2.19	0.43
43:BW:26:LYS:HG2	43:BW:29:PRO:HB2	2.01	0.43
45:BY:2:LYS:HD2	45:BY:3:GLY:O	2.19	0.43
46:BZ:15:THR:CG2	46:BZ:76:CYS:SG	3.07	0.43
47:B9:15:VAL:HG23	47:B9:15:VAL:O	2.19	0.43
1:AA:111:G:H1'	1:AA:389:A:C1'	2.49	0.43
1:AA:121:C:C4	1:AA:235:C:C4	3.03	0.43
1:AA:521:G:H5'	12:AL:89:ASN:N	2.30	0.43
1:AA:552:U:O3'	12:AL:106:GLY:HA3	2.19	0.43
1:AA:765:G:N2	1:AA:812:C:O2'	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:865:A:O3'	1:AA:1079:G:C2	2.66	0.43
1:AA:974:A:H8	1:AA:974:A:OP1	2.02	0.43
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.19	0.43
1:AA:1317:C:C2'	17:AS:54:ALA:HA	2.49	0.43
1:AA:1492:A:H2'	1:AA:1493:A:C8	2.53	0.43
2:AT:43:ALA:HB1	2:AT:78:TYR:O	2.18	0.43
2:AT:91:GLN:HG3	2:AT:347:THR:OG1	2.18	0.43
2:AT:306:VAL:O	2:AT:306:VAL:HG23	2.19	0.43
4:AC:72:VAL:CG1	4:AC:83:ILE:HD12	2.49	0.43
4:AC:114:ILE:HG22	4:AC:141:LEU:HD21	2.00	0.43
5:AD:55:ALA:HB1	5:AD:59:LEU:HB3	2.01	0.43
5:AD:172:VAL:CG1	5:AD:173:ALA:N	2.82	0.43
7:AG:92:LEU:HD12	7:AG:92:LEU:N	2.34	0.43
8:AH:6:LEU:HD21	8:AH:125:LEU:HB3	2.00	0.43
9:AI:61:ASN:OD1	9:AI:62:ILE:HG12	2.19	0.43
10:AJ:34:LEU:O	10:AJ:37:VAL:HG22	2.19	0.43
10:AJ:70:THR:HA	14:AN:42:PHE:HB3	0.70	0.43
12:AL:92:CYS:CA	12:AL:136:TRP:HZ3	2.31	0.43
13:AM:46:VAL:HG23	13:AM:84:TRP:CZ2	2.54	0.43
13:AM:49:LYS:HA	13:AM:49:LYS:HE2	2.00	0.43
16:AQ:74:VAL:CG2	16:AQ:116:VAL:HG21	2.40	0.43
16:AQ:123:THR:OG1	16:AQ:139:VAL:HB	2.19	0.43
17:AS:56:PHE:H	17:AS:80:MET:HE1	1.84	0.43
18:B3:189:A:H4'	31:BL:187:ARG:HA	2.00	0.43
18:B3:264:G:N2	26:BG:133:TYR:CD2	2.87	0.43
18:B3:721:A:C5'	34:BO:71:LEU:CA	2.97	0.43
18:B3:966:U:O2'	28:BI:92:HIS:CE1	2.72	0.43
18:B3:1021:G:O2'	18:B3:1022:A:H5'	2.19	0.43
18:B3:1054:G:H3'	28:BI:110:ARG:HB2	2.01	0.43
18:B3:1097:A:P	25:BF:213:TRP:CE3	2.93	0.43
18:B3:1103:C:H1'	32:BM:86:MET:CB	2.48	0.43
18:B3:1209:C:H2'	18:B3:1210:G:C8	2.45	0.43
18:B3:1305:C:OP2	23:BD:191:GLY:C	2.56	0.43
18:B3:1360:C:P	23:BD:91:ASN:OD1	2.71	0.43
18:B3:1396:C:O4'	35:BP:2:ASN:HB2	2.19	0.43
18:B3:1521:C:O2'	18:B3:1522:A:H5'	2.19	0.43
18:B3:1566:C:OP1	35:BP:59:LYS:CG	2.58	0.43
18:B3:1675:C:OP1	39:BT:118:THR:O	2.36	0.43
18:B3:2222:C:O2'	18:B3:2223:C:H5'	2.19	0.43
18:B3:2253:G:H2'	18:B3:2254:G:C8	2.50	0.43
18:B3:2283:G:O6	28:BI:106:ALA:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2312:G:H2'	18:B3:2313:C:H5'	2.01	0.43
18:B3:2337:G:N2	29:BJ:17:VAL:O	2.44	0.43
18:B3:2345:A:H4'	29:BJ:48:LYS:HZ2	1.79	0.43
18:B3:2820:A:H2'	18:B3:2821:C:C6	2.54	0.43
18:B3:2838:A:H2'	18:B3:2839:C:C6	2.54	0.43
19:B4:98:C:H4'	25:BF:223:ILE:H	1.84	0.43
21:BB:89:ALA:CA	21:BB:100:VAL:CG2	2.95	0.43
21:BB:199:ARG:O	21:BB:199:ARG:HG2	2.19	0.43
22:BC:75:VAL:CG1	22:BC:326:CYS:CB	2.94	0.43
22:BC:182:LEU:HG	22:BC:194:ALA:HB2	2.00	0.43
22:BC:221:LYS:HG2	22:BC:331:ARG:CG	2.49	0.43
22:BC:247:LYS:HE2	22:BC:247:LYS:N	2.23	0.43
23:BD:5:VAL:HG23	23:BD:148:PRO:HG3	2.01	0.43
23:BD:24:VAL:O	23:BD:25:PHE:CD2	2.72	0.43
23:BD:30:ARG:NH2	34:BO:23:ASN:CB	2.77	0.43
23:BD:133:LEU:HD21	23:BD:243:LEU:CD2	2.48	0.43
24:BE:76:ALA:HB3	24:BE:109:THR:CA	2.49	0.43
24:BE:99:TYR:CD2	24:BE:99:TYR:N	2.82	0.43
24:BE:112:ARG:CD	24:BE:113:LEU:N	2.82	0.43
25:BF:153:GLY:N	25:BF:200:PHE:CB	2.81	0.43
26:BG:111:GLU:CB	26:BG:117:GLU:HG3	2.48	0.43
26:BG:168:LEU:HD23	26:BG:168:LEU:HA	1.84	0.43
26:BG:193:THR:CG2	26:BG:194:SER:N	2.82	0.43
27:BH:42:ASP:HB2	32:BM:126:LEU:HD21	1.17	0.43
28:BI:92:HIS:HA	28:BI:93:PRO:HD3	1.71	0.43
28:BI:102:MET:HE2	28:BI:112:GLN:CA	2.49	0.43
29:BJ:18:LEU:CD1	29:BJ:19:ASN:N	2.82	0.43
29:BJ:148:GLY:O	29:BJ:149:ASN:HB3	2.19	0.43
29:BJ:166:TYR:CD1	29:BJ:166:TYR:C	2.92	0.43
30:BK:87:GLU:HG3	30:BK:101:SER:O	2.19	0.43
30:BK:113:ALA:N	30:BK:132:ILE:CD1	2.82	0.43
31:BL:48:ARG:H	31:BL:52:TYR:CB	2.31	0.43
31:BL:97:LEU:H	31:BL:97:LEU:CD2	2.16	0.43
32:BM:2:VAL:HG12	32:BM:32:ILE:CD1	2.49	0.43
32:BM:5:VAL:CG1	32:BM:32:ILE:N	2.82	0.43
32:BM:40:LEU:CD2	32:BM:137:LEU:HA	2.49	0.43
34:BO:100:THR:HG21	34:BO:120:GLU:N	2.34	0.43
35:BP:37:ARG:HD2	35:BP:37:ARG:N	2.34	0.43
35:BP:81:LYS:HD2	35:BP:81:LYS:C	2.38	0.43
37:BR:9:THR:CG2	37:BR:10:LYS:N	2.82	0.43
37:BR:13:ILE:CD1	37:BR:14:SER:N	2.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BS:23:ARG:CG	38:BS:28:ILE:CG1	2.94	0.43
38:BS:52:THR:HB	38:BS:55:PHE:N	2.34	0.43
38:BS:55:PHE:CD2	38:BS:56:ARG:N	2.87	0.43
39:BT:75:VAL:HB	39:BT:131:ALA:HB1	2.00	0.43
40:BU:40:ARG:CZ	40:BU:41:ALA:HB3	2.47	0.43
40:BU:85:VAL:CG1	40:BU:86:THR:N	2.82	0.43
40:BU:103:LYS:CD	40:BU:104:LEU:N	2.82	0.43
41:BV:81:ILE:HG13	41:BV:86:ARG:NH1	2.34	0.43
42:B0:41:VAL:CG1	42:B0:42:VAL:N	2.82	0.43
46:BZ:65:LYS:HA	46:BZ:66:LYS:HE2	2.00	0.43
1:AA:19:C:O2'	1:AA:20:U:H5'	2.19	0.42
1:AA:25:C:C1'	12:AL:109:ARG:HH12	2.30	0.42
1:AA:65:U:O2	1:AA:382:A:C4	2.57	0.42
1:AA:255:G:C1'	16:AQ:80:HIS:HB2	2.48	0.42
1:AA:362:G:O2'	12:AL:78:LYS:CG	2.67	0.42
1:AA:877:C:H1'	8:AH:3:SER:HG	1.59	0.42
1:AA:924:C:C4'	1:AA:1398:A:N7	2.82	0.42
1:AA:1152:A:H4'	10:AJ:31:VAL:HB	0.97	0.42
1:AA:1302:U:OP2	13:AM:43:SER:C	2.58	0.42
1:AA:1320:C:N4	17:AS:81:ARG:O	2.52	0.42
1:AA:1320:C:H3'	17:AS:115:TYR:HB2	1.99	0.42
1:AA:1329:A:C6	13:AM:97:ASP:OD1	2.69	0.42
1:AA:1341:U:OP1	9:AI:141:TYR:HE2	1.88	0.42
1:AA:1344:C:C5'	9:AI:136:ARG:HB3	2.48	0.42
3:AB:100:ARG:HD2	3:AB:100:ARG:N	2.33	0.42
4:AC:83:ILE:CG2	4:AC:84:VAL:N	2.82	0.42
4:AC:114:ILE:CG2	4:AC:141:LEU:CG	2.95	0.42
5:AD:27:GLU:CB	5:AD:34:PHE:HB2	2.49	0.42
5:AD:104:PHE:H	5:AD:107:ARG:HE	1.66	0.42
6:AE:215:VAL:O	8:AH:76:PRO:HG3	2.19	0.42
7:AG:101:ARG:HD2	7:AG:106:LYS:HD2	2.00	0.42
7:AG:118:ASP:HA	7:AG:121:ASN:HD22	1.84	0.42
9:AI:15:ALA:HB2	9:AI:75:SER:OG	2.19	0.42
9:AI:47:VAL:CG1	9:AI:81:ARG:HA	2.47	0.42
9:AI:99:GLN:HG2	9:AI:114:THR:H	1.83	0.42
10:AJ:32:LYS:HG3	10:AJ:36:ASN:ND2	2.33	0.42
10:AJ:78:THR:HG1	14:AN:39:ARG:NH2	2.06	0.42
11:AK:29:VAL:HG23	11:AK:66:VAL:HG12	1.95	0.42
11:AK:63:ALA:HB3	11:AK:103:ALA:CB	2.48	0.42
12:AL:28:ASN:HB3	12:AL:30:LYS:O	2.19	0.42
13:AM:26:ILE:CA	13:AM:57:ARG:CD	2.96	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:122:HIS:O	13:AM:126:ARG:HG2	2.19	0.42
15:AO:77:ASN:ND2	15:AO:88:TYR:CG	2.87	0.42
18:B3:123:U:H3'	39:BT:88:LYS:HE2	1.42	0.42
18:B3:194:A:O3'	31:BL:178:LYS:O	2.37	0.42
18:B3:263:U:O4	26:BG:157:ASP:OD1	2.37	0.42
18:B3:264:G:OP1	31:BL:48:ARG:NE	2.45	0.42
18:B3:364:C:H2'	18:B3:365:G:C8	2.54	0.42
18:B3:541:C:P	42:B0:16:LYS:C	2.97	0.42
18:B3:588:G:O2'	18:B3:589:U:P	2.77	0.42
18:B3:618:G:H4'	42:B0:41:VAL:O	2.19	0.42
18:B3:677:C:H3'	23:BD:259:GLN:HG2	1.05	0.42
18:B3:1182:U:H5"	30:BK:142:ARG:O	2.19	0.42
18:B3:1447:U:C4	39:BT:70:THR:HA	2.54	0.42
18:B3:1666:C:O2'	18:B3:1667:A:H5'	2.19	0.42
18:B3:1687:C:O2'	45:BY:8:GLY:C	2.53	0.42
18:B3:1861:C:O2'	21:BB:7:GLN:CA	2.67	0.42
18:B3:2301:A:H5"	18:B3:2302:A:H5'	2.02	0.42
18:B3:2433:A:H5'	46:BZ:36:ALA:HB3	0.84	0.42
18:B3:2559:C:O2'	18:B3:2776:A:N1	2.40	0.42
18:B3:2820:A:H1'	22:BC:89:VAL:HG11	1.81	0.42
18:B3:2885:A:O2'	18:B3:2886:C:H5'	2.19	0.42
21:BB:57:LEU:HD12	21:BB:74:ILE:HG21	2.00	0.42
21:BB:142:GLU:CG	21:BB:144:LYS:CD	2.95	0.42
21:BB:143:ASN:C	21:BB:144:LYS:HD2	2.40	0.42
21:BB:188:TYR:CG	21:BB:189:ARG:N	2.86	0.42
22:BC:71:VAL:HG22	37:BR:87:ARG:HD2	1.16	0.42
22:BC:221:LYS:CG	22:BC:331:ARG:CG	2.96	0.42
22:BC:280:LYS:CA	22:BC:324:LYS:HE2	2.48	0.42
22:BC:332:LYS:N	22:BC:332:LYS:CD	2.82	0.42
23:BD:205:LEU:HD23	23:BD:224:VAL:HB	2.01	0.42
24:BE:56:THR:CG2	24:BE:57:ASN:N	2.82	0.42
26:BG:163:VAL:CG1	26:BG:164:PHE:N	2.82	0.42
27:BH:46:THR:CA	27:BH:55:VAL:HG23	2.48	0.42
28:BI:165:ILE:CG2	28:BI:166:ILE:N	2.82	0.42
29:BJ:13:ILE:CG2	29:BJ:162:PHE:CE2	2.96	0.42
30:BK:93:LYS:HE3	30:BK:96:LYS:HB3	2.01	0.42
31:BL:114:VAL:HA	31:BL:133:LEU:HA	2.00	0.42
31:BL:132:ILE:O	31:BL:133:LEU:HD23	2.19	0.42
32:BM:17:ARG:NH1	32:BM:17:ARG:HG3	2.34	0.42
32:BM:26:LEU:CD2	32:BM:97:ALA:CB	2.95	0.42
32:BM:90:LYS:CD	32:BM:90:LYS:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:95:LYS:HD3	32:BM:95:LYS:O	2.19	0.42
33:BN:49:GLN:HG2	33:BN:55:ARG:HB2	2.01	0.42
35:BP:8:ARG:NH2	35:BP:18:LYS:HD3	2.34	0.42
35:BP:43:LEU:CD2	35:BP:43:LEU:H	2.32	0.42
35:BP:116:LYS:HE2	35:BP:117:HIS:NE2	2.33	0.42
37:BR:26:ALA:CA	37:BR:115:THR:HG22	2.49	0.42
37:BR:79:VAL:CG1	37:BR:118:VAL:HG12	2.49	0.42
37:BR:80:ARG:NH2	37:BR:85:TRP:CZ2	2.87	0.42
39:BT:132:LEU:CG	39:BT:133:ASP:N	2.82	0.42
41:BV:101:ILE:HG22	41:BV:102:ASP:N	2.32	0.42
42:B0:42:VAL:CG1	42:B0:43:ARG:N	2.82	0.42
42:B0:96:ILE:CD1	42:B0:109:LEU:CD1	2.95	0.42
45:BY:9:LYS:CD	45:BY:10:ARG:N	2.82	0.42
46:BZ:11:CYS:SG	46:BZ:73:CYS:CB	3.06	0.42
46:BZ:44:ARG:CD	46:BZ:45:LYS:N	2.82	0.42
47:B9:38:CYS:SG	47:B9:61:LYS:CG	3.07	0.42
1:AA:21:G:C5'	1:AA:884:U:O4'	2.67	0.42
1:AA:143:A:O4'	1:AA:199:G:H2'	2.18	0.42
1:AA:584:G:H2'	1:AA:585:G:C8	2.53	0.42
1:AA:618:C:OP2	5:AD:141:VAL:HA	2.18	0.42
1:AA:625:G:O2'	1:AA:626:U:H5'	2.19	0.42
1:AA:742:G:H5'	15:AO:113:ARG:HD2	0.86	0.42
1:AA:1067:A:C4'	1:AA:1387:G:H4'	2.49	0.42
1:AA:1068:G:O5'	1:AA:1388:C:C5'	2.67	0.42
1:AA:1220:G:H5'	17:AS:59:LYS:CB	2.32	0.42
1:AA:1277:C:H1'	1:AA:1282:C:O2	2.19	0.42
1:AA:1298:C:H5"	13:AM:27:LYS:HD3	1.53	0.42
1:AA:1353:G:H2'	1:AA:1354:C:C6	2.54	0.42
1:AA:1482:G:H4'	18:B3:1989:G:H4'	2.01	0.42
1:AA:1483:A:O2'	18:B3:1988:C:C2	2.73	0.42
2:AT:216:HIS:HB3	2:AT:218:TRP:HD1	1.84	0.42
2:AT:633:ILE:HD12	2:AT:635:CYS:N	2.34	0.42
5:AD:61:THR:CG2	5:AD:62:ARG:N	2.82	0.42
6:AE:164:VAL:CG1	6:AE:209:THR:HG22	2.50	0.42
8:AH:6:LEU:CD2	8:AH:125:LEU:HB3	2.49	0.42
8:AH:23:GLN:HG2	8:AH:24:VAL:N	2.33	0.42
9:AI:41:GLU:O	9:AI:41:GLU:HG3	2.19	0.42
10:AJ:30:LYS:HG3	10:AJ:32:LYS:H	1.84	0.42
10:AJ:74:GLU:O	14:AN:38:CYS:CB	2.58	0.42
12:AL:29:TYR:HB3	12:AL:30:LYS:NZ	2.34	0.42
15:AO:116:LEU:HD12	15:AO:116:LEU:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:45:A:H5'	18:B3:45:A:C8	2.53	0.42
18:B3:45:A:H5'	18:B3:45:A:H8	1.83	0.42
18:B3:882:A:H4'	45:BY:2:LYS:HB2	2.01	0.42
18:B3:925:C:H4'	41:BV:28:PRO:CB	2.36	0.42
18:B3:1074:G:C5'	42:B0:45:ARG:HH11	2.32	0.42
18:B3:1228:C:O3'	32:BM:47:PHE:HD2	1.83	0.42
18:B3:1369:A:C4'	33:BN:64:SER:N	2.68	0.42
18:B3:1707:G:O2'	35:BP:81:LYS:HD3	1.89	0.42
18:B3:1730:G:H5'	18:B3:1731:C:H5	1.80	0.42
18:B3:1787:C:C2	18:B3:2883:A:H8	2.20	0.42
18:B3:1807:U:C5'	18:B3:2885:A:O4'	2.52	0.42
18:B3:1811:A:N6	18:B3:2730:G:C2	2.87	0.42
18:B3:1829:A:H2	47:B9:17:TYR:CD2	1.90	0.42
18:B3:1862:C:OP1	21:BB:7:GLN:HB2	2.19	0.42
18:B3:2124:G:H2'	18:B3:2125:G:H8	1.85	0.42
18:B3:2136:G:H1'	18:B3:2239:C:N3	2.34	0.42
18:B3:2166:G:C6	20:BA:60:ARG:C	2.93	0.42
18:B3:2389:U:OP2	36:BQ:88:ARG:NH2	2.48	0.42
18:B3:2626:C:H2'	18:B3:2627:G:C8	2.54	0.42
18:B3:2734:G:P	35:BP:79:LYS:HD3	2.59	0.42
18:B3:2819:C:H2'	22:BC:100:SER:CB	2.48	0.42
18:B3:2853:U:C5'	22:BC:170:LEU:CG	2.56	0.42
19:B4:6:C:OP2	24:BE:27:LYS:C	2.58	0.42
19:B4:7:G:C6	24:BE:21:ARG:NE	2.87	0.42
19:B4:36:C:C2	24:BE:181:PRO:HD3	2.53	0.42
19:B4:49:G:C6	24:BE:93:THR:OG1	2.73	0.42
19:B4:72:C:O2'	19:B4:73:G:H5'	2.18	0.42
20:BA:71:ALA:O	20:BA:72:PHE:HB3	2.19	0.42
20:BA:124:LEU:N	20:BA:124:LEU:CD1	2.82	0.42
20:BA:154:THR:CB	20:BA:160:LYS:H	2.31	0.42
21:BB:3:VAL:CG2	21:BB:7:GLN:HE21	2.32	0.42
21:BB:19:THR:CG2	21:BB:20:ARG:N	2.83	0.42
21:BB:98:GLY:N	21:BB:165:ILE:HG21	2.34	0.42
21:BB:187:LYS:CE	21:BB:187:LYS:N	2.82	0.42
21:BB:192:ARG:O	21:BB:193:ASN:HB3	2.19	0.42
22:BC:260:MET:O	22:BC:261:TRP:CG	2.72	0.42
23:BD:82:GLY:HA2	23:BD:83:ARG:HH22	1.83	0.42
24:BE:44:TYR:CD2	24:BE:45:ASN:N	2.87	0.42
24:BE:57:ASN:O	24:BE:58:LYS:HG3	2.09	0.42
24:BE:64:ILE:HD12	24:BE:144:VAL:HG11	1.98	0.42
24:BE:139:PRO:O	24:BE:142:PHE:HD1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:89:LYS:HG2	25:BF:218:LYS:HE2	2.02	0.42
25:BF:109:ARG:HB3	25:BF:109:ARG:NH1	2.34	0.42
25:BF:150:ARG:NH1	25:BF:151:GLY:H	2.17	0.42
27:BH:23:ARG:HB3	27:BH:45:PHE:CG	2.55	0.42
27:BH:33:THR:CG2	27:BH:34:LEU:N	2.82	0.42
27:BH:47:LYS:N	27:BH:55:VAL:HG21	2.29	0.42
27:BH:72:LYS:HB3	27:BH:72:LYS:NZ	2.34	0.42
27:BH:96:HIS:C	27:BH:97:PHE:CD1	2.92	0.42
27:BH:106:LYS:HG3	27:BH:107:ASP:N	2.35	0.42
27:BH:124:ARG:HH11	27:BH:125:ASN:N	2.17	0.42
28:BI:39:LYS:CD	28:BI:40:LYS:N	2.82	0.42
28:BI:46:PHE:CZ	28:BI:139:ARG:NE	2.87	0.42
28:BI:46:PHE:CD1	28:BI:46:PHE:C	2.92	0.42
28:BI:102:MET:HA	28:BI:102:MET:HE3	2.00	0.42
28:BI:102:MET:CB	28:BI:113:GLN:HG3	2.43	0.42
29:BJ:6:ASN:N	29:BJ:7:PRO:HD2	2.34	0.42
30:BK:22:VAL:HG22	30:BK:23:GLY:H	1.84	0.42
31:BL:22:GLN:O	31:BL:25:ARG:CD	2.67	0.42
31:BL:161:ARG:CZ	31:BL:162:GLY:N	2.82	0.42
31:BL:175:LYS:HA	31:BL:175:LYS:CE	2.49	0.42
31:BL:177:HIS:CD2	31:BL:178:LYS:N	2.87	0.42
31:BL:182:THR:O	31:BL:182:THR:HG23	2.19	0.42
34:BO:63:SER:HA	34:BO:88:THR:HG22	1.98	0.42
34:BO:87:VAL:HG13	34:BO:106:PHE:CG	2.53	0.42
35:BP:8:ARG:HH22	35:BP:18:LYS:CD	2.33	0.42
35:BP:114:ILE:HD12	35:BP:114:ILE:HA	1.98	0.42
35:BP:116:LYS:HA	35:BP:119:TYR:HD1	1.79	0.42
35:BP:137:LEU:HD23	35:BP:137:LEU:C	2.40	0.42
37:BR:25:CYS:CB	37:BR:31:ALA:HB1	2.49	0.42
37:BR:115:THR:O	37:BR:115:THR:HG23	2.19	0.42
40:BU:87:LYS:CD	40:BU:88:GLU:N	2.82	0.42
41:BV:90:LEU:HD13	41:BV:96:GLU:CD	2.39	0.42
42:B0:109:LEU:O	42:B0:112:ALA:HB2	2.18	0.42
43:BW:10:GLU:CG	43:BW:69:ARG:CG	2.94	0.42
44:BX:51:ILE:CG2	44:BX:52:ALA:N	2.81	0.42
44:BX:58:ILE:HG13	44:BX:59:ASN:H	1.79	0.42
45:BY:30:LYS:HD2	45:BY:32:THR:N	2.34	0.42
47:B9:24:GLN:CG	47:B9:25:VAL:N	2.82	0.42
1:AA:69:G:OP2	1:AA:172:A:H3'	2.19	0.42
1:AA:119:A:O5'	1:AA:122:G:C5	2.48	0.42
1:AA:120:A:N1	1:AA:238:G:N2	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:337:C:H2'	1:AA:338:A:H8	1.83	0.42
1:AA:404:U:H3	5:AD:26:ALA:HB3	1.84	0.42
1:AA:860:A:C4'	3:AB:133:LYS:NZ	2.83	0.42
1:AA:1374:A:O3'	7:AG:98:MET:HB3	2.19	0.42
2:AT:32:LYS:O	2:AT:36:THR:HG23	2.20	0.42
2:AT:197:LEU:HD12	2:AT:197:LEU:N	2.34	0.42
2:AT:325:ARG:O	2:AT:329:PRO:HG3	2.19	0.42
7:AG:107:LEU:HD21	7:AG:108:LYS:HZ3	1.84	0.42
8:AH:39:VAL:CG1	8:AH:40:MET:N	2.82	0.42
8:AH:70:LYS:CG	8:AH:71:CYS:H	2.33	0.42
8:AH:92:LEU:C	8:AH:94:PRO:HD3	2.39	0.42
9:AI:68:VAL:HB	9:AI:80:ILE:HD11	2.00	0.42
9:AI:88:LEU:HG	9:AI:88:LEU:O	2.19	0.42
11:AK:30:THR:HG1	11:AK:35:LYS:C	2.22	0.42
12:AL:117:ILE:HD11	12:AL:120:VAL:HG21	2.01	0.42
13:AM:21:ASN:HD21	13:AM:35:ILE:HG23	1.85	0.42
14:AN:23:CYS:SG	14:AN:37:ILE:CG1	3.08	0.42
14:AN:23:CYS:SG	14:AN:37:ILE:HD12	2.59	0.42
15:AO:94:ALA:HA	15:AO:117:ILE:HD11	2.01	0.42
16:AQ:111:SER:HB2	16:AQ:112:PRO:CD	2.38	0.42
17:AS:85:ILE:CG2	17:AS:116:LEU:HD21	2.38	0.42
18:B3:219:G:OP1	46:BZ:41:ARG:CZ	2.66	0.42
18:B3:243:A:H61	18:B3:269:G:H1'	1.83	0.42
18:B3:449:A:C5'	18:B3:1306:U:H1'	2.33	0.42
18:B3:449:A:C2	18:B3:1348:A:N1	2.81	0.42
18:B3:517:U:C1'	18:B3:1319:G:N2	2.81	0.42
18:B3:631:A:C6	18:B3:2074:A:H5'	2.53	0.42
18:B3:696:C:O2'	18:B3:731:U:OP1	2.34	0.42
18:B3:882:A:H4'	45:BY:2:LYS:CB	2.43	0.42
18:B3:968:G:C4'	28:BI:35:ASP:CG	2.88	0.42
18:B3:1142:C:O2'	18:B3:1143:G:H5'	2.19	0.42
18:B3:1170:U:O2'	18:B3:1172:G:N7	2.35	0.42
18:B3:1173:A:P	30:BK:40:LYS:HZ3	2.41	0.42
18:B3:1181:A:C4'	30:BK:109:ILE:HG12	2.44	0.42
18:B3:1184:A:P	30:BK:85:LEU:HD11	2.59	0.42
18:B3:1309:U:OP2	23:BD:203:GLY:C	2.46	0.42
18:B3:1360:C:C1'	23:BD:88:ALA:N	2.82	0.42
18:B3:1705:C:O3'	18:B3:2736:U:OP2	2.36	0.42
18:B3:1806:G:C4'	18:B3:2884:G:N2	2.82	0.42
18:B3:2329:C:OP1	19:B4:46:C:C4'	2.68	0.42
18:B3:2338:G:P	29:BJ:122:PHE:H	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2502:C:H1'	28:BI:157:TYR:CE1	2.54	0.42
18:B3:2652:U:O2'	22:BC:257:ALA:N	2.52	0.42
18:B3:2739:A:OP2	35:BP:60:SER:CA	2.67	0.42
18:B3:2847:G:O2'	18:B3:2848:G:H5'	2.19	0.42
18:B3:2909:G:H2'	18:B3:2910:A:H8	1.83	0.42
19:B4:3:A:H62	19:B4:25:G:H1	1.66	0.42
20:BA:102:LYS:O	20:BA:105:LYS:HG2	2.19	0.42
21:BB:22:ARG:N	21:BB:22:ARG:CD	2.83	0.42
21:BB:187:LYS:N	21:BB:187:LYS:HE2	2.34	0.42
21:BB:201:VAL:CB	21:BB:216:GLN:HE22	2.32	0.42
22:BC:48:TYR:CG	22:BC:335:VAL:HA	2.51	0.42
22:BC:59:LEU:HD12	22:BC:66:PHE:HB2	1.96	0.42
22:BC:199:GLU:O	22:BC:200:LYS:HB2	2.20	0.42
23:BD:133:LEU:HD12	23:BD:133:LEU:HA	1.87	0.42
23:BD:174:HIS:CA	23:BD:177:LEU:CD1	2.95	0.42
24:BE:105:ILE:CG2	24:BE:106:ALA:N	2.82	0.42
24:BE:206:GLN:HG3	24:BE:209:GLU:OE2	2.18	0.42
24:BE:223:PHE:CD1	24:BE:224:LYS:N	2.88	0.42
25:BF:131:PRO:HB3	25:BF:228:PHE:CZ	2.54	0.42
25:BF:147:VAL:HG11	25:BF:184:ILE:CG2	2.49	0.42
25:BF:151:GLY:CA	25:BF:162:LEU:HD11	2.48	0.42
25:BF:172:LEU:HD13	25:BF:173:GLY:CA	2.49	0.42
26:BG:120:SER:N	26:BG:188:LEU:CD1	2.82	0.42
26:BG:135:LEU:HD13	26:BG:135:LEU:C	2.40	0.42
27:BH:47:LYS:HG3	27:BH:48:VAL:N	2.33	0.42
27:BH:59:ASN:HB3	27:BH:64:HIS:CD2	2.54	0.42
27:BH:94:TYR:CE2	27:BH:99:ILE:HB	2.54	0.42
27:BH:161:LEU:HA	27:BH:164:ILE:HG12	1.99	0.42
28:BI:38:LYS:HD2	28:BI:38:LYS:C	2.39	0.42
28:BI:58:GLU:HB2	28:BI:128:ARG:CA	2.49	0.42
28:BI:98:ARG:O	28:BI:98:ARG:HG2	2.19	0.42
29:BJ:14:GLU:HG2	29:BJ:15:LYS:HZ2	1.83	0.42
29:BJ:36:LEU:CB	29:BJ:67:HIS:NE2	2.83	0.42
29:BJ:91:ARG:CD	29:BJ:159:VAL:CG2	2.94	0.42
30:BK:18:VAL:CG1	30:BK:19:GLY:N	2.82	0.42
31:BL:6:LEU:HD12	31:BL:44:PRO:HD2	1.95	0.42
31:BL:82:LYS:HZ3	46:BZ:48:GLY:CA	1.89	0.42
31:BL:102:GLU:HB2	31:BL:116:ASN:ND2	2.34	0.42
32:BM:55:ASP:N	32:BM:58:ARG:CB	2.82	0.42
32:BM:91:THR:CG2	32:BM:92:ALA:N	2.82	0.42
33:BN:42:LYS:O	33:BN:46:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:57:ILE:HG13	33:BN:57:ILE:O	2.20	0.42
34:BO:81:VAL:HB	34:BO:140:LEU:CD1	2.45	0.42
34:BO:133:LYS:HD2	34:BO:133:LYS:C	2.40	0.42
35:BP:22:TRP:CE3	35:BP:50:VAL:C	2.93	0.42
36:BQ:42:ILE:CA	36:BQ:95:HIS:CE1	3.02	0.42
36:BQ:92:ARG:HB3	36:BQ:94:GLU:HB3	2.01	0.42
37:BR:15:LEU:CD1	37:BR:53:SER:HB2	2.43	0.42
37:BR:17:LEU:HD22	37:BR:17:LEU:N	2.34	0.42
37:BR:34:LEU:HB2	37:BR:61:THR:O	2.19	0.42
38:BS:49:ILE:CD1	38:BS:49:ILE:H	2.27	0.42
39:BT:59:TYR:CG	39:BT:60:LYS:N	2.86	0.42
39:BT:70:THR:CG2	39:BT:71:ALA:N	2.82	0.42
40:BU:17:LYS:HB2	40:BU:17:LYS:NZ	2.33	0.42
40:BU:109:LEU:HD23	40:BU:110:HIS:H	1.80	0.42
41:BV:62:LYS:HD2	41:BV:63:GLN:N	2.35	0.42
41:BV:118:PRO:HG2	41:BV:119:ASN:H	1.85	0.42
41:BV:126:ALA:CA	41:BV:146:LEU:CG	2.95	0.42
41:BV:135:GLU:CB	41:BV:136:LYS:HD2	2.50	0.42
41:BV:144:VAL:CG1	41:BV:145:GLU:N	2.82	0.42
42:B0:43:ARG:CZ	42:B0:44:ARG:N	2.83	0.42
44:BX:11:THR:CG2	44:BX:12:LYS:N	2.82	0.42
44:BX:45:LYS:HZ1	44:BX:46:THR:HA	1.84	0.42
45:BY:15:HIS:CD2	45:BY:24:ARG:CG	2.98	0.42
47:B9:30:ILE:HG23	47:B9:31:GLN:N	2.33	0.42
47:B9:47:LYS:HZ2	47:B9:48:ARG:H	1.66	0.42
1:AA:64:G:H5"	1:AA:97:G:OP2	2.19	0.42
1:AA:111:G:N3	1:AA:389:A:H5"	2.28	0.42
1:AA:169:C:O2'	1:AA:170:U:H5'	2.19	0.42
1:AA:500:G:P	1:AA:546:G:H1	2.05	0.42
1:AA:502:G:H2'	1:AA:503:C:H6	1.84	0.42
1:AA:975:A:H4'	1:AA:976:G:OP2	2.18	0.42
1:AA:987:G:H2'	1:AA:1014:A:C8	2.54	0.42
1:AA:1157:A:O4'	1:AA:1158:C:C2	2.72	0.42
1:AA:1181:G:O2'	1:AA:1182:G:H5'	2.19	0.42
1:AA:1221:G:N7	17:AS:79:HIS:CB	2.81	0.42
1:AA:1249:C:N1	9:AI:73:HIS:CE1	2.87	0.42
1:AA:1264:C:H2'	1:AA:1265:G:C8	2.54	0.42
1:AA:1288:A:O4'	1:AA:1353:G:H4'	2.19	0.42
1:AA:1299:A:C4'	13:AM:26:ILE:CG1	2.82	0.42
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.55	0.42
1:AA:1329:A:H2'	13:AM:90:ASN:HD21	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1346:A:H5'	9:AI:134:ARG:CZ	2.37	0.42
2:AT:37:ASP:O	2:AT:41:GLN:HG3	2.19	0.42
2:AT:254:THR:O	2:AT:255:LYS:HB2	2.19	0.42
2:AT:299:LEU:HD12	2:AT:299:LEU:HA	1.92	0.42
3:AB:16:LEU:C	3:AB:18:ALA:H	2.22	0.42
3:AB:67:PRO:HB2	3:AB:183:LEU:HD22	1.99	0.42
4:AC:41:THR:CG2	4:AC:42:PRO:N	2.77	0.42
5:AD:95:TYR:HD1	5:AD:102:GLU:OE1	2.02	0.42
6:AE:124:ILE:CG2	6:AE:125:ARG:N	2.82	0.42
8:AH:13:ILE:HB	8:AH:77:ARG:CZ	2.50	0.42
9:AI:18:VAL:HG21	9:AI:67:ARG:HB3	2.01	0.42
9:AI:21:VAL:CG1	9:AI:22:LYS:N	2.83	0.42
9:AI:92:HIS:HB2	9:AI:95:TYR:HD2	1.82	0.42
9:AI:106:LYS:CG	9:AI:107:ALA:N	2.82	0.42
10:AJ:27:THR:HB	10:AJ:88:LYS:CE	2.49	0.42
10:AJ:81:THR:O	10:AJ:81:THR:HG23	2.19	0.42
11:AK:90:THR:CG2	11:AK:91:LYS:N	2.82	0.42
11:AK:118:THR:HA	11:AK:119:PRO:HD3	1.78	0.42
13:AM:17:LEU:N	13:AM:17:LEU:CD1	2.82	0.42
17:AS:90:ILE:HA	17:AS:107:ILE:HG13	2.00	0.42
18:B3:166:A:C5'	41:BV:35:GLY:H	2.32	0.42
18:B3:263:U:H4'	26:BG:161:LEU:CD1	2.46	0.42
18:B3:700:A:C8	41:BV:78:TRP:NE1	2.63	0.42
18:B3:1055:G:OP1	28:BI:98:ARG:CG	2.59	0.42
18:B3:1103:C:HO2'	18:B3:1104:C:H5'	1.84	0.42
18:B3:1199:A:H2'	18:B3:1200:A:C8	2.55	0.42
18:B3:1689:A:C2	33:BN:128:THR:CA	3.02	0.42
18:B3:1739:G:O2'	18:B3:1740:U:H5'	2.18	0.42
18:B3:1894:C:N4	18:B3:1939:U:H2'	2.34	0.42
18:B3:2004:U:H2'	18:B3:2005:G:OP1	2.20	0.42
18:B3:2151:G:C4'	18:B3:2152:C:OP2	2.67	0.42
18:B3:2245:C:OP2	31:BL:27:TRP:CH2	2.72	0.42
18:B3:2335:C:H2'	18:B3:2336:G:C8	2.55	0.42
18:B3:2722:G:O5'	37:BR:94:TYR:CE2	2.68	0.42
18:B3:2820:A:H8	22:BC:101:LEU:N	2.17	0.42
20:BA:90:LEU:CD2	20:BA:123:LEU:CB	2.94	0.42
20:BA:100:ILE:CG2	20:BA:101:LYS:N	2.82	0.42
20:BA:109:ALA:HB2	20:BA:161:LYS:H	1.84	0.42
20:BA:162:VAL:CG1	20:BA:163:LEU:N	2.82	0.42
21:BB:2:ARG:O	21:BB:4:ILE:HD12	2.19	0.42
21:BB:4:ILE:CG2	21:BB:208:HIS:CD2	2.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:BB:226:ARG:CG	21:BB:227:GLY:N	2.82	0.42
22:BC:16:LEU:HB3	22:BC:17:PRO:CA	2.42	0.42
22:BC:83:VAL:O	22:BC:202:VAL:HG22	2.18	0.42
22:BC:143:ILE:HG23	22:BC:147:LEU:HD13	1.99	0.42
22:BC:211:ASN:CB	22:BC:350:LEU:N	2.83	0.42
22:BC:232:TRP:O	22:BC:232:TRP:CG	2.72	0.42
22:BC:248:VAL:CG1	22:BC:249:ALA:N	2.82	0.42
22:BC:295:THR:CG2	22:BC:296:SER:N	2.81	0.42
23:BD:7:VAL:CG1	23:BD:17:ASN:N	2.82	0.42
23:BD:61:ALA:HB2	23:BD:83:ARG:NH2	2.33	0.42
23:BD:97:ARG:HG2	23:BD:98:MET:N	2.34	0.42
23:BD:238:ALA:HA	23:BD:239:PRO:HD2	1.81	0.42
24:BE:21:ARG:HA	24:BE:21:ARG:CZ	2.49	0.42
24:BE:107:ARG:CB	24:BE:226:TYR:HE1	2.28	0.42
24:BE:123:GLU:CG	24:BE:124:GLU:N	2.83	0.42
24:BE:200:PHE:CD1	24:BE:202:GLY:N	2.80	0.42
25:BF:82:LEU:HD11	25:BF:188:ILE:HG12	2.01	0.42
25:BF:117:LYS:CD	25:BF:118:VAL:N	2.82	0.42
26:BG:115:VAL:CG2	26:BG:214:VAL:N	2.82	0.42
26:BG:203:ARG:CZ	26:BG:207:GLU:CB	2.97	0.42
26:BG:214:VAL:CG2	26:BG:215:SER:N	2.82	0.42
27:BH:46:THR:HA	27:BH:55:VAL:CB	2.48	0.42
27:BH:150:SER:O	27:BH:154:VAL:HG22	2.19	0.42
27:BH:163:GLN:C	27:BH:165:CYS:H	2.23	0.42
27:BH:165:CYS:O	27:BH:167:VAL:HG13	2.19	0.42
27:BH:165:CYS:CB	27:BH:178:GLY:HA2	2.50	0.42
28:BI:38:LYS:HD3	28:BI:40:LYS:CD	2.49	0.42
28:BI:82:ARG:HG3	28:BI:82:ARG:O	2.18	0.42
31:BL:47:ALA:HB3	31:BL:48:ARG:HH12	1.82	0.42
31:BL:79:THR:CG2	31:BL:80:TYR:N	2.83	0.42
32:BM:17:ARG:CZ	32:BM:17:ARG:N	2.83	0.42
32:BM:90:LYS:CG	32:BM:91:THR:N	2.83	0.42
33:BN:6:THR:CG2	33:BN:7:SER:N	2.82	0.42
33:BN:69:THR:CG2	33:BN:70:ALA:N	2.82	0.42
34:BO:45:ASN:CA	34:BO:48:VAL:HG12	2.50	0.42
34:BO:73:GLN:HE21	34:BO:73:GLN:HB2	1.55	0.42
36:BQ:63:VAL:HG23	36:BQ:63:VAL:O	2.18	0.42
36:BQ:85:LEU:N	36:BQ:85:LEU:CD1	2.83	0.42
40:BU:58:VAL:CG2	40:BU:103:LYS:HE2	2.49	0.42
41:BV:20:ARG:HA	41:BV:20:ARG:NH1	2.28	0.42
42:B0:41:VAL:CA	42:B0:44:ARG:HH21	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BY:31:LYS:N	45:BY:31:LYS:CD	2.83	0.42
46:BZ:8:LYS:CG	46:BZ:9:THR:N	2.80	0.42
46:BZ:37:GLN:HA	46:BZ:40:ARG:HG2	2.00	0.42
47:B9:22:ARG:NE	47:B9:22:ARG:N	2.68	0.42
47:B9:26:LYS:N	47:B9:28:LEU:HD12	2.34	0.42
47:B9:50:ALA:O	47:B9:53:ILE:HG22	2.19	0.42
1:AA:124:G:H1'	1:AA:290:C:H4'	1.01	0.42
1:AA:303:A:H1'	1:AA:556:C:H4'	2.00	0.42
1:AA:406:G:H2'	1:AA:407:G:H8	1.85	0.42
1:AA:449:C:H5"	5:AD:132:ARG:HD3	1.50	0.42
1:AA:499:A:N6	5:AD:20:GLU:O	2.51	0.42
1:AA:599:C:C5'	8:AH:121:SER:HB2	2.44	0.42
1:AA:951:G:C6	1:AA:1231:G:C6	3.07	0.42
1:AA:1053:G:O2'	1:AA:1199:U:H5	2.02	0.42
1:AA:1180:A:C5'	9:AI:117:ILE:HD11	2.40	0.42
1:AA:1186:G:H4'	9:AI:127:LYS:HE2	2.01	0.42
1:AA:1290:G:H4'	7:AG:108:LYS:HZ2	1.84	0.42
1:AA:1300:G:C5'	13:AM:30:TYR:CD2	3.01	0.42
1:AA:1300:G:O2'	1:AA:1301:U:C6	2.69	0.42
1:AA:1329:A:C1'	13:AM:90:ASN:HD22	2.32	0.42
3:AB:120:VAL:HG12	3:AB:142:VAL:HA	2.01	0.42
3:AB:171:LEU:HD23	3:AB:171:LEU:C	2.39	0.42
4:AC:69:THR:CG2	4:AC:70:LEU:N	2.82	0.42
5:AD:99:LEU:HD13	5:AD:99:LEU:C	2.40	0.42
5:AD:127:VAL:HG23	5:AD:128:LEU:N	2.34	0.42
7:AG:210:ILE:CD1	7:AG:210:ILE:N	2.82	0.42
8:AH:10:LEU:CB	8:AH:77:ARG:HD2	2.49	0.42
9:AI:49:GLU:HG3	9:AI:113:ARG:NH2	2.35	0.42
12:AL:56:LYS:NZ	12:AL:94:ASN:HD21	2.17	0.42
12:AL:57:LEU:HB2	12:AL:71:CYS:SG	2.59	0.42
13:AM:96:LYS:HB2	13:AM:96:LYS:HE3	1.85	0.42
18:B3:23:G:H1'	18:B3:520:A:N6	2.35	0.42
18:B3:68:U:C2	44:BX:57:VAL:HG23	2.54	0.42
18:B3:119:A:H2'	18:B3:120:A:H5"	2.02	0.42
18:B3:165:A:C5'	41:BV:31:ARG:N	2.55	0.42
18:B3:166:A:H62	41:BV:28:PRO:CA	2.32	0.42
18:B3:449:A:H5"	23:BD:195:ASN:OD1	2.19	0.42
18:B3:629:A:H8	42:B0:39:ASP:HB2	1.84	0.42
18:B3:710:G:O4'	34:BO:44:PHE:HE2	2.03	0.42
18:B3:906:C:P	18:B3:1329:A:H4'	2.48	0.42
18:B3:1150:A:H4'	18:B3:1151:G:OP2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1181:A:H2'	30:BK:104:ILE:O	2.18	0.42
18:B3:1286:A:OP2	25:BF:155:ILE:CG2	2.58	0.42
18:B3:1342:C:H42	23:BD:186:LEU:HB3	1.83	0.42
18:B3:1457:U:O2'	18:B3:1458:A:H5'	2.20	0.42
18:B3:1501:A:P	35:BP:37:ARG:HD3	2.60	0.42
18:B3:1516:C:H2'	18:B3:1517:U:C6	2.54	0.42
18:B3:1526:A:O4'	18:B3:1527:A:C5	2.72	0.42
18:B3:1529:G:C5'	21:BB:69:ARG:NH1	2.72	0.42
18:B3:1706:G:H1'	18:B3:1712:A:H61	1.85	0.42
18:B3:1735:C:H2'	18:B3:1736:A:C8	2.54	0.42
18:B3:1742:A:O5'	18:B3:2723:G:H4'	2.17	0.42
18:B3:1786:C:C5	18:B3:2883:A:H4'	2.50	0.42
18:B3:2214:A:O2'	20:BA:106:LYS:CB	2.57	0.42
18:B3:2258:A:H1'	18:B3:2259:C:OP2	2.19	0.42
18:B3:2382:A:N9	46:BZ:10:TYR:CD2	2.86	0.42
18:B3:2396:C:H2'	41:BV:46:LYS:HE2	1.98	0.42
18:B3:2459:G:O3'	46:BZ:66:LYS:HE3	2.19	0.42
19:B4:38:A:OP2	24:BE:155:THR:HG21	2.19	0.42
19:B4:50:G:H5"	24:BE:91:GLY:O	2.19	0.42
20:BA:15:GLU:O	20:BA:19:TYR:HD2	2.02	0.42
21:BB:111:ILE:CG2	21:BB:132:TYR:CB	2.93	0.42
22:BC:55:ILE:CG1	22:BC:56:VAL:N	2.82	0.42
22:BC:75:VAL:HG12	22:BC:324:LYS:HA	2.02	0.42
22:BC:176:HIS:CE1	22:BC:335:VAL:CG2	3.02	0.42
22:BC:189:GLU:O	22:BC:192:ASP:HB3	2.19	0.42
22:BC:304:ILE:CD1	22:BC:358:ILE:HD13	2.49	0.42
23:BD:25:PHE:CE1	23:BD:128:THR:HB	2.48	0.42
23:BD:76:VAL:CG1	23:BD:77:GLY:N	2.82	0.42
23:BD:160:LYS:HE2	23:BD:163:GLU:N	2.34	0.42
23:BD:171:VAL:CG2	23:BD:172:GLY:N	2.82	0.42
23:BD:205:LEU:CG	23:BD:206:VAL:H	2.15	0.42
24:BE:115:LEU:CD2	24:BE:116:ASP:N	2.81	0.42
25:BF:117:LYS:CE	25:BF:118:VAL:N	2.82	0.42
25:BF:177:ILE:CG2	25:BF:182:ASP:CB	2.94	0.42
26:BG:109:THR:CA	26:BG:118:GLY:HA3	2.50	0.42
26:BG:115:VAL:CG1	26:BG:213:LEU:HB3	2.48	0.42
26:BG:119:LYS:HD3	26:BG:119:LYS:N	2.34	0.42
27:BH:24:ILE:CG1	27:BH:25:VAL:N	2.82	0.42
27:BH:82:VAL:CG1	27:BH:83:THR:N	2.82	0.42
27:BH:153:ASP:HA	27:BH:156:GLN:OE1	2.20	0.42
28:BI:68:ALA:HB2	28:BI:158:LYS:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:23:GLY:H	29:BJ:64:ILE:CD1	2.19	0.42
30:BK:133:LEU:O	30:BK:137:GLN:HG3	2.18	0.42
31:BL:147:TYR:C	31:BL:150:ILE:HD12	2.40	0.42
31:BL:173:ILE:HD12	31:BL:173:ILE:C	2.40	0.42
32:BM:9:ASP:OD1	32:BM:117:VAL:HA	2.19	0.42
32:BM:52:LYS:HG3	32:BM:52:LYS:O	2.18	0.42
32:BM:79:PHE:H	32:BM:79:PHE:HD1	1.68	0.42
32:BM:88:SER:HA	32:BM:90:LYS:HZ2	1.85	0.42
34:BO:102:ALA:HB1	34:BO:124:LEU:CB	2.49	0.42
35:BP:37:ARG:HD2	35:BP:37:ARG:H	1.85	0.42
35:BP:40:ILE:CG2	35:BP:41:ARG:CZ	2.98	0.42
36:BQ:32:LYS:HZ3	36:BQ:97:LYS:HE2	1.83	0.42
37:BR:46:LEU:H	37:BR:46:LEU:CD1	2.32	0.42
37:BR:95:PHE:CD1	38:BS:21:PHE:CG	3.08	0.42
40:BU:33:ALA:CB	40:BU:104:LEU:CD2	2.95	0.42
41:BV:117:ILE:HG21	41:BV:137:ILE:HD11	2.00	0.42
41:BV:127:ARG:CG	41:BV:128:PHE:H	2.21	0.42
41:BV:135:GLU:HB3	41:BV:136:LYS:CD	2.50	0.42
42:B0:62:LYS:HD2	42:B0:62:LYS:O	2.20	0.42
42:B0:111:ARG:HE	42:B0:113:LYS:CD	2.33	0.42
43:BW:29:PRO:O	43:BW:33:LYS:HG2	2.20	0.42
43:BW:43:MET:CE	43:BW:43:MET:CA	2.95	0.42
47:B9:38:CYS:SG	47:B9:61:LYS:CD	3.07	0.42
47:B9:56:CYS:HA	47:B9:61:LYS:HD3	2.02	0.42
1:AA:119:A:H2	1:AA:238:G:C4	2.34	0.42
1:AA:120:A:C4	1:AA:122:G:C6	3.07	0.42
1:AA:552:U:P	12:AL:107:PHE:HA	2.60	0.42
1:AA:620:C:H3'	5:AD:143:ILE:CG1	2.49	0.42
1:AA:860:A:C4'	8:AH:18:LYS:NZ	2.81	0.42
1:AA:958:A:H2	17:AS:102:PHE:CD1	2.14	0.42
1:AA:1044:A:H2'	1:AA:1045:C:O4'	2.20	0.42
1:AA:1244:C:O2'	1:AA:1245:A:H5'	2.19	0.42
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.84	0.42
1:AA:1306:A:H2'	1:AA:1307:U:O4'	2.10	0.42
1:AA:1503:A:OP1	1:AA:1531:A:C1'	2.65	0.42
1:AA:1505:G:C8	1:AA:1506:U:C1'	3.02	0.42
2:AT:160:VAL:HG23	2:AT:212:GLY:O	2.20	0.42
2:AT:237:LYS:HA	2:AT:240:MET:HB2	2.01	0.42
2:AT:391:LYS:HA	2:AT:391:LYS:HD3	1.88	0.42
3:AB:47:ILE:O	3:AB:47:ILE:HG13	2.19	0.42
3:AB:174:TYR:CD1	3:AB:175:LEU:N	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:40:VAL:CG2	4:AC:41:THR:N	2.83	0.42
5:AD:87:SER:N	5:AD:93:LEU:CD1	2.82	0.42
5:AD:90:LYS:HZ1	6:AE:171:ALA:HB1	1.85	0.42
5:AD:96:VAL:CG1	5:AD:97:LEU:N	2.82	0.42
7:AG:82:ARG:NH1	7:AG:95:SER:HB2	2.34	0.42
7:AG:159:VAL:CG2	7:AG:160:ASP:N	2.83	0.42
8:AH:26:ILE:CG2	8:AH:27:ARG:N	2.82	0.42
11:AK:42:THR:CG2	11:AK:58:ALA:CB	2.91	0.42
13:AM:42:TYR:O	13:AM:46:VAL:HG23	2.20	0.42
16:AQ:108:VAL:HG12	16:AQ:109:HIS:N	2.34	0.42
18:B3:99:A:N1	40:BU:27:ARG:HD2	2.34	0.42
18:B3:155:C:H1'	31:BL:163:LEU:HD23	2.01	0.42
18:B3:218:C:H41	41:BV:54:LYS:HZ1	1.68	0.42
18:B3:286:U:H2'	18:B3:287:C:C6	2.54	0.42
18:B3:369:G:C2	18:B3:370:G:C8	3.07	0.42
18:B3:502:A:H5"	33:BN:10:PRO:CB	2.49	0.42
18:B3:728:C:H2'	18:B3:729:C:C6	2.54	0.42
18:B3:795:G:H22	18:B3:817:G:H2'	1.82	0.42
18:B3:960:G:C2	19:B4:68:G:OP1	2.73	0.42
18:B3:1056:U:H3'	28:BI:109:ASP:H	1.85	0.42
18:B3:1116:U:H1'	18:B3:1225:C:H3'	1.08	0.42
18:B3:1116:U:H3	18:B3:1246:A:H62	1.65	0.42
18:B3:1236:A:H2'	18:B3:1237:U:O4'	2.20	0.42
18:B3:1363:G:H2'	18:B3:1364:G:C8	2.54	0.42
18:B3:1708:C:C5'	35:BP:87:ARG:HD3	2.43	0.42
18:B3:1806:G:O4'	18:B3:2874:G:O2'	2.38	0.42
18:B3:1993:C:C4	18:B3:1994:A:C6	3.08	0.42
18:B3:2078:U:O2'	18:B3:2079:G:H5'	2.19	0.42
18:B3:2457:U:H4'	46:BZ:83:THR:N	2.34	0.42
18:B3:2627:G:H2'	18:B3:2628:U:C6	2.54	0.42
18:B3:2672:C:H5'	22:BC:31:PHE:CE1	2.55	0.42
18:B3:2694:A:C2	18:B3:2702:A:C4	3.07	0.42
19:B4:46:C:O2'	24:BE:152:ARG:HB2	1.89	0.42
19:B4:47:A:OP1	24:BE:151:GLN:OE1	2.38	0.42
21:BB:82:HIS:HB3	21:BB:83:THR:H	1.70	0.42
21:BB:215:HIS:CG	21:BB:216:GLN:N	2.88	0.42
22:BC:9:ARG:N	22:BC:9:ARG:CD	2.83	0.42
22:BC:18:ARG:NH1	22:BC:271:TYR:CE2	2.86	0.42
22:BC:83:VAL:CG1	22:BC:84:VAL:N	2.82	0.42
22:BC:166:ARG:CG	22:BC:167:LYS:N	2.82	0.42
22:BC:190:LYS:HA	22:BC:190:LYS:HD3	1.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:223:HIS:NE2	22:BC:269:ARG:CD	2.82	0.42
22:BC:243:ARG:N	22:BC:243:ARG:CD	2.82	0.42
23:BD:61:ALA:HB2	23:BD:83:ARG:HH22	1.84	0.42
24:BE:49:TYR:OH	24:BE:64:ILE:HG13	2.20	0.42
24:BE:55:PHE:CE1	24:BE:151:GLN:NE2	2.88	0.42
24:BE:211:LEU:O	24:BE:212:ALA:HB2	2.19	0.42
25:BF:105:LEU:HB3	25:BF:107:LEU:HD11	1.99	0.42
25:BF:174:LYS:CB	25:BF:198:ASN:HA	2.32	0.42
27:BH:20:ILE:HD12	27:BH:25:VAL:CG2	2.49	0.42
27:BH:140:VAL:CG2	27:BH:141:LYS:N	2.82	0.42
28:BI:44:ASP:O	28:BI:46:PHE:CD2	2.72	0.42
28:BI:70:ILE:CD1	28:BI:74:LYS:CD	2.95	0.42
28:BI:147:VAL:CG1	28:BI:148:VAL:N	2.82	0.42
29:BJ:28:ARG:CG	29:BJ:29:LEU:N	2.82	0.42
29:BJ:34:LYS:CG	29:BJ:35:VAL:N	2.82	0.42
31:BL:122:GLN:HB2	31:BL:127:LYS:HA	2.02	0.42
31:BL:148:ASN:O	31:BL:149:TRP:CG	2.72	0.42
33:BN:51:LEU:HD23	33:BN:51:LEU:C	2.38	0.42
33:BN:110:LYS:N	33:BN:110:LYS:HD2	2.34	0.42
34:BO:45:ASN:HA	34:BO:48:VAL:HG12	2.00	0.42
34:BO:104:LEU:CD2	34:BO:105:ARG:N	2.81	0.42
34:BO:116:LYS:CG	34:BO:117:ALA:N	2.80	0.42
35:BP:9:LEU:HD22	35:BP:12:SER:HB2	1.98	0.42
35:BP:41:ARG:HD3	35:BP:41:ARG:HA	1.25	0.42
40:BU:23:PRO:HD2	40:BU:26:GLN:HB2	1.98	0.42
40:BU:89:LYS:HE3	40:BU:89:LYS:N	2.35	0.42
40:BU:103:LYS:HD3	40:BU:104:LEU:N	2.35	0.42
40:BU:104:LEU:N	40:BU:104:LEU:HD23	2.35	0.42
41:BV:25:ARG:HE	41:BV:25:ARG:H	1.65	0.42
41:BV:86:ARG:CD	41:BV:86:ARG:N	2.82	0.42
41:BV:101:ILE:HG22	41:BV:103:THR:N	2.34	0.42
43:BW:7:VAL:CG1	43:BW:8:THR:N	2.82	0.42
43:BW:68:TYR:CD2	43:BW:69:ARG:HB2	2.52	0.42
44:BX:9:LEU:CD1	44:BX:53:CYS:SG	3.08	0.42
45:BY:18:CYS:SG	45:BY:38:TYR:CE2	3.09	0.42
45:BY:32:THR:O	45:BY:33:CYS:CB	2.68	0.42
46:BZ:26:GLN:HG3	46:BZ:26:GLN:O	2.20	0.42
1:AA:68:G:H5'	1:AA:172:A:C8	2.53	0.42
1:AA:132:C:O2'	1:AA:133:U:H5'	2.16	0.42
1:AA:160:A:H2'	1:AA:161:A:O4'	2.19	0.42
1:AA:190(D):U:H5'	16:AQ:137:ASN:HB3	1.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:252:U:O2'	1:AA:275:G:N2	2.52	0.42
1:AA:285:G:O2'	1:AA:286:G:H5'	2.19	0.42
1:AA:384:G:H2'	1:AA:385:C:C6	2.54	0.42
1:AA:430:A:H2'	1:AA:431:A:H5'	2.01	0.42
1:AA:753:A:H4'	15:AO:127:TYR:CE1	2.55	0.42
1:AA:877:C:C2'	8:AH:3:SER:CB	2.94	0.42
1:AA:1075:C:H3'	3:AB:103:PRO:HG2	1.63	0.42
1:AA:1145:C:O2'	1:AA:1146:A:H8	2.02	0.42
1:AA:1299:A:N6	13:AM:55:HIS:HD1	2.06	0.42
1:AA:1492:A:O2'	1:AA:1493:A:H5'	2.20	0.42
2:AT:717:PHE:HD2	2:AT:718:LEU:HD13	1.84	0.42
2:AT:744:TYR:CZ	18:B3:1171:A:N3	2.85	0.42
3:AB:76:SER:HA	3:AB:123:THR:HG22	2.02	0.42
3:AB:110:ILE:CG2	3:AB:111:THR:N	2.82	0.42
3:AB:139:ASN:CB	8:AH:69:ASN:OD1	2.68	0.42
5:AD:131:GLN:NE2	5:AD:131:GLN:HA	2.34	0.42
7:AG:195:GLU:HG2	7:AG:199:ASN:ND2	2.34	0.42
9:AI:12:LYS:CG	9:AI:13:LYS:N	2.82	0.42
9:AI:18:VAL:CG2	9:AI:67:ARG:CB	2.95	0.42
9:AI:21:VAL:HG12	9:AI:22:LYS:N	2.34	0.42
9:AI:58:LYS:HG3	9:AI:58:LYS:O	2.18	0.42
11:AK:29:VAL:CG1	11:AK:30:THR:N	2.82	0.42
13:AM:122:HIS:CE1	17:AS:119:PHE:HA	2.55	0.42
15:AO:73:ILE:CD1	15:AO:77:ASN:HD21	2.32	0.42
15:AO:97:VAL:HG11	15:AO:114:LEU:HB2	2.01	0.42
17:AS:58:LYS:CG	17:AS:59:LYS:N	2.83	0.42
17:AS:85:ILE:CG2	17:AS:116:LEU:CD1	2.97	0.42
18:B3:106:A:H2'	44:BX:60:GLU:HA	1.99	0.42
18:B3:179:C:P	45:BY:47:ASN:HB2	2.60	0.42
18:B3:281:U:O2	18:B3:369:G:C2	2.73	0.42
18:B3:360:A:H2'	18:B3:361:C:O4'	2.19	0.42
18:B3:493:U:H4'	33:BN:99:ALA:HB3	1.87	0.42
18:B3:553:G:H5"	42:B0:69:SER:OG	2.18	0.42
18:B3:594:C:O2'	18:B3:595:U:H5'	2.20	0.42
18:B3:598:C:C4	18:B3:599:G:N7	2.87	0.42
18:B3:766:A:OP1	23:BD:74:PRO:CB	2.66	0.42
18:B3:811:C:H2'	18:B3:812:A:C8	2.55	0.42
18:B3:963:C:H2'	18:B3:964:G:C8	2.54	0.42
18:B3:1155:G:H2'	18:B3:1156:C:C6	2.55	0.42
18:B3:1241:G:O2'	32:BM:85:GLY:HA3	2.19	0.42
18:B3:1280:A:H8	18:B3:1280:A:O5'	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1286:A:P	25:BF:155:ILE:CA	3.07	0.42
18:B3:1298:U:H2'	18:B3:1299:G:C8	2.54	0.42
18:B3:1315:G:O3'	42:B0:104:ASN:N	2.48	0.42
18:B3:1391:G:H2'	18:B3:1392:A:H5'	2.01	0.42
18:B3:1674:C:OP2	39:BT:110:ASN:C	2.58	0.42
18:B3:1855:G:O6	21:BB:151:SER:N	2.51	0.42
18:B3:1869:A:H1'	21:BB:10:GLY:CA	2.49	0.42
18:B3:2253:G:N3	18:B3:2254:G:C8	2.88	0.42
18:B3:2559:C:C1'	18:B3:2799:A:O4'	2.67	0.42
18:B3:2748:G:H4'	18:B3:2749:U:C5'	2.50	0.42
18:B3:2763:G:C4'	37:BR:14:SER:CB	2.71	0.42
18:B3:2826:G:C1'	22:BC:124:SER:CB	2.98	0.42
19:B4:36:C:N1	24:BE:181:PRO:CB	2.77	0.42
19:B4:68:G:H4'	24:BE:13:SER:HB3	2.02	0.42
19:B4:98:C:H4'	25:BF:222:PHE:CE2	2.54	0.42
21:BB:38:GLY:HA2	21:BB:90:GLY:CA	2.32	0.42
21:BB:111:ILE:CG2	21:BB:167:VAL:N	2.83	0.42
21:BB:124:ALA:O	21:BB:125:LEU:HG	2.20	0.42
22:BC:173:LYS:CE	22:BC:174:LYS:N	2.82	0.42
22:BC:226:GLU:HB2	22:BC:269:ARG:CD	2.49	0.42
22:BC:240:LYS:HB2	22:BC:241:THR:H	1.56	0.42
22:BC:247:LYS:CD	22:BC:247:LYS:N	2.83	0.42
23:BD:34:VAL:HG23	23:BD:35:HIS:N	2.34	0.42
23:BD:160:LYS:CE	23:BD:163:GLU:H	2.33	0.42
24:BE:65:ILE:HG22	24:BE:66:SER:O	2.19	0.42
24:BE:113:LEU:CD1	24:BE:113:LEU:N	2.83	0.42
24:BE:133:GLU:CG	24:BE:134:ALA:N	2.83	0.42
24:BE:135:VAL:HG12	24:BE:136:GLU:N	2.34	0.42
25:BF:94:ILE:CB	25:BF:95:PRO:HA	2.47	0.42
25:BF:174:LYS:HB2	25:BF:198:ASN:HD22	1.84	0.42
26:BG:156:VAL:CG1	26:BG:157:ASP:N	2.82	0.42
26:BG:165:LEU:HB2	26:BG:166:PRO:HD3	2.01	0.42
27:BH:27:VAL:CA	27:BH:33:THR:HG23	2.50	0.42
27:BH:129:ARG:H	27:BH:157:ASN:HD22	1.68	0.42
28:BI:21:ARG:HG2	28:BI:21:ARG:HH11	1.83	0.42
29:BJ:8:MET:HG3	29:BJ:9:ARG:H	1.82	0.42
31:BL:119:TRP:C	31:BL:119:TRP:CE3	2.93	0.42
31:BL:147:TYR:O	31:BL:147:TYR:CG	2.73	0.42
33:BN:39:GLU:HG3	33:BN:41:THR:C	2.40	0.42
33:BN:149:VAL:HG23	33:BN:150:THR:N	2.34	0.42
35:BP:11:ALA:HB1	35:BP:16:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BP:56:VAL:CG1	35:BP:57:HIS:N	2.82	0.42
35:BP:134:LYS:O	35:BP:138:VAL:HG23	2.19	0.42
36:BQ:64:VAL:HG23	36:BQ:72:VAL:HG22	2.01	0.42
40:BU:27:ARG:HG2	40:BU:28:ARG:N	2.32	0.42
40:BU:108:LYS:HD3	40:BU:109:LEU:N	2.34	0.42
41:BV:69:LYS:HE3	41:BV:69:LYS:C	2.40	0.42
41:BV:69:LYS:C	41:BV:108:TYR:HB3	2.39	0.42
43:BW:61:ARG:CG	43:BW:62:GLY:N	2.82	0.42
46:BZ:65:LYS:N	46:BZ:65:LYS:CD	2.83	0.42
1:AA:99:C:H1'	1:AA:102:G:C5	2.53	0.42
1:AA:131:C:H4'	1:AA:264:U:C2'	2.49	0.42
1:AA:265:G:C4'	16:AQ:130:ILE:O	2.67	0.42
1:AA:298:A:C1'	6:AE:196:TYR:CZ	2.94	0.42
1:AA:314:C:O2'	1:AA:315:A:H5'	2.20	0.42
1:AA:523:A:C6	12:AL:116:ASP:OD2	2.73	0.42
1:AA:642:A:H1'	8:AH:105:THR:O	2.20	0.42
1:AA:665:A:H2'	1:AA:725:G:N2	2.34	0.42
1:AA:860:A:H5'	3:AB:133:LYS:HZ1	1.83	0.42
1:AA:978:A:H2	17:AS:82:ASN:O	2.02	0.42
1:AA:1291:G:O2'	9:AI:41:GLU:HG2	2.19	0.42
1:AA:1297:C:O3'	13:AM:55:HIS:O	2.36	0.42
1:AA:1341:U:H6	9:AI:141:TYR:CE1	2.38	0.42
1:AA:1369:C:P	9:AI:125:PRO:HA	2.59	0.42
2:AT:501:LEU:HB2	12:AL:99:ASN:HB2	2.01	0.42
3:AB:68:ASN:HB3	3:AB:69:PRO:HD2	2.02	0.42
4:AC:31:GLU:OE2	4:AC:51:ALA:HB2	2.20	0.42
4:AC:49:ILE:HD11	4:AC:57:VAL:HG11	2.02	0.42
5:AD:52:ILE:O	5:AD:52:ILE:HG23	2.18	0.42
5:AD:118:LEU:CD1	5:AD:164:PHE:CZ	3.03	0.42
5:AD:129:ILE:HG23	5:AD:130:THR:N	2.35	0.42
5:AD:136:VAL:HG21	5:AD:141:VAL:HG21	2.02	0.42
6:AE:133:LEU:HD13	6:AE:134:SER:CB	2.48	0.42
9:AI:9:PHE:CD2	9:AI:10:GLY:N	2.88	0.42
9:AI:30:VAL:CG1	9:AI:38:VAL:CG2	2.95	0.42
9:AI:88:LEU:CD2	9:AI:104:LEU:CD2	2.97	0.42
9:AI:89:VAL:CG1	9:AI:90:ALA:N	2.82	0.42
9:AI:97:ASP:CA	9:AI:102:ASN:H	2.31	0.42
10:AJ:31:VAL:O	10:AJ:35:GLU:HG2	2.20	0.42
10:AJ:31:VAL:CG1	10:AJ:87:HIS:CE1	3.03	0.42
11:AK:26:PHE:HD1	11:AK:41:VAL:HG12	1.81	0.42
12:AL:40:SER:HB3	12:AL:122:PHE:CE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:89:GLN:HG3	13:AM:110:ARG:N	2.35	0.42
15:AO:112:PHE:O	15:AO:115:ILE:HB	2.20	0.42
17:AS:124:THR:HG22	17:AS:126:VAL:HG22	2.00	0.42
18:B3:552:A:H3'	18:B3:553:G:C5'	2.49	0.42
18:B3:763:C:O3'	23:BD:85:GLY:HA3	2.20	0.42
18:B3:919:U:C3'	41:BV:39:HIS:O	2.63	0.42
18:B3:946:C:H2'	18:B3:947:U:H6	1.85	0.42
18:B3:1092:A:H2'	18:B3:1093:G:C8	2.54	0.42
18:B3:1139:U:H4'	27:BH:62:ARG:CD	2.49	0.42
18:B3:1184:A:C1'	30:BK:86:LYS:CG	2.93	0.42
18:B3:1226:G:C2'	32:BM:132:ARG:NH1	2.30	0.42
18:B3:1359:U:H3'	23:BD:91:ASN:C	2.40	0.42
18:B3:1379:A:O2'	18:B3:1380:U:H5"	2.19	0.42
18:B3:1381:A:N1	43:BW:63:VAL:HG11	2.34	0.42
18:B3:1447:U:C4	39:BT:70:THR:OG1	2.63	0.42
18:B3:1609:C:H2'	18:B3:1610:G:H8	1.83	0.42
18:B3:1654:U:H3	47:B9:50:ALA:HB3	1.81	0.42
18:B3:1673:U:O5'	39:BT:110:ASN:C	2.58	0.42
18:B3:1789:G:C5'	18:B3:2880:A:C5	3.03	0.42
18:B3:1852:A:H4'	21:BB:236:LEU:CD2	2.32	0.42
18:B3:2325:C:H2'	18:B3:2326:U:C6	2.55	0.42
18:B3:2419:U:H5"	18:B3:2420:G:C5'	2.48	0.42
18:B3:2654:C:C5	22:BC:258:HIS:CB	2.85	0.42
18:B3:2657:G:H4'	22:BC:20:ARG:NE	2.33	0.42
18:B3:2822:C:H5"	22:BC:133:SER:CB	2.49	0.42
18:B3:2890:A:N6	38:BS:56:ARG:N	2.67	0.42
20:BA:9:VAL:O	20:BA:12:HIS:HB3	2.19	0.42
20:BA:185:MET:O	20:BA:189:PHE:HD1	2.03	0.42
21:BB:43:ILE:CD1	21:BB:71:ARG:HH22	2.32	0.42
21:BB:67:LYS:CG	21:BB:73:GLU:N	2.79	0.42
21:BB:177:PRO:HG3	47:B9:22:ARG:HH12	1.70	0.42
21:BB:191:LYS:HG3	21:BB:193:ASN:HD21	1.80	0.42
21:BB:203:MET:HG3	21:BB:204:ASN:H	1.84	0.42
22:BC:12:HIS:NE2	22:BC:15:PHE:CE1	2.83	0.42
22:BC:280:LYS:H	22:BC:324:LYS:NZ	2.17	0.42
23:BD:57:HIS:O	23:BD:59:THR:HG23	2.20	0.42
23:BD:229:VAL:CG1	23:BD:230:ALA:N	2.83	0.42
24:BE:41:LYS:CB	24:BE:49:TYR:CD2	3.03	0.42
24:BE:159:VAL:HB	24:BE:160:PHE:CZ	2.55	0.42
25:BF:93:LYS:C	25:BF:94:ILE:HG23	2.40	0.42
25:BF:136:GLY:O	25:BF:138:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:239:VAL:CG1	25:BF:240:LYS:N	2.82	0.42
26:BG:211:ALA:HA	26:BG:214:VAL:CG2	2.50	0.42
27:BH:42:ASP:OD1	32:BM:124:ARG:HA	2.16	0.42
27:BH:66:ALA:O	27:BH:67:ALA:HB2	2.20	0.42
27:BH:69:ARG:O	27:BH:72:LYS:HB2	2.19	0.42
29:BJ:36:LEU:CD2	29:BJ:67:HIS:NE2	2.82	0.42
29:BJ:136:ARG:HA	29:BJ:139:ARG:NH2	2.35	0.42
31:BL:20:PHE:CD1	31:BL:21:LEU:N	2.88	0.42
31:BL:161:ARG:HG2	31:BL:166:THR:HG23	1.96	0.42
31:BL:186:ARG:CG	31:BL:187:ARG:N	2.83	0.42
32:BM:75:PRO:O	32:BM:79:PHE:HD1	2.03	0.42
32:BM:103:VAL:O	32:BM:103:VAL:HG23	2.20	0.42
33:BN:116:ILE:N	33:BN:116:ILE:CD1	2.82	0.42
35:BP:99:ARG:HH22	35:BP:100:VAL:HG13	1.84	0.42
36:BQ:79:MET:HA	36:BQ:84:TYR:O	2.20	0.42
37:BR:16:GLY:O	37:BR:17:LEU:HD22	2.20	0.42
38:BS:23:ARG:NE	38:BS:28:ILE:HG13	2.35	0.42
39:BT:109:VAL:HG23	39:BT:123:VAL:CG2	2.48	0.42
39:BT:132:LEU:CD2	39:BT:132:LEU:N	2.82	0.42
40:BU:45:ILE:CD1	40:BU:46:LYS:N	2.82	0.42
40:BU:50:ILE:CG2	40:BU:70:ILE:HD12	2.49	0.42
40:BU:100:HIS:CD2	40:BU:104:LEU:CD1	2.98	0.42
41:BV:23:LYS:CD	41:BV:24:HIS:N	2.83	0.42
41:BV:69:LYS:CB	41:BV:70:PRO:CA	2.96	0.42
45:BY:45:SER:O	45:BY:46:TYR:CB	2.68	0.42
46:BZ:17:ARG:CG	46:BZ:18:LYS:H	2.19	0.42
46:BZ:20:THR:CG2	46:BZ:21:GLN:N	2.81	0.42
47:B9:38:CYS:CB	47:B9:41:CYS:SG	3.06	0.42
47:B9:56:CYS:CB	47:B9:61:LYS:HD2	2.37	0.42
47:B9:70:VAL:CG1	47:B9:71:SER:N	2.82	0.42
1:AA:131:C:C2'	1:AA:263:A:O2'	2.67	0.42
1:AA:362:G:C5'	12:AL:77:ILE:O	2.67	0.42
1:AA:402:G:C4	1:AA:620:C:N3	2.88	0.42
1:AA:499:A:O2'	1:AA:500:G:C4'	2.67	0.42
1:AA:562:C:O3'	12:AL:32:ARG:NH1	2.53	0.42
1:AA:620:C:O5'	5:AD:129:ILE:CD1	2.59	0.42
1:AA:825:G:H2'	1:AA:826:C:C6	2.53	0.42
1:AA:934:C:N4	7:AG:76:TYR:HE1	2.17	0.42
1:AA:942:G:C2	1:AA:943:U:C6	3.07	0.42
1:AA:1094:G:OP2	1:AA:1095:U:C5	2.73	0.42
1:AA:1263:C:H2'	1:AA:1264:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1450:U:H2'	1:AA:1452:C:C5	2.54	0.42
2:AT:137:VAL:HG11	18:B3:2697:A:P	2.59	0.42
2:AT:484:SER:O	2:AT:533:THR:HG21	2.20	0.42
2:AT:836:GLN:HE21	2:AT:836:GLN:N	2.16	0.42
3:AB:135:ALA:CA	3:AB:138:VAL:HG12	2.48	0.42
4:AC:98:VAL:CG2	4:AC:99:ALA:N	2.82	0.42
4:AC:155:PHE:HD2	4:AC:157:ILE:HB	1.85	0.42
5:AD:63:ASP:O	5:AD:67:PRO:HD2	2.19	0.42
5:AD:85:VAL:CG1	5:AD:86:LEU:N	2.83	0.42
5:AD:90:LYS:O	5:AD:91:LYS:HB2	2.20	0.42
5:AD:100:LYS:HB3	5:AD:191:ALA:O	2.19	0.42
7:AG:173:LEU:CD1	7:AG:209:ALA:HB1	2.48	0.42
8:AH:40:MET:SD	8:AH:45:TYR:CB	3.07	0.42
8:AH:76:PRO:CG	8:AH:129:TYR:CD1	3.03	0.42
9:AI:33:SER:HB3	9:AI:37:LEU:CG	2.50	0.42
9:AI:35:ILE:CG2	9:AI:36:THR:N	2.82	0.42
9:AI:89:VAL:N	9:AI:96:VAL:CG2	2.82	0.42
17:AS:107:ILE:CB	17:AS:111:MET:SD	3.07	0.42
18:B3:170:U:C4'	31:BL:82:LYS:CD	2.71	0.42
18:B3:288:A:N1	18:B3:364:C:N3	2.67	0.42
18:B3:487:G:C5'	40:BU:90:VAL:CB	2.87	0.42
18:B3:677:C:O2'	23:BD:256:LYS:CB	2.63	0.42
18:B3:707:C:H41	34:BO:72:LYS:HZ1	1.68	0.42
18:B3:1053:G:O2'	18:B3:1054:G:H5'	2.19	0.42
18:B3:1180:C:H2'	30:BK:106:LEU:HB3	2.02	0.42
18:B3:1235:G:C5	32:BM:69:PRO:HD3	2.49	0.42
18:B3:1315:G:H4'	42:B0:103:LYS:CE	2.36	0.42
18:B3:1449:G:C5'	39:BT:110:ASN:HD22	2.05	0.42
18:B3:1627:G:O2'	18:B3:1628:G:H5'	2.20	0.42
18:B3:1665:G:O2'	18:B3:1666:C:H5'	2.20	0.42
18:B3:1852:A:O2'	21:BB:237:ILE:CD1	2.67	0.42
18:B3:2135:A:O2'	18:B3:2136:G:H5'	2.20	0.42
18:B3:2413:A:O2'	24:BE:174:PRO:CA	2.68	0.42
18:B3:2430:A:N6	18:B3:2460:A:C2	2.87	0.42
18:B3:2579:G:P	18:B3:2680:A:C5'	3.05	0.42
18:B3:2671:U:P	22:BC:178:ALA:HA	2.59	0.42
18:B3:2734:G:O5'	35:BP:79:LYS:HD3	2.19	0.42
18:B3:2762:C:C4'	37:BR:16:GLY:O	2.67	0.42
18:B3:2795:C:O2'	27:BH:156:GLN:NE2	2.53	0.42
19:B4:39:U:H3'	19:B4:40:C:H5"	2.01	0.42
19:B4:52:A:H2'	19:B4:53:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:B4:97:U:C2	25:BF:220:LYS:CE	2.91	0.42
20:BA:5:THR:HG22	20:BA:8:GLN:HG3	1.94	0.42
20:BA:30:GLU:CG	20:BA:209:SER:HB2	2.50	0.42
20:BA:178:VAL:HG23	20:BA:179:LEU:N	2.34	0.42
21:BB:50:ASP:OD2	21:BB:56:PRO:HA	2.20	0.42
21:BB:226:ARG:CD	21:BB:227:GLY:N	2.82	0.42
22:BC:46:LEU:HD12	22:BC:47:GLY:N	2.33	0.42
22:BC:89:VAL:CG2	22:BC:91:TYR:CE2	3.00	0.42
22:BC:93:GLU:HG2	22:BC:94:THR:O	2.19	0.42
22:BC:105:TRP:CE2	22:BC:138:GLN:HB3	2.55	0.42
22:BC:237:LEU:CD2	22:BC:237:LEU:N	2.83	0.42
22:BC:240:LYS:C	22:BC:242:HIS:H	2.23	0.42
22:BC:277:ILE:CG2	22:BC:278:ASN:N	2.82	0.42
22:BC:324:LYS:HE3	22:BC:324:LYS:C	2.40	0.42
23:BD:5:VAL:CG2	23:BD:150:VAL:CG1	2.94	0.42
23:BD:11:THR:CG2	23:BD:12:GLY:N	2.82	0.42
23:BD:205:LEU:CG	23:BD:206:VAL:N	2.80	0.42
23:BD:206:VAL:HG12	23:BD:207:VAL:O	2.20	0.42
24:BE:34:LYS:HD3	24:BE:34:LYS:C	2.41	0.42
24:BE:42:ALA:CA	24:BE:49:TYR:CD1	3.01	0.42
25:BF:88:ILE:HG12	25:BF:132:TYR:O	2.20	0.42
25:BF:116:VAL:HG11	25:BF:122:THR:CG2	2.50	0.42
26:BG:203:ARG:HD3	26:BG:210:LEU:CG	2.48	0.42
27:BH:61:GLY:C	27:BH:63:LYS:HE3	2.40	0.42
27:BH:97:PHE:CE2	27:BH:118:LEU:O	2.72	0.42
28:BI:57:LEU:N	28:BI:57:LEU:CD2	2.83	0.42
29:BJ:70:VAL:HG23	29:BJ:71:ARG:N	2.35	0.42
30:BK:59:THR:HG23	30:BK:59:THR:O	2.19	0.42
31:BL:77:GLY:O	31:BL:78:ALA:HB3	2.19	0.42
31:BL:88:VAL:CG1	31:BL:89:ASN:H	2.32	0.42
32:BM:13:HIS:CD2	32:BM:121:GLN:CG	2.99	0.42
32:BM:139:LYS:HD3	32:BM:139:LYS:C	2.40	0.42
34:BO:41:ASP:CB	34:BO:133:LYS:HG2	2.14	0.42
35:BP:41:ARG:HH11	35:BP:41:ARG:N	2.17	0.42
35:BP:51:LYS:CG	35:BP:52:LYS:N	2.82	0.42
36:BQ:33:VAL:CG1	36:BQ:34:TYR:N	2.83	0.42
39:BT:59:TYR:CZ	44:BX:55:LEU:HD11	2.51	0.42
39:BT:109:VAL:HB	39:BT:123:VAL:CG2	2.28	0.42
40:BU:50:ILE:HD12	40:BU:101:PRO:CG	2.47	0.42
40:BU:74:TYR:HB3	40:BU:79:ALA:O	2.20	0.42
41:BV:7:THR:CG2	41:BV:8:ARG:N	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:44:MET:O	41:BV:47:TYR:CE1	2.73	0.42
41:BV:69:LYS:N	41:BV:69:LYS:CE	2.83	0.42
43:BW:25:LYS:O	43:BW:63:VAL:HG11	2.20	0.42
43:BW:32:VAL:CG1	43:BW:33:LYS:N	2.82	0.42
43:BW:48:VAL:HG13	43:BW:50:LEU:HD23	1.99	0.42
44:BX:45:LYS:NZ	44:BX:46:THR:HA	2.35	0.42
47:B9:60:LYS:HD3	47:B9:60:LYS:H	1.83	0.42
1:AA:21:G:H5"	1:AA:884:U:O4'	2.17	0.42
1:AA:145:G:O2'	1:AA:146:G:H5'	2.20	0.42
1:AA:254:G:O2'	1:AA:255:G:H5'	2.20	0.42
1:AA:320:C:C1'	1:AA:1435:G:C1'	2.88	0.42
1:AA:522:C:O2'	1:AA:523:A:H5'	2.20	0.42
1:AA:553:A:OP1	12:AL:122:PHE:CD2	2.67	0.42
1:AA:636:U:H2'	1:AA:637:G:C8	2.55	0.42
1:AA:676:A:H5'	11:AK:120:VAL:HB	1.74	0.42
1:AA:754:C:C1'	15:AO:127:TYR:CZ	3.02	0.42
1:AA:1071:C:P	6:AE:90:ARG:H	2.43	0.42
1:AA:1145:C:O2'	1:AA:1146:A:C8	2.73	0.42
1:AA:1152:A:O2'	1:AA:1153:C:H5'	2.19	0.42
1:AA:1298:C:H42	7:AG:184:ARG:CD	2.27	0.42
1:AA:1302:U:P	13:AM:54:LEU:CD2	2.99	0.42
1:AA:1408:A:O5'	18:B3:1960:A:P	2.77	0.42
3:AB:23:LEU:O	3:AB:47:ILE:HG12	2.19	0.42
3:AB:55:LYS:HA	3:AB:55:LYS:CE	2.38	0.42
3:AB:85:VAL:O	3:AB:89:ALA:HB2	2.20	0.42
4:AC:85:LEU:HD13	4:AC:85:LEU:C	2.40	0.42
4:AC:164:ASN:HB3	4:AC:192:ALA:HB3	2.02	0.42
5:AD:133:HIS:HB3	5:AD:160:PRO:HG3	2.02	0.42
6:AE:156:LYS:HD3	8:AH:95:ALA:HB1	2.02	0.42
6:AE:165:THR:HB	6:AE:200:ASN:ND2	2.35	0.42
8:AH:67:ARG:HG2	8:AH:73:VAL:HG22	2.02	0.42
9:AI:97:ASP:HA	9:AI:102:ASN:CA	2.50	0.42
11:AK:32:LEU:N	11:AK:32:LEU:CD2	2.83	0.42
13:AM:17:LEU:HA	13:AM:70:VAL:HG22	2.00	0.42
13:AM:56:LYS:HE3	13:AM:60:GLU:O	2.18	0.42
13:AM:72:ILE:CG2	13:AM:73:MET:N	2.82	0.42
16:AQ:81:ARG:CG	16:AQ:109:HIS:CE1	3.03	0.42
17:AS:83:MET:SD	17:AS:89:MET:CE	3.07	0.42
18:B3:67:A:H5"	18:B3:68:U:H3'	2.02	0.42
18:B3:81:G:OP2	40:BU:72:SER:C	2.55	0.42
18:B3:99:A:C1'	40:BU:75:ARG:CZ	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:676:C:C2	23:BD:231:SER:O	2.72	0.42
18:B3:697:G:H3'	41:BV:112:LEU:HD11	1.70	0.42
18:B3:706:G:C2	34:BO:72:LYS:HZ3	1.61	0.42
18:B3:846:A:O2'	18:B3:847:C:H5'	2.19	0.42
18:B3:947:U:H2'	18:B3:948:G:C8	2.54	0.42
18:B3:1067:A:H4'	25:BF:94:ILE:HG23	1.99	0.42
18:B3:1168:C:H2'	18:B3:1169:U:O4'	2.19	0.42
18:B3:1414:A:N3	45:BY:11:HIS:CG	2.87	0.42
18:B3:2133:U:H4'	18:B3:2134:G:O4'	2.18	0.42
18:B3:2336:G:O5'	29:BJ:103:PHE:CE2	2.73	0.42
18:B3:2346:C:H1'	29:BJ:66:VAL:H	0.38	0.42
18:B3:2633:A:OP1	21:BB:212:GLY:O	2.38	0.42
18:B3:2796:U:C5'	27:BH:129:ARG:HH11	2.31	0.42
19:B4:11:A:C5	24:BE:16:PHE:N	2.88	0.42
20:BA:57:ASN:HD22	20:BA:168:ALA:HB3	1.85	0.42
20:BA:123:LEU:N	20:BA:123:LEU:CD2	2.83	0.42
21:BB:177:PRO:HD3	47:B9:24:GLN:HG3	1.30	0.42
21:BB:204:ASN:CB	21:BB:212:GLY:N	2.81	0.42
22:BC:26:ALA:HB3	22:BC:217:ILE:HG12	2.02	0.42
22:BC:40:VAL:CG1	22:BC:41:ALA:N	2.83	0.42
22:BC:69:ARG:CD	37:BR:89:ASP:CG	2.79	0.42
22:BC:116:ARG:O	22:BC:117:PHE:CG	2.73	0.42
22:BC:147:LEU:HD12	22:BC:147:LEU:N	2.34	0.42
22:BC:186:SER:O	22:BC:187:ILE:HG12	2.20	0.42
22:BC:186:SER:O	22:BC:187:ILE:HD13	2.20	0.42
23:BD:27:ALA:HB3	23:BD:126:ALA:HB2	1.99	0.42
23:BD:112:VAL:HG11	23:BD:117:LYS:CE	2.50	0.42
23:BD:137:ARG:CZ	23:BD:137:ARG:N	2.83	0.42
23:BD:177:LEU:HA	23:BD:180:VAL:HG23	2.02	0.42
24:BE:65:ILE:CD1	24:BE:75:LEU:N	2.80	0.42
24:BE:218:ARG:O	24:BE:219:PHE:CD2	2.72	0.42
26:BG:211:ALA:CA	26:BG:214:VAL:HG22	2.50	0.42
27:BH:27:VAL:CG1	27:BH:28:VAL:N	2.79	0.42
27:BH:167:VAL:HG21	27:BH:170:LYS:CE	2.48	0.42
28:BI:82:ARG:HB2	28:BI:82:ARG:CZ	2.50	0.42
28:BI:125:LEU:N	28:BI:125:LEU:CD1	2.83	0.42
29:BJ:146:THR:CG2	29:BJ:147:VAL:N	2.83	0.42
31:BL:35:ILE:CG2	31:BL:108:ARG:HE	2.32	0.42
31:BL:141:ILE:CG2	31:BL:142:ARG:N	2.82	0.42
32:BM:137:LEU:CD1	32:BM:138:GLY:N	2.83	0.42
33:BN:25:PHE:CG	33:BN:120:GLN:CG	3.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:28:THR:CG2	33:BN:29:ARG:N	2.83	0.42
33:BN:81:ARG:CZ	33:BN:83:PRO:HD3	2.50	0.42
33:BN:106:LEU:HD22	33:BN:106:LEU:C	2.40	0.42
35:BP:24:ASP:CG	35:BP:27:GLU:HB2	2.40	0.42
35:BP:81:LYS:N	35:BP:81:LYS:CE	2.82	0.42
36:BQ:18:ASP:HB2	36:BQ:20:ARG:HH21	1.85	0.42
36:BQ:42:ILE:HG23	36:BQ:58:GLN:HA	2.02	0.42
37:BR:28:ASN:CB	37:BR:102:ILE:CD1	2.95	0.42
39:BT:62:ILE:O	39:BT:83:PHE:CE2	2.73	0.42
39:BT:129:TYR:CD1	39:BT:130:ASP:O	2.73	0.42
41:BV:74:LEU:O	41:BV:117:ILE:HD11	2.20	0.42
41:BV:97:THR:HG21	41:BV:124:VAL:CG1	2.50	0.42
41:BV:99:PRO:HB3	41:BV:104:LEU:HD11	2.02	0.42
42:B0:83:GLU:CD	42:B0:83:GLU:H	2.22	0.42
43:BW:32:VAL:C	43:BW:35:ILE:HG13	2.40	0.42
45:BY:30:LYS:CD	45:BY:31:LYS:N	2.83	0.42
47:B9:32:GLN:CG	47:B9:69:THR:N	2.82	0.42
47:B9:34:ALA:HB3	47:B9:36:TYR:CE2	2.55	0.42
47:B9:48:ARG:N	47:B9:48:ARG:CD	2.82	0.42
1:AA:16:A:C2	1:AA:919:A:N1	2.88	0.41
1:AA:25:C:OP2	12:AL:39:LYS:HE2	2.16	0.41
1:AA:45:U:OP1	1:AA:308:C:H5"	2.17	0.41
1:AA:58:C:O2'	1:AA:388:G:O6	2.08	0.41
1:AA:400:C:C3'	5:AD:77:ILE:HG21	2.14	0.41
1:AA:677:U:C2	11:AK:125:THR:O	2.73	0.41
1:AA:678:U:H5'	11:AK:127:LYS:CG	2.50	0.41
1:AA:736:C:H2'	1:AA:737:A:H8	1.83	0.41
1:AA:860:A:H4'	8:AH:18:LYS:NZ	2.35	0.41
1:AA:1041:A:H2'	1:AA:1042:G:C8	2.55	0.41
1:AA:1195:C:H2'	1:AA:1197:G:H5'	2.02	0.41
1:AA:1298:C:N4	7:AG:184:ARG:HD3	2.27	0.41
1:AA:1426:C:H2'	1:AA:1427:U:H6	1.85	0.41
2:AT:464:LEU:HD22	2:AT:510:ARG:CA	2.50	0.41
2:AT:581:ASN:ND2	2:AT:704:GLN:HG3	2.34	0.41
2:AT:611:ASP:OD2	2:AT:613:LYS:HB3	2.20	0.41
2:AT:785:ARG:HB2	2:AT:790:GLY:HA2	2.01	0.41
3:AB:135:ALA:HA	3:AB:138:VAL:CG1	2.48	0.41
4:AC:169:THR:O	4:AC:169:THR:HG23	2.20	0.41
6:AE:75:LEU:N	6:AE:75:LEU:CD1	2.82	0.41
7:AG:116:THR:CG2	7:AG:193:LEU:HB2	2.44	0.41
7:AG:136:ILE:CG2	7:AG:137:THR:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:76:PRO:HG2	8:AH:129:TYR:H	1.84	0.41
9:AI:101:LYS:N	9:AI:105:LYS:CA	2.83	0.41
12:AL:102:VAL:HG23	12:AL:133:LEU:CG	2.49	0.41
12:AL:121:ARG:HB2	12:AL:122:PHE:CD1	2.55	0.41
13:AM:26:ILE:CA	13:AM:57:ARG:HH11	2.32	0.41
18:B3:218:C:H41	41:BV:54:LYS:NZ	2.18	0.41
18:B3:219:G:HO2'	18:B3:220:C:P	2.43	0.41
18:B3:449:A:C2	18:B3:1348:A:N6	2.85	0.41
18:B3:697:G:P	41:BV:130:SER:CB	3.07	0.41
18:B3:710:G:C4'	34:BO:44:PHE:CE2	3.01	0.41
18:B3:720:G:H5'	34:BO:71:LEU:O	2.18	0.41
18:B3:735:C:C2'	18:B3:736:A:H5'	2.50	0.41
18:B3:820:G:OP1	47:B9:21:LEU:HD22	2.20	0.41
18:B3:836:G:O2'	18:B3:1737:A:OP1	2.29	0.41
18:B3:1055:G:H8	28:BI:110:ARG:C	2.02	0.41
18:B3:1134:G:O4'	18:B3:1229:C:C5'	2.68	0.41
18:B3:1360:C:C2'	23:BD:88:ALA:N	2.83	0.41
18:B3:1378:G:C8	18:B3:2748:G:O6	2.72	0.41
18:B3:1798:C:O2	18:B3:1798:C:H2'	2.19	0.41
18:B3:1805:G:H8	18:B3:2875:A:H1'	1.82	0.41
18:B3:1870:C:H4'	21:BB:192:ARG:HB3	1.84	0.41
18:B3:2061:C:O4'	42:B0:24:ARG:HD2	2.19	0.41
18:B3:2093:G:C2	22:BC:257:ALA:CA	2.95	0.41
18:B3:2283:G:C5	28:BI:105:CYS:C	2.94	0.41
18:B3:2311:A:OP1	28:BI:119:TRP:CE3	2.28	0.41
18:B3:2430:A:N6	46:BZ:59:LYS:CE	2.82	0.41
18:B3:2596:A:C5'	37:BR:73:VAL:HG13	2.44	0.41
18:B3:2615:U:H5'	22:BC:240:LYS:CG	2.48	0.41
18:B3:2662:G:N2	18:B3:2814:A:C5	2.86	0.41
18:B3:2854:A:OP1	22:BC:170:LEU:CD1	2.68	0.41
19:B4:118:C:C5'	24:BE:70:THR:OG1	2.63	0.41
21:BB:6:ASN:CG	21:BB:233:LYS:HE3	2.40	0.41
21:BB:154:LYS:HE3	21:BB:154:LYS:N	2.29	0.41
22:BC:27:ARG:CZ	22:BC:27:ARG:N	2.83	0.41
22:BC:48:TYR:CD2	22:BC:334:ILE:C	2.93	0.41
22:BC:49:LYS:HG3	22:BC:49:LYS:O	2.17	0.41
22:BC:59:LEU:HD23	22:BC:59:LEU:HA	1.73	0.41
22:BC:204:VAL:CG2	22:BC:205:ASP:N	2.82	0.41
22:BC:229:THR:O	22:BC:233:GLY:HA2	2.20	0.41
22:BC:232:TRP:CD1	22:BC:233:GLY:O	2.73	0.41
23:BD:94:ARG:HB3	23:BD:95:GLY:H	1.65	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BD:130:VAL:HG22	23:BD:131:ALA:N	2.33	0.41
24:BE:55:PHE:CZ	24:BE:159:VAL:N	2.86	0.41
24:BE:111:GLN:NE2	24:BE:142:PHE:CE2	2.87	0.41
24:BE:123:GLU:HG2	24:BE:124:GLU:H	1.85	0.41
25:BF:95:PRO:CG	25:BF:98:PRO:HG2	2.35	0.41
26:BG:112:ALA:HB1	26:BG:121:LYS:HE3	2.01	0.41
27:BH:7:GLU:CG	27:BH:8:GLN:N	2.82	0.41
27:BH:10:ILE:HG23	27:BH:10:ILE:O	2.20	0.41
28:BI:99:ILE:HD12	28:BI:99:ILE:O	2.19	0.41
29:BJ:31:ARG:O	29:BJ:32:ALA:HB3	2.20	0.41
29:BJ:73:PRO:HA	29:BJ:76:GLU:OE1	2.20	0.41
29:BJ:158:THR:CG2	29:BJ:159:VAL:N	2.82	0.41
30:BK:37:LEU:O	30:BK:39:PRO:HD3	2.20	0.41
30:BK:85:LEU:HD13	30:BK:103:ASN:H	1.85	0.41
31:BL:10:GLN:HG2	31:BL:46:LYS:NZ	2.35	0.41
31:BL:109:ALA:CB	31:BL:112:LEU:CD2	2.95	0.41
33:BN:17:ARG:HG3	33:BN:146:GLU:CA	2.49	0.41
33:BN:25:PHE:HE1	33:BN:143:SER:HB2	1.84	0.41
35:BP:108:TYR:HD1	35:BP:113:LYS:HB3	1.85	0.41
36:BQ:55:LYS:N	36:BQ:55:LYS:CD	2.83	0.41
39:BT:61:VAL:HG13	39:BT:62:ILE:HG23	2.01	0.41
39:BT:80:ILE:H	39:BT:124:ARG:HG3	1.84	0.41
41:BV:118:PRO:HG3	41:BV:140:ALA:CB	2.48	0.41
41:BV:123:ILE:N	41:BV:123:ILE:CD1	2.82	0.41
42:B0:32:TRP:CE3	42:B0:32:TRP:C	2.94	0.41
44:BX:30:GLU:HA	44:BX:33:VAL:HG22	2.01	0.41
46:BZ:49:PHE:CG	46:BZ:49:PHE:O	2.72	0.41
46:BZ:70:ARG:HH21	46:BZ:79:ARG:N	2.13	0.41
47:B9:25:VAL:HG12	47:B9:26:LYS:CD	2.45	0.41
1:AA:67:C:N4	1:AA:70:G:N1	2.64	0.41
1:AA:162:A:H2'	1:AA:163:C:O4'	2.19	0.41
1:AA:265:G:H4'	16:AQ:131:SER:CA	2.50	0.41
1:AA:524:G:H5'	12:AL:109:ARG:HB2	2.02	0.41
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.55	0.41
1:AA:1504:G:P	1:AA:1507:A:H8	2.41	0.41
3:AB:191:THR:OG1	3:AB:193:PRO:HG2	2.21	0.41
4:AC:10:LEU:N	4:AC:10:LEU:CD2	2.81	0.41
4:AC:10:LEU:CD2	4:AC:11:VAL:H	2.22	0.41
4:AC:137:VAL:HG12	4:AC:138:SER:N	2.35	0.41
5:AD:96:VAL:HG13	5:AD:97:LEU:N	2.33	0.41
5:AD:99:LEU:CG	5:AD:107:ARG:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:100:LYS:O	5:AD:106:GLU:HB2	2.20	0.41
6:AE:153:LEU:CD2	8:AH:97:GLN:C	2.85	0.41
7:AG:167:VAL:CG2	7:AG:168:ASN:N	2.82	0.41
8:AH:125:LEU:N	8:AH:125:LEU:CD1	2.82	0.41
9:AI:54:VAL:CG2	9:AI:55:GLY:N	2.83	0.41
13:AM:112:ASP:HA	13:AM:115:ARG:HD3	2.02	0.41
13:AM:116:LEU:HA	13:AM:119:ILE:HD11	2.02	0.41
16:AQ:98:ARG:HG2	16:AQ:99:TYR:N	2.35	0.41
17:AS:50:THR:CG2	17:AS:51:SER:H	2.18	0.41
18:B3:20:G:O2'	33:BN:5:ALA:O	2.35	0.41
18:B3:106:A:O2'	18:B3:107:U:H5'	2.20	0.41
18:B3:111:C:O3'	18:B3:119:A:N6	2.48	0.41
18:B3:195:C:P	31:BL:178:LYS:CB	3.04	0.41
18:B3:263:U:C5	26:BG:196:VAL:HG22	2.56	0.41
18:B3:538:C:C1'	42:B0:21:HIS:ND1	2.83	0.41
18:B3:542:A:P	42:B0:14:THR:HA	2.60	0.41
18:B3:1020:A:H2'	18:B3:1021:G:C8	2.55	0.41
18:B3:1053:G:H3'	28:BI:110:ARG:HH22	1.84	0.41
18:B3:1352:A:C4	23:BD:50:ALA:CA	2.90	0.41
18:B3:1462:C:H2'	18:B3:1463:A:C8	2.55	0.41
18:B3:1545:C:H2'	18:B3:1546:G:O4'	2.19	0.41
18:B3:1626:A:H2'	18:B3:1627:G:C5'	2.50	0.41
18:B3:1692:C:O2	33:BN:130:ARG:HG2	2.20	0.41
18:B3:1694:G:H22	45:BY:5:PRO:CG	1.07	0.41
18:B3:1788:U:C4	18:B3:2882:G:O2'	2.73	0.41
18:B3:2165:G:O3'	20:BA:33:GLU:CB	2.53	0.41
18:B3:2276:U:H2'	18:B3:2277:U:C6	2.55	0.41
18:B3:2295:G:C3'	36:BQ:5:HIS:C	2.89	0.41
18:B3:2326:U:H4'	18:B3:2412:G:C4'	2.50	0.41
18:B3:2366:C:OP1	36:BQ:47:SER:OG	2.25	0.41
18:B3:2558:G:C4	18:B3:2799:A:O2'	2.64	0.41
18:B3:2561:C:C4'	18:B3:2777:G:H4'	2.50	0.41
18:B3:2820:A:O4'	22:BC:89:VAL:CA	2.68	0.41
18:B3:2826:G:N9	22:BC:124:SER:HB2	2.35	0.41
19:B4:34:A:H62	24:BE:95:TRP:HZ3	1.41	0.41
19:B4:97:U:H2'	19:B4:98:C:C6	2.55	0.41
19:B4:120:A:H4'	24:BE:74:VAL:CG1	2.50	0.41
21:BB:157:ILE:HD13	21:BB:157:ILE:O	2.20	0.41
21:BB:179:LEU:HD22	47:B9:21:LEU:HD12	0.42	0.41
21:BB:187:LYS:CE	21:BB:187:LYS:CA	2.98	0.41
22:BC:15:PHE:O	22:BC:15:PHE:CD2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:45:PHE:CE2	22:BC:202:VAL:CG2	3.03	0.41
22:BC:52:MET:SD	22:BC:77:VAL:CG2	3.07	0.41
22:BC:71:VAL:O	22:BC:71:VAL:HG13	2.21	0.41
22:BC:228:VAL:CG2	22:BC:229:THR:N	2.82	0.41
22:BC:231:ARG:CD	22:BC:232:TRP:N	2.82	0.41
22:BC:239:ARG:O	22:BC:240:LYS:HG3	2.19	0.41
22:BC:274:ARG:HD3	22:BC:274:ARG:H	1.84	0.41
22:BC:350:LEU:N	22:BC:350:LEU:CD2	2.83	0.41
23:BD:32:ASP:HB2	23:BD:33:ILE:HD12	2.02	0.41
23:BD:128:THR:HG23	23:BD:247:VAL:CG2	2.50	0.41
23:BD:186:LEU:N	23:BD:186:LEU:CD2	2.83	0.41
24:BE:47:PRO:HB2	24:BE:67:SER:CB	2.46	0.41
24:BE:51:LEU:HG	24:BE:51:LEU:O	2.20	0.41
24:BE:102:GLY:O	24:BE:103:LEU:HB2	2.20	0.41
24:BE:112:ARG:CG	24:BE:113:LEU:H	2.32	0.41
24:BE:118:THR:HG22	24:BE:130:GLU:CD	2.41	0.41
24:BE:223:PHE:CD1	24:BE:223:PHE:C	2.93	0.41
25:BF:110:ILE:O	25:BF:110:ILE:HG23	2.19	0.41
26:BG:109:THR:HA	26:BG:118:GLY:HA3	2.00	0.41
27:BH:34:LEU:CG	27:BH:150:SER:HB3	2.50	0.41
27:BH:94:TYR:HB2	27:BH:95:ALA:H	1.52	0.41
27:BH:173:ARG:HB2	27:BH:173:ARG:CZ	2.50	0.41
28:BI:48:LEU:HD23	28:BI:49:CYS:H	1.80	0.41
28:BI:52:LEU:HG	28:BI:136:PHE:O	2.20	0.41
28:BI:140:THR:CG2	28:BI:141:LYS:CD	2.95	0.41
29:BJ:91:ARG:NE	29:BJ:169:ASP:HB2	2.18	0.41
29:BJ:155:LYS:HA	29:BJ:158:THR:HG22	2.02	0.41
29:BJ:166:TYR:HD1	29:BJ:167:ASP:CG	2.23	0.41
31:BL:133:LEU:HD23	31:BL:133:LEU:HA	1.77	0.41
31:BL:138:HIS:CB	31:BL:141:ILE:HG21	2.49	0.41
31:BL:168:LYS:HD2	31:BL:169:LYS:HG2	2.01	0.41
31:BL:193:GLN:H	31:BL:193:GLN:CD	2.24	0.41
32:BM:48:ARG:HB2	32:BM:52:LYS:HE2	2.01	0.41
33:BN:21:LEU:HD13	33:BN:89:PHE:HB3	2.02	0.41
35:BP:10:ALA:H	35:BP:40:ILE:HG21	1.85	0.41
36:BQ:42:ILE:HG23	36:BQ:59:GLY:N	2.32	0.41
37:BR:22:ILE:CD1	37:BR:22:ILE:N	2.83	0.41
37:BR:64:LYS:HE3	37:BR:64:LYS:CA	2.50	0.41
39:BT:98:VAL:O	39:BT:102:TYR:CE1	2.74	0.41
40:BU:89:LYS:CD	40:BU:89:LYS:N	2.83	0.41
40:BU:89:LYS:NZ	40:BU:92:GLY:HA2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BV:44:MET:O	41:BV:47:TYR:HE1	2.03	0.41
41:BV:111:ILE:CD1	41:BV:111:ILE:N	2.83	0.41
45:BY:16:THR:O	45:BY:26:PHE:CD1	2.73	0.41
47:B9:41:CYS:SG	47:B9:42:GLY:N	2.93	0.41
1:AA:50:A:N6	1:AA:361:G:H4'	2.35	0.41
1:AA:62:U:H4'	1:AA:385:C:H2'	1.71	0.41
1:AA:190(C):C:H41	16:AQ:112:PRO:CD	2.33	0.41
1:AA:458:C:H2'	1:AA:459:G:C8	2.55	0.41
1:AA:767:A:H2'	1:AA:768:A:O4'	2.20	0.41
1:AA:825:G:O2'	1:AA:826:C:H5'	2.20	0.41
1:AA:1484:C:H3'	18:B3:2002:C:H5'	1.48	0.41
2:AT:564:ARG:HG3	2:AT:682:ARG:HB2	2.01	0.41
2:AT:737:GLU:HG3	18:B3:1199:A:N1	2.33	0.41
3:AB:32:GLN:HE22	3:AB:152:SER:CB	2.21	0.41
4:AC:33:TYR:HE1	4:AC:35:GLY:CA	2.33	0.41
4:AC:101:ALA:HB2	4:AC:185:VAL:HG23	2.01	0.41
6:AE:161:CYS:HB3	6:AE:208:ASN:HB3	2.01	0.41
7:AG:111:ARG:HG3	9:AI:43:LEU:HD21	2.01	0.41
7:AG:138:ASN:HD21	7:AG:202:LYS:CD	2.32	0.41
9:AI:56:LEU:HD12	9:AI:56:LEU:H	1.84	0.41
12:AL:100:ASP:HB3	12:AL:132:LEU:CG	2.49	0.41
13:AM:25:ASN:O	13:AM:57:ARG:HD2	2.21	0.41
13:AM:131:LEU:HD13	17:AS:121:ILE:CG2	2.50	0.41
15:AO:88:TYR:O	15:AO:92:LYS:HD3	2.20	0.41
18:B3:26:U:O2	18:B3:1319:G:C2	2.74	0.41
18:B3:51:G:H4'	45:BY:20:ARG:C	2.41	0.41
18:B3:60:A:O2'	18:B3:61:G:H5'	2.19	0.41
18:B3:93:C:C4'	44:BX:42:PRO:HB3	2.47	0.41
18:B3:134:U:C5'	31:BL:108:ARG:CD	2.92	0.41
18:B3:240:C:H5"	18:B3:270:U:O4	2.20	0.41
18:B3:438:C:HO2'	18:B3:439:A:P	2.44	0.41
18:B3:558:C:N3	18:B3:600:G:C2	2.88	0.41
18:B3:620:A:P	42:B0:39:ASP:O	2.75	0.41
18:B3:968:G:H4'	28:BI:35:ASP:CG	2.40	0.41
18:B3:1116:U:H1'	18:B3:1225:C:O5'	2.20	0.41
18:B3:1268:C:H5'	42:B0:61:LYS:CG	2.49	0.41
18:B3:1336:U:OP2	42:B0:100:ILE:CD1	2.67	0.41
18:B3:1566:C:O5'	35:BP:57:HIS:HE1	1.99	0.41
18:B3:1566:C:O2'	35:BP:56:VAL:HG13	2.20	0.41
18:B3:1809:G:C4'	18:B3:2731:G:H5"	2.39	0.41
18:B3:1812:G:C1'	18:B3:2732:U:O2'	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2064:U:H3'	22:BC:255:HIS:HE1	1.82	0.41
18:B3:2291:A:H5"	18:B3:2292:C:C5'	2.49	0.41
18:B3:2304:G:C4'	36:BQ:56:PHE:CD1	2.99	0.41
18:B3:2336:G:O2'	18:B3:2337:G:H5'	2.20	0.41
18:B3:2382:A:C4'	46:BZ:12:LYS:HB3	2.46	0.41
18:B3:2385:G:H2'	18:B3:2386:U:H6	1.85	0.41
18:B3:2395:A:HO2'	18:B3:2396:C:P	2.44	0.41
18:B3:2719:A:C2	37:BR:91:VAL:HG11	2.53	0.41
18:B3:2821:C:H2'	18:B3:2822:C:C6	2.55	0.41
18:B3:2836:G:O2'	18:B3:2837:U:P	2.78	0.41
18:B3:2846:C:H5"	22:BC:174:LYS:CD	2.50	0.41
18:B3:2853:U:H5'	22:BC:170:LEU:HD21	1.87	0.41
19:B4:1:U:O2'	19:B4:3:A:OP1	2.38	0.41
19:B4:56:A:C3'	19:B4:57:A:H5"	2.50	0.41
21:BB:154:LYS:H	21:BB:154:LYS:CD	2.32	0.41
21:BB:197:LYS:HD3	21:BB:197:LYS:H	1.84	0.41
22:BC:42:LEU:N	22:BC:180:ILE:HD13	2.36	0.41
22:BC:46:LEU:CD2	22:BC:336:THR:HG22	2.50	0.41
22:BC:52:MET:HB2	22:BC:77:VAL:H	1.85	0.41
22:BC:90:GLY:C	22:BC:91:TYR:CD2	2.94	0.41
22:BC:105:TRP:CZ3	22:BC:138:GLN:O	2.73	0.41
22:BC:279:HIS:CE1	22:BC:327:ILE:CG1	3.02	0.41
23:BD:147:ILE:C	23:BD:147:ILE:HD12	2.41	0.41
23:BD:177:LEU:HB2	23:BD:222:PRO:CG	2.47	0.41
24:BE:46:THR:OG1	24:BE:66:SER:HA	2.21	0.41
24:BE:49:TYR:OH	24:BE:144:VAL:HG22	2.21	0.41
24:BE:55:PHE:CD1	24:BE:151:GLN:NE2	2.88	0.41
24:BE:65:ILE:CG1	24:BE:75:LEU:H	2.33	0.41
24:BE:68:THR:CG2	24:BE:69:ILE:N	2.82	0.41
24:BE:148:ILE:H	24:BE:148:ILE:CD1	2.33	0.41
25:BF:131:PRO:HB3	25:BF:228:PHE:HZ	1.83	0.41
27:BH:24:ILE:CD1	27:BH:25:VAL:H	2.22	0.41
27:BH:44:THR:O	27:BH:45:PHE:CG	2.73	0.41
27:BH:94:TYR:HB3	27:BH:176:LEU:O	2.20	0.41
27:BH:97:PHE:HE2	27:BH:119:GLY:CA	2.33	0.41
27:BH:103:ILE:HG21	27:BH:134:ILE:CB	2.50	0.41
27:BH:112:ILE:C	27:BH:125:ASN:HB3	2.39	0.41
28:BI:94:PHE:O	28:BI:95:HIS:CB	2.68	0.41
29:BJ:49:ALA:O	29:BJ:50:ARG:HB3	2.20	0.41
29:BJ:70:VAL:CG1	29:BJ:75:ALA:CB	2.92	0.41
30:BK:71:ALA:HB1	30:BK:115:GLN:CA	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:112:ILE:O	30:BK:115:GLN:HG2	2.20	0.41
31:BL:53:LYS:HD2	31:BL:53:LYS:N	2.34	0.41
31:BL:90:GLU:CG	31:BL:91:LEU:N	2.83	0.41
31:BL:103:GLU:CG	31:BL:104:ARG:HG2	2.48	0.41
31:BL:175:LYS:HA	31:BL:175:LYS:HZ2	1.82	0.41
32:BM:42:ILE:CD1	32:BM:136:THR:CG2	2.94	0.41
33:BN:25:PHE:CE2	33:BN:28:THR:HG23	2.55	0.41
33:BN:27:ASN:HB3	33:BN:83:PRO:HG2	2.02	0.41
34:BO:46:LYS:O	34:BO:49:LEU:HB3	2.20	0.41
34:BO:74:GLU:OE1	34:BO:140:LEU:HD21	2.20	0.41
34:BO:77:ALA:C	34:BO:79:LYS:HD3	2.40	0.41
34:BO:77:ALA:O	34:BO:79:LYS:HD3	2.20	0.41
37:BR:71:LYS:HG2	37:BR:72:LYS:N	2.36	0.41
39:BT:114:ARG:NE	39:BT:116:ASN:HB2	2.35	0.41
40:BU:85:VAL:HG13	40:BU:86:THR:H	1.85	0.41
40:BU:90:VAL:CG1	40:BU:91:ASN:N	2.83	0.41
41:BV:13:HIS:CD2	41:BV:16:ALA:HA	2.55	0.41
44:BX:4:VAL:CG2	44:BX:5:LYS:N	2.82	0.41
45:BY:15:HIS:HD2	45:BY:24:ARG:CG	2.31	0.41
45:BY:32:THR:CB	45:BY:38:TYR:CD1	2.93	0.41
47:B9:55:THR:CG2	47:B9:62:THR:CA	2.96	0.41
1:AA:233:C:O2'	16:AQ:135:ARG:NH2	2.47	0.41
1:AA:433:C:O2'	1:AA:434:U:H5'	2.21	0.41
1:AA:730:G:C5	1:AA:731:G:H1'	2.55	0.41
1:AA:988:G:C5	1:AA:1015:A:C2	3.09	0.41
1:AA:1217:C:O2'	1:AA:1218:C:H5'	2.20	0.41
1:AA:1221:G:C2'	17:AS:101:ALA:O	2.67	0.41
1:AA:1223:C:H4'	17:AS:100:LYS:NZ	2.34	0.41
2:AT:465:LYS:CG	2:AT:515:ASP:N	2.83	0.41
2:AT:474:THR:O	2:AT:474:THR:HG22	2.20	0.41
5:AD:179:ARG:HG2	5:AD:184:SER:OG	2.20	0.41
6:AE:204:ARG:HB3	6:AE:207:GLU:HB2	2.02	0.41
7:AG:78:ASN:H	7:AG:78:ASN:ND2	2.18	0.41
7:AG:198:ILE:CG2	7:AG:199:ASN:N	2.82	0.41
8:AH:33:ILE:CG2	8:AH:34:ILE:N	2.82	0.41
9:AI:8:THR:HB	9:AI:87:GLY:CA	2.50	0.41
9:AI:36:THR:C	9:AI:39:GLU:HG2	2.40	0.41
9:AI:133:ALA:HB3	9:AI:134:ARG:H	1.72	0.41
10:AJ:73:GLY:H	14:AN:38:CYS:CB	2.31	0.41
10:AJ:82:TYR:CE1	14:AN:43:ARG:NH1	2.88	0.41
10:AJ:88:LYS:CG	10:AJ:89:ARG:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:102:ALA:O	13:AM:105:VAL:HB	2.20	0.41
14:AN:31:ARG:CG	14:AN:32:LYS:N	2.82	0.41
16:AQ:124:VAL:HG21	16:AQ:136:PHE:CB	2.46	0.41
18:B3:77:G:O2'	18:B3:78:G:H5'	2.20	0.41
18:B3:219:G:C4'	46:BZ:52:GLN:CG	2.95	0.41
18:B3:255:A:O2'	18:B3:256:C:H5'	2.20	0.41
18:B3:289:G:C2	18:B3:363:A:H2	2.34	0.41
18:B3:345:G:H2'	18:B3:346:U:C6	2.55	0.41
18:B3:472:A:H5'	45:BY:34:SER:O	2.20	0.41
18:B3:657:G:C4'	23:BD:119:TYR:HE2	2.33	0.41
18:B3:659:A:N3	18:B3:746:A:C2	2.89	0.41
18:B3:850:U:H2'	18:B3:851:C:O4'	2.19	0.41
18:B3:907:A:C2	18:B3:1328:A:C6	2.94	0.41
18:B3:1383:U:C6	43:BW:29:PRO:HG3	2.50	0.41
18:B3:1427:A:H61	18:B3:1440:U:H1'	1.84	0.41
18:B3:1846:U:O3'	21:BB:180:LYS:CA	2.69	0.41
18:B3:1914:C:C2	18:B3:1926:G:C2	3.08	0.41
18:B3:2283:G:O5'	28:BI:114:GLY:C	2.59	0.41
18:B3:2336:G:OP1	29:BJ:103:PHE:CE2	2.73	0.41
18:B3:2468:A:C2	46:BZ:55:PRO:CD	3.02	0.41
18:B3:2533:C:C6	18:B3:2533:C:H5'	2.52	0.41
18:B3:2547:C:H5"	22:BC:234:THR:OG1	2.20	0.41
18:B3:2558:G:N3	18:B3:2799:A:C2'	2.83	0.41
18:B3:2913:A:N3	22:BC:125:LYS:C	2.72	0.41
19:B4:48:C:C1'	24:BE:158:ARG:HG3	2.48	0.41
19:B4:55:U:HO2'	19:B4:56:A:P	2.43	0.41
20:BA:63:MET:HE3	20:BA:160:LYS:N	2.26	0.41
20:BA:205:VAL:CG1	20:BA:206:VAL:N	2.83	0.41
21:BB:103:LEU:CD1	21:BB:138:HIS:CE1	3.02	0.41
21:BB:183:ARG:CA	21:BB:186:HIS:CE1	3.03	0.41
22:BC:10:HIS:CB	22:BC:232:TRP:CD1	2.95	0.41
22:BC:38:LYS:O	22:BC:193:TRP:CD1	2.73	0.41
22:BC:89:VAL:HG23	22:BC:158:ARG:HG2	2.00	0.41
22:BC:232:TRP:CE2	22:BC:264:ALA:HA	2.55	0.41
22:BC:254:TRP:CE3	22:BC:256:PRO:N	2.88	0.41
22:BC:313:TYR:CZ	22:BC:332:LYS:HB2	2.55	0.41
24:BE:42:ALA:HB2	24:BE:66:SER:HB3	1.95	0.41
24:BE:46:THR:HG1	24:BE:66:SER:HA	1.85	0.41
24:BE:52:VAL:CG1	24:BE:53:VAL:N	2.84	0.41
24:BE:131:LEU:CG	24:BE:132:THR:N	2.83	0.41
25:BF:179:SER:HA	25:BF:183:LEU:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BF:209:PRO:HG2	25:BF:242:MET:CG	2.41	0.41
26:BG:105:LYS:HB2	26:BG:108:LEU:HD21	1.99	0.41
26:BG:212:LYS:HD2	26:BG:212:LYS:C	2.40	0.41
26:BG:217:ILE:O	26:BG:218:ASP:HB2	2.20	0.41
27:BH:89:LYS:C	27:BH:181:VAL:HG23	2.41	0.41
28:BI:9:TYR:CB	28:BI:10:ARG:NH2	2.84	0.41
30:BK:20:GLY:H	30:BK:54:LYS:HD2	1.85	0.41
30:BK:85:LEU:HD21	30:BK:101:SER:O	2.20	0.41
30:BK:94:LYS:CG	30:BK:95:ASP:N	2.82	0.41
31:BL:25:ARG:HE	31:BL:25:ARG:N	2.19	0.41
32:BM:132:ARG:N	32:BM:134:TYR:CZ	2.88	0.41
33:BN:14:ALA:N	33:BN:149:VAL:CG1	2.83	0.41
33:BN:25:PHE:CE1	33:BN:28:THR:CG2	2.98	0.41
33:BN:27:ASN:HA	33:BN:30:GLU:HG3	2.02	0.41
33:BN:84:ALA:CB	33:BN:85:LYS:HZ2	2.30	0.41
33:BN:149:VAL:HB	33:BN:150:THR:H	1.48	0.41
34:BO:52:LEU:C	34:BO:54:LEU:H	2.24	0.41
34:BO:81:VAL:H	34:BO:101:VAL:HG22	1.82	0.41
35:BP:6:GLN:CG	35:BP:7:LYS:N	2.83	0.41
35:BP:23:LEU:CD2	35:BP:24:ASP:N	2.81	0.41
35:BP:100:VAL:CG2	35:BP:101:LEU:N	2.82	0.41
38:BS:5:ILE:N	38:BS:5:ILE:CD1	2.82	0.41
38:BS:7:SER:O	38:BS:8:PHE:CD2	2.73	0.41
41:BV:81:ILE:HG22	41:BV:82:PRO:HD3	2.02	0.41
41:BV:124:VAL:CG1	41:BV:125:LYS:N	2.83	0.41
41:BV:143:VAL:CG2	41:BV:144:VAL:H	2.12	0.41
42:B0:103:LYS:C	42:B0:107:VAL:HG13	2.40	0.41
42:B0:106:VAL:HA	42:B0:109:LEU:HG	2.01	0.41
43:BW:11:TYR:CE1	43:BW:72:LEU:HB3	2.44	0.41
43:BW:60:LYS:O	43:BW:61:ARG:HB2	2.20	0.41
44:BX:24:LEU:N	44:BX:24:LEU:CD2	2.81	0.41
1:AA:35:G:H5'	12:AL:130:VAL:HG23	2.02	0.41
1:AA:120:A:O4'	1:AA:122:G:N7	2.53	0.41
1:AA:335:C:H2'	1:AA:336:C:C6	2.56	0.41
1:AA:357:G:OP1	1:AA:366:C:H3'	2.21	0.41
1:AA:362:G:O5'	12:AL:77:ILE:HB	2.13	0.41
1:AA:405:U:N3	5:AD:26:ALA:CA	2.83	0.41
1:AA:551:U:O2	12:AL:48:HIS:HE1	2.01	0.41
1:AA:643:C:H1'	8:AH:123:LYS:NZ	2.34	0.41
1:AA:864:A:H2'	1:AA:865:A:C8	2.55	0.41
1:AA:1125:U:H5"	1:AA:1126:U:H5	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1222:G:P	17:AS:81:ARG:CZ	3.05	0.41
2:AT:109:VAL:HG11	2:AT:142:VAL:CG2	2.36	0.41
2:AT:383:SER:O	2:AT:384:LYS:HB3	2.21	0.41
2:AT:731:VAL:O	2:AT:769:LYS:HA	2.21	0.41
2:AT:757:GLU:CB	18:B3:1171:A:C2'	2.87	0.41
4:AC:159:SER:CB	4:AC:167:ILE:CD1	2.94	0.41
5:AD:32:GLY:O	5:AD:34:PHE:CD2	2.74	0.41
5:AD:129:ILE:CG2	5:AD:130:THR:N	2.82	0.41
6:AE:136:ILE:O	6:AE:136:ILE:HG23	2.18	0.41
7:AG:110:VAL:CG2	7:AG:111:ARG:N	2.84	0.41
7:AG:113:ILE:HD12	7:AG:113:ILE:N	2.36	0.41
8:AH:16:ALA:HB3	8:AH:24:VAL:HG21	2.00	0.41
11:AK:92:THR:HG23	11:AK:94:GLY:H	1.86	0.41
12:AL:93:LEU:O	12:AL:94:ASN:HB3	2.20	0.41
17:AS:90:ILE:HG22	17:AS:91:GLY:N	2.34	0.41
18:B3:35:U:H1'	23:BD:48:ALA:H	1.85	0.41
18:B3:132:A:H2'	18:B3:133:U:C6	2.55	0.41
18:B3:149:G:OP1	45:BY:42:LYS:CA	2.68	0.41
18:B3:333:G:O2'	18:B3:334:G:H5'	2.20	0.41
18:B3:433:C:O2'	18:B3:434:U:H5'	2.20	0.41
18:B3:526:U:H2'	18:B3:527:U:C6	2.56	0.41
18:B3:620:A:OP2	42:B0:39:ASP:C	2.28	0.41
18:B3:672:G:C2	23:BD:236:GLN:OE1	2.70	0.41
18:B3:676:C:H5"	23:BD:234:LEU:H	1.85	0.41
18:B3:778:C:H2'	18:B3:779:U:O4'	2.20	0.41
18:B3:1003:U:C5'	28:BI:90:ARG:HE	2.31	0.41
18:B3:1056:U:C6	28:BI:109:ASP:HB3	2.53	0.41
18:B3:1163:G:H5"	30:BK:54:LYS:CG	2.51	0.41
18:B3:1228:C:H5"	32:BM:47:PHE:CE2	2.27	0.41
18:B3:1310:U:C5	23:BD:202:ARG:HA	2.54	0.41
18:B3:1446:U:P	39:BT:70:THR:H	2.43	0.41
18:B3:1529:G:O3'	21:BB:69:ARG:CZ	2.69	0.41
18:B3:1899:C:O3'	21:BB:225:SER:CA	2.51	0.41
18:B3:1915:U:O2'	18:B3:1916:C:H5'	2.21	0.41
18:B3:2168:G:C6	18:B3:2169:C:C4	3.07	0.41
18:B3:2335:C:H2'	18:B3:2336:G:H8	1.84	0.41
18:B3:2345:A:O3'	29:BJ:64:ILE:CG2	2.68	0.41
18:B3:2347:C:C4'	29:BJ:66:VAL:O	2.68	0.41
18:B3:2515:C:H2'	18:B3:2516:G:C5'	2.51	0.41
18:B3:2660:G:C6	18:B3:2812:A:N6	2.89	0.41
18:B3:2806:C:O3'	22:BC:277:ILE:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2858:U:H2'	18:B3:2859:C:H6	1.85	0.41
21:BB:119:PRO:HG3	21:BB:160:ASP:OD2	2.20	0.41
21:BB:191:LYS:HE3	21:BB:193:ASN:HB3	2.01	0.41
22:BC:98:LEU:N	22:BC:98:LEU:CD2	2.83	0.41
22:BC:176:HIS:CE1	22:BC:335:VAL:CG1	3.02	0.41
22:BC:254:TRP:CZ3	22:BC:256:PRO:CD	3.03	0.41
22:BC:254:TRP:CZ3	22:BC:256:PRO:O	2.73	0.41
23:BD:31:PRO:HD3	23:BD:243:LEU:HD11	2.03	0.41
24:BE:21:ARG:HH11	24:BE:21:ARG:HD2	1.73	0.41
24:BE:51:LEU:HA	24:BE:64:ILE:CD1	2.51	0.41
25:BF:120:LYS:C	25:BF:122:THR:H	2.23	0.41
27:BH:59:ASN:HB3	27:BH:64:HIS:CG	2.55	0.41
27:BH:75:VAL:C	27:BH:77:ASN:H	2.24	0.41
27:BH:101:VAL:HG13	27:BH:113:GLU:CD	2.41	0.41
27:BH:129:ARG:CG	27:BH:153:ASP:HA	2.50	0.41
28:BI:42:THR:HG22	28:BI:44:ASP:H	1.86	0.41
29:BJ:31:ARG:CB	29:BJ:34:LYS:HE2	2.40	0.41
31:BL:47:ALA:HB1	31:BL:52:TYR:CB	2.50	0.41
32:BM:49:ASN:O	32:BM:53:TYR:CD1	2.74	0.41
32:BM:51:LEU:HD12	32:BM:51:LEU:N	2.35	0.41
33:BN:36:ASN:HB3	33:BN:116:ILE:HG21	2.01	0.41
34:BO:52:LEU:CD2	34:BO:84:VAL:HG22	2.50	0.41
34:BO:87:VAL:CG2	34:BO:88:THR:N	2.83	0.41
35:BP:6:GLN:HE21	35:BP:6:GLN:HB2	1.62	0.41
35:BP:18:LYS:HZ1	35:BP:18:LYS:HA	1.80	0.41
35:BP:94:TRP:HE1	35:BP:98:LEU:CD1	2.25	0.41
35:BP:116:LYS:HA	35:BP:119:TYR:CE1	2.53	0.41
36:BQ:63:VAL:HG23	36:BQ:77:ASN:HD22	1.86	0.41
37:BR:64:LYS:CE	37:BR:65:GLY:N	2.82	0.41
39:BT:74:LYS:HB3	39:BT:81:LEU:HG	2.03	0.41
41:BV:10:HIS:CA	41:BV:13:HIS:CE1	3.03	0.41
41:BV:74:LEU:HG	41:BV:117:ILE:HG21	2.02	0.41
41:BV:81:ILE:CG2	41:BV:82:PRO:CA	2.98	0.41
41:BV:136:LYS:N	41:BV:136:LYS:CD	2.84	0.41
42:B0:57:TYR:O	42:B0:57:TYR:CG	2.73	0.41
42:B0:78:ASN:O	42:B0:109:LEU:HD13	2.20	0.41
42:B0:103:LYS:CG	42:B0:104:ASN:N	2.83	0.41
44:BX:17:LEU:CD1	44:BX:54:VAL:HG22	2.51	0.41
45:BY:30:LYS:HE3	45:BY:30:LYS:O	2.19	0.41
46:BZ:68:VAL:HG22	46:BZ:69:LEU:N	2.35	0.41
1:AA:67:C:O2	1:AA:69:G:H2'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:271:C:O2'	1:AA:272:C:H5'	2.21	0.41
1:AA:363:A:C6	12:AL:44:GLY:HA3	2.55	0.41
1:AA:383:A:H2'	1:AA:384:G:H5'	2.01	0.41
1:AA:1053:G:C3'	1:AA:1054:C:C5'	2.98	0.41
1:AA:1145:C:O2'	1:AA:1146:A:O5'	2.38	0.41
1:AA:1229:A:H2'	1:AA:1230:C:C6	2.55	0.41
1:AA:1502:A:OP2	1:AA:1508:G:C1'	2.63	0.41
2:AT:141:THR:HG1	2:AT:481:MET:HB3	1.83	0.41
2:AT:141:THR:C	2:AT:483:PHE:HD2	2.20	0.41
2:AT:539:GLU:OE2	18:B3:2699:A:C4'	2.36	0.41
2:AT:734:GLN:O	2:AT:735:CYS:HB3	2.19	0.41
3:AB:56:LEU:CD2	3:AB:159:ILE:HG23	2.43	0.41
4:AC:6:LYS:HA	4:AC:6:LYS:CE	2.35	0.41
5:AD:48:GLN:CG	5:AD:49:LEU:N	2.82	0.41
5:AD:99:LEU:HD12	5:AD:106:GLU:C	2.41	0.41
6:AE:90:ARG:N	6:AE:90:ARG:CD	2.83	0.41
6:AE:217:ILE:CG2	6:AE:218:GLY:N	2.82	0.41
8:AH:27:ARG:HE	8:AH:28:PRO:CD	2.33	0.41
8:AH:76:PRO:CG	8:AH:129:TYR:CE1	3.03	0.41
8:AH:96:ARG:HG2	8:AH:116:ARG:HH21	1.77	0.41
10:AJ:94:GLU:HG2	10:AJ:95:ALA:H	1.85	0.41
10:AJ:100:VAL:CG2	10:AJ:101:LYS:N	2.83	0.41
13:AM:15:LEU:HB3	13:AM:66:LEU:CD1	2.51	0.41
13:AM:81:ILE:O	13:AM:81:ILE:HG23	2.20	0.41
13:AM:125:ILE:HG12	13:AM:129:TRP:CD1	2.56	0.41
15:AO:77:ASN:HD22	15:AO:77:ASN:HA	1.64	0.41
18:B3:23:G:C6	18:B3:24:G:N1	2.89	0.41
18:B3:91:G:C2'	44:BX:41:LEU:CB	2.87	0.41
18:B3:93:C:O4'	44:BX:42:PRO:CG	2.63	0.41
18:B3:243:A:O2'	18:B3:376:C:O3'	2.37	0.41
18:B3:569:A:H5"	18:B3:587:A:N1	2.36	0.41
18:B3:585:C:H2'	18:B3:586:C:C6	2.56	0.41
18:B3:672:G:H8	23:BD:214:ILE:HG23	1.67	0.41
18:B3:764:C:H2'	18:B3:765:G:O4'	2.19	0.41
18:B3:1133:A:C5	18:B3:2501:G:H1'	2.56	0.41
18:B3:1396:C:H4'	35:BP:2:ASN:HB3	2.03	0.41
18:B3:1676:G:O2'	18:B3:1677:U:H5'	2.20	0.41
18:B3:1689:A:N3	33:BN:128:THR:CB	2.64	0.41
18:B3:1846:U:H2'	18:B3:1847:A:C5	2.55	0.41
18:B3:1898:G:O2'	21:BB:223:THR:HG23	2.20	0.41
18:B3:1930:A:C6	18:B3:1931:A:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2004:U:C2'	18:B3:2005:G:OP1	2.69	0.41
18:B3:2064:U:H2'	18:B3:2065:C:C6	2.55	0.41
18:B3:2222:C:C4'	20:BA:215:ARG:HH22	2.27	0.41
18:B3:2312:G:OP1	28:BI:22:TYR:CZ	2.68	0.41
18:B3:2320:U:C2'	46:BZ:3:VAL:HG11	2.43	0.41
18:B3:2597:U:C2'	18:B3:2598:U:H5'	2.51	0.41
18:B3:2633:A:P	21:BB:213:GLY:HA2	2.60	0.41
18:B3:2734:G:OP1	35:BP:79:LYS:CD	2.68	0.41
19:B4:7:G:OP2	24:BE:30:TYR:CZ	2.73	0.41
20:BA:63:MET:CG	20:BA:161:LYS:HZ2	2.33	0.41
20:BA:99:LEU:N	20:BA:99:LEU:CD2	2.84	0.41
20:BA:121:PRO:CG	20:BA:134:PHE:HE1	2.34	0.41
21:BB:28:LEU:N	21:BB:122:ARG:CZ	2.83	0.41
22:BC:146:GLU:HG3	22:BC:147:LEU:N	2.35	0.41
22:BC:174:LYS:HD2	22:BC:175:ALA:N	2.35	0.41
22:BC:191:VAL:CG2	22:BC:192:ASP:N	2.83	0.41
22:BC:213:MET:HE3	22:BC:344:ASN:ND2	2.36	0.41
23:BD:128:THR:HB	23:BD:129:ALA:H	1.57	0.41
23:BD:148:PRO:O	23:BD:247:VAL:HG23	2.21	0.41
23:BD:193:TYR:O	23:BD:193:TYR:CG	2.74	0.41
23:BD:235:LEU:HD12	23:BD:236:GLN:HA	2.02	0.41
24:BE:118:THR:HG22	24:BE:130:GLU:OE2	2.21	0.41
25:BF:185:HIS:O	25:BF:189:THR:HG23	2.21	0.41
26:BG:139:VAL:HG13	26:BG:140:ALA:N	2.34	0.41
27:BH:44:THR:O	27:BH:45:PHE:CD1	2.74	0.41
27:BH:113:GLU:O	27:BH:114:VAL:HG22	2.21	0.41
28:BI:31:ILE:CD1	28:BI:66:GLU:HA	2.45	0.41
28:BI:99:ILE:HD11	28:BI:121:LYS:HE3	2.02	0.41
28:BI:106:ALA:N	28:BI:111:LEU:HB3	2.32	0.41
28:BI:156:ARG:HD3	28:BI:163:GLN:O	2.21	0.41
30:BK:81:VAL:CG1	30:BK:82:ILE:N	2.83	0.41
31:BL:17:VAL:CG2	31:BL:18:LEU:N	2.83	0.41
31:BL:82:LYS:HG3	46:BZ:48:GLY:CA	2.51	0.41
31:BL:161:ARG:HG2	31:BL:166:THR:OG1	2.21	0.41
32:BM:2:VAL:HG12	32:BM:3:GLU:N	2.35	0.41
32:BM:124:ARG:HB2	32:BM:124:ARG:CZ	2.51	0.41
34:BO:98:LYS:O	34:BO:98:LYS:HG3	2.20	0.41
36:BQ:96:ILE:HG22	36:BQ:97:LYS:N	2.36	0.41
37:BR:11:PHE:CB	37:BR:86:ARG:CG	2.94	0.41
37:BR:12:ARG:N	37:BR:86:ARG:CG	2.81	0.41
37:BR:21:ALA:C	37:BR:22:ILE:HD12	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BU:46:LYS:HD2	40:BU:47:ALA:CA	2.51	0.41
41:BV:105:ALA:O	41:BV:108:TYR:CD1	2.74	0.41
42:B0:42:VAL:HA	42:B0:49:ASN:HB2	2.02	0.41
42:B0:96:ILE:HG13	42:B0:100:ILE:CG2	2.41	0.41
44:BX:25:LYS:CE	44:BX:25:LYS:CA	2.95	0.41
47:B9:32:GLN:NE2	47:B9:68:TYR:CD2	2.86	0.41
1:AA:11:G:HO2'	1:AA:525:C:H1'	1.82	0.41
1:AA:21:G:C3'	1:AA:884:U:O3'	2.64	0.41
1:AA:47:C:C6	1:AA:365:U:H2'	2.55	0.41
1:AA:55:A:C2	2:AT:67:GLY:CA	3.00	0.41
1:AA:107:G:O2'	1:AA:108:G:H5'	2.20	0.41
1:AA:317:G:H21	1:AA:1468:A:C1'	2.29	0.41
1:AA:363:A:O2'	1:AA:364:A:H5'	2.20	0.41
1:AA:373:A:H2'	1:AA:374:A:H8	1.86	0.41
1:AA:523:A:H62	12:AL:113:ALA:CB	2.17	0.41
1:AA:579:G:H5'	1:AA:728:A:C1'	2.45	0.41
1:AA:754:C:H1'	15:AO:127:TYR:CE2	2.43	0.41
1:AA:865:A:O2'	1:AA:1079:G:N1	2.41	0.41
1:AA:923:A:O5'	1:AA:923:A:H8	2.04	0.41
1:AA:989:C:C1'	1:AA:1015:A:H2'	2.40	0.41
1:AA:1297:C:O5'	13:AM:56:LYS:HB2	2.20	0.41
1:AA:1328:C:H2'	13:AM:96:LYS:CA	2.51	0.41
1:AA:1331:G:C6	13:AM:41:ARG:HB2	2.49	0.41
1:AA:1350:A:N3	7:AG:103:ASN:CA	2.76	0.41
1:AA:1373:G:O4'	7:AG:104:GLY:HA3	2.20	0.41
1:AA:1440:C:H2'	1:AA:1441:G:C5'	2.48	0.41
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.21	0.41
2:AT:167:LEU:N	2:AT:167:LEU:CD1	2.84	0.41
2:AT:202:VAL:CG1	2:AT:208:THR:O	2.68	0.41
2:AT:386:VAL:HG11	2:AT:437:MET:HE3	2.01	0.41
3:AB:121:ILE:HD11	3:AB:173:TRP:HE1	1.86	0.41
4:AC:11:VAL:CG1	4:AC:12:ALA:N	2.83	0.41
4:AC:140:LYS:N	4:AC:146:ALA:HA	2.25	0.41
5:AD:30:LEU:N	5:AD:30:LEU:HD22	2.36	0.41
6:AE:98:LYS:HD3	6:AE:116:THR:OG1	2.21	0.41
8:AH:76:PRO:HG3	8:AH:129:TYR:CG	2.55	0.41
9:AI:99:GLN:NE2	9:AI:115:LEU:HG	2.36	0.41
10:AJ:62:VAL:HG11	10:AJ:64:LYS:HZ1	1.86	0.41
11:AK:41:VAL:HG23	11:AK:43:GLY:H	1.84	0.41
11:AK:104:LEU:HD23	11:AK:104:LEU:HA	1.91	0.41
13:AM:66:LEU:HA	13:AM:69:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:71:GLN:HA	13:AM:71:GLN:OE1	2.21	0.41
13:AM:92:ILE:HG22	13:AM:94:ASP:O	2.20	0.41
13:AM:138:THR:HG21	17:AS:122:THR:HG22	1.77	0.41
18:B3:140:G:C8	18:B3:140:G:C3'	3.04	0.41
18:B3:251:C:H2'	18:B3:252:C:C6	2.56	0.41
18:B3:379:G:N2	31:BL:49:ARG:O	2.48	0.41
18:B3:394:G:H2'	18:B3:398:U:C6	2.56	0.41
18:B3:431:G:O2'	18:B3:432:G:H5'	2.20	0.41
18:B3:432:G:H5"	31:BL:115:LEU:HD22	2.03	0.41
18:B3:482:G:H4'	18:B3:508:A:N1	2.36	0.41
18:B3:520:A:C4'	18:B3:1322:G:OP1	2.64	0.41
18:B3:553:G:P	42:B0:71:HIS:HD2	2.44	0.41
18:B3:627:G:H2'	18:B3:2071:C:C4	2.56	0.41
18:B3:1039:G:H2'	18:B3:1040:A:O4'	2.20	0.41
18:B3:1227:C:C5'	32:BM:132:ARG:CZ	2.98	0.41
18:B3:1335:C:H5"	42:B0:96:ILE:O	2.19	0.41
18:B3:1673:U:C5'	39:BT:109:VAL:CG1	2.89	0.41
18:B3:1706:G:C6	18:B3:1707:G:C6	3.08	0.41
18:B3:1879:U:O3'	21:BB:9:LYS:HE2	2.20	0.41
18:B3:2049:C:OP1	33:BN:80:ALA:O	2.38	0.41
18:B3:2053:G:O6	33:BN:26:LYS:HD2	2.20	0.41
18:B3:2124:G:C1'	21:BB:229:VAL:HG11	2.41	0.41
18:B3:2459:G:OP1	46:BZ:66:LYS:CA	2.67	0.41
18:B3:2561:C:H5'	18:B3:2777:G:C4'	2.51	0.41
18:B3:2704:C:C4	27:BH:121:LYS:HD2	2.28	0.41
18:B3:2830:U:H1'	22:BC:126:LYS:CE	2.51	0.41
21:BB:45:LYS:HB3	21:BB:71:ARG:CZ	2.50	0.41
21:BB:76:ILE:CD1	21:BB:168:ILE:HD12	2.51	0.41
22:BC:19:LYS:O	22:BC:271:TYR:CE2	2.74	0.41
22:BC:20:ARG:CD	22:BC:268:GLN:HG3	2.41	0.41
22:BC:48:TYR:HE1	22:BC:78:VAL:HG21	1.86	0.41
22:BC:49:LYS:CE	22:BC:50:ALA:CA	2.98	0.41
22:BC:53:THR:HA	38:BS:17:ARG:HE	1.86	0.41
22:BC:81:PRO:CG	22:BC:204:VAL:H	2.32	0.41
23:BD:105:TRP:O	23:BD:105:TRP:CG	2.73	0.41
23:BD:181:LEU:HD11	23:BD:185:LYS:CB	2.51	0.41
23:BD:193:TYR:CD2	23:BD:193:TYR:O	2.74	0.41
25:BF:91:ILE:O	25:BF:91:ILE:HD13	2.21	0.41
25:BF:207:SER:HB2	25:BF:209:PRO:CD	2.48	0.41
27:BH:94:TYR:CD1	27:BH:94:TYR:C	2.94	0.41
28:BI:58:GLU:HB2	28:BI:59:GLN:H	1.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:153:ARG:HH22	28:BI:154:ARG:CG	2.32	0.41
29:BJ:71:ARG:NE	29:BJ:74:LYS:N	2.69	0.41
30:BK:128:VAL:HG23	30:BK:129:THR:N	2.34	0.41
30:BK:130:LYS:HD3	30:BK:130:LYS:HA	1.98	0.41
31:BL:142:ARG:O	31:BL:143:ARG:HG2	2.20	0.41
32:BM:56:PHE:HE2	32:BM:145:GLY:H	1.62	0.41
32:BM:68:GLY:HA3	32:BM:69:PRO:HA	1.73	0.41
32:BM:96:ALA:HB1	32:BM:100:ARG:HH12	1.86	0.41
32:BM:98:LEU:C	32:BM:101:LEU:HD13	2.40	0.41
32:BM:126:LEU:CD2	32:BM:126:LEU:N	2.83	0.41
32:BM:128:LEU:HB3	32:BM:131:GLY:C	2.40	0.41
33:BN:60:ARG:HD2	33:BN:61:ARG:N	2.36	0.41
33:BN:111:LEU:N	33:BN:111:LEU:CD1	2.83	0.41
33:BN:130:ARG:NH2	33:BN:133:GLY:HA2	2.35	0.41
34:BO:81:VAL:N	34:BO:101:VAL:HG21	2.30	0.41
36:BQ:75:ILE:CG2	36:BQ:89:LEU:CB	2.94	0.41
37:BR:10:LYS:C	37:BR:11:PHE:CD2	2.94	0.41
37:BR:127:PRO:C	37:BR:129:VAL:H	2.24	0.41
39:BT:66:ILE:HB	39:BT:83:PHE:HA	2.02	0.41
39:BT:104:VAL:HG13	39:BT:129:TYR:HB2	2.01	0.41
40:BU:39:LEU:CD2	40:BU:106:ILE:CD1	2.99	0.41
40:BU:51:ARG:HH11	40:BU:53:ASP:HB2	1.86	0.41
41:BV:75:ASP:O	41:BV:78:TRP:CD1	2.74	0.41
42:B0:40:SER:O	42:B0:41:VAL:HG12	2.21	0.41
42:B0:76:VAL:HG13	42:B0:81:ASP:OD1	2.21	0.41
42:B0:107:VAL:CG2	42:B0:108:ILE:N	2.82	0.41
45:BY:17:LEU:O	45:BY:26:PHE:CD1	2.73	0.41
45:BY:24:ARG:NH1	45:BY:24:ARG:HB3	2.35	0.41
46:BZ:21:GLN:HE21	46:BZ:21:GLN:HB3	1.54	0.41
46:BZ:78:THR:O	46:BZ:78:THR:HG23	2.20	0.41
47:B9:25:VAL:HG12	47:B9:26:LYS:N	2.36	0.41
1:AA:16:A:C2'	1:AA:17:U:H5'	2.51	0.41
1:AA:28:G:O2'	1:AA:295:C:O3'	2.39	0.41
1:AA:258:G:H2'	1:AA:259:G:H8	1.84	0.41
1:AA:667:G:H1'	15:AO:109:ASP:CG	2.37	0.41
1:AA:741:G:H4'	15:AO:113:ARG:HB2	1.27	0.41
1:AA:778:G:H3'	11:AK:126:ARG:CG	2.50	0.41
1:AA:961:U:C2'	1:AA:962:C:H5'	2.51	0.41
1:AA:1070:U:H2'	1:AA:1071:C:H6	1.86	0.41
1:AA:1086:U:O3'	1:AA:1389:C:O2'	2.30	0.41
1:AA:1318:A:C4	17:AS:82:ASN:OD1	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1350:A:C2'	7:AG:103:ASN:ND2	2.84	0.41
2:AT:83:ASP:O	2:AT:87:LYS:HG3	2.21	0.41
2:AT:108:HIS:O	2:AT:108:HIS:CD2	2.73	0.41
2:AT:386:VAL:HA	2:AT:387:PRO:HD3	1.88	0.41
2:AT:470:THR:HG21	2:AT:475:ALA:HB1	2.01	0.41
2:AT:659:ILE:CG2	2:AT:705:ILE:HD13	2.51	0.41
3:AB:28:VAL:CG2	3:AB:29:GLN:N	2.82	0.41
4:AC:12:ALA:O	4:AC:16:PHE:HD1	2.02	0.41
4:AC:15:VAL:CG1	4:AC:16:PHE:N	2.83	0.41
4:AC:55:GLN:CG	4:AC:56:ASP:N	2.83	0.41
5:AD:76:LEU:HD12	5:AD:79:ARG:NH1	2.36	0.41
7:AG:185:ASN:CB	7:AG:191:GLU:HB2	2.51	0.41
9:AI:45:PHE:CD2	9:AI:45:PHE:O	2.73	0.41
9:AI:48:TYR:HE1	9:AI:84:ILE:HD12	1.85	0.41
9:AI:97:ASP:HA	9:AI:102:ASN:N	2.33	0.41
10:AJ:26:LEU:HB2	10:AJ:89:ARG:HB2	2.02	0.41
10:AJ:63:LEU:HD12	10:AJ:63:LEU:N	2.36	0.41
12:AL:135:LEU:HD21	12:AL:144:ARG:HE	1.86	0.41
13:AM:15:LEU:CB	13:AM:66:LEU:CD1	2.97	0.41
13:AM:28:ILE:CG2	13:AM:29:VAL:N	2.84	0.41
17:AS:56:PHE:N	17:AS:80:MET:HE1	2.36	0.41
18:B3:95:A:H4'	18:B3:96:A:O5'	2.20	0.41
18:B3:99:A:C1'	40:BU:75:ARG:NH1	2.65	0.41
18:B3:207:U:H2'	18:B3:208:C:C6	2.56	0.41
18:B3:289:G:N2	18:B3:363:A:C2	2.61	0.41
18:B3:525:G:O4'	33:BN:115:HIS:HE1	2.03	0.41
18:B3:706:G:HO2'	18:B3:707:C:H6	1.69	0.41
18:B3:745:G:C5	34:BO:90:ASP:OD2	2.74	0.41
18:B3:1029:U:H5'	18:B3:1031:G:N7	2.36	0.41
18:B3:1163:G:C5'	30:BK:54:LYS:CG	2.99	0.41
18:B3:1190:A:H3'	18:B3:1190:A:N3	2.35	0.41
18:B3:1359:U:H5"	23:BD:91:ASN:HD22	1.85	0.41
18:B3:1453:G:H2'	18:B3:1454:U:O4'	2.20	0.41
18:B3:1461:U:H2'	18:B3:1462:C:H6	1.86	0.41
18:B3:1555:G:H4'	18:B3:1630:A:H2	1.85	0.41
18:B3:1592:G:C2'	35:BP:120:HIS:HE1	2.33	0.41
18:B3:1656:A:H2'	18:B3:1657:A:C8	2.56	0.41
18:B3:1672:G:C4'	39:BT:91:LYS:HG2	2.48	0.41
18:B3:1673:U:C1'	39:BT:91:LYS:CE	2.71	0.41
18:B3:1689:A:N1	33:BN:128:THR:CG2	2.42	0.41
18:B3:2249:G:C2	18:B3:2253:G:C6	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2253:G:O2'	18:B3:2254:G:H5'	2.20	0.41
18:B3:2334:C:N4	29:BJ:115:TYR:CB	2.83	0.41
18:B3:2424:U:O3'	36:BQ:6:GLY:CA	2.69	0.41
18:B3:2445:U:H2'	18:B3:2446:G:H8	1.85	0.41
18:B3:2662:G:N2	18:B3:2814:A:N7	2.68	0.41
18:B3:2820:A:C5'	22:BC:90:GLY:N	2.51	0.41
18:B3:2893:C:O2'	18:B3:2894:C:H5'	2.20	0.41
18:B3:2911:C:O2	22:BC:126:LYS:CD	2.69	0.41
20:BA:106:LYS:CG	20:BA:107:TYR:CE1	3.00	0.41
21:BB:17:SER:N	21:BB:192:ARG:HG2	2.35	0.41
21:BB:53:ARG:CD	21:BB:54:GLY:N	2.82	0.41
22:BC:84:VAL:CG1	22:BC:164:GLN:HE22	2.19	0.41
22:BC:89:VAL:CG2	22:BC:158:ARG:CG	2.99	0.41
22:BC:162:HIS:HD2	22:BC:175:ALA:HB2	1.85	0.41
22:BC:165:ILE:N	22:BC:165:ILE:CD1	2.83	0.41
22:BC:226:GLU:HG2	22:BC:227:GLY:H	1.85	0.41
22:BC:329:GLY:O	22:BC:330:ASN:HB3	2.21	0.41
22:BC:358:ILE:O	22:BC:358:ILE:HG23	2.21	0.41
23:BD:224:VAL:HG22	23:BD:225:GLU:N	2.36	0.41
24:BE:22:ARG:HD2	24:BE:22:ARG:HH11	1.66	0.41
24:BE:27:LYS:HB3	24:BE:27:LYS:HZ2	1.86	0.41
24:BE:40:HIS:O	24:BE:41:LYS:HE2	2.21	0.41
24:BE:75:LEU:HD11	24:BE:109:THR:CG2	2.48	0.41
24:BE:90:HIS:CD2	24:BE:91:GLY:N	2.86	0.41
24:BE:169:GLY:HA2	24:BE:226:TYR:HH	1.86	0.41
25:BF:102:LEU:N	25:BF:105:LEU:CD2	2.83	0.41
25:BF:146:LEU:O	25:BF:204:PHE:CE2	2.74	0.41
25:BF:220:LYS:O	25:BF:221:HIS:HB3	2.21	0.41
26:BG:152:ILE:CD1	26:BG:162:VAL:CB	2.99	0.41
26:BG:165:LEU:CD2	26:BG:165:LEU:N	2.84	0.41
26:BG:169:CYS:SG	26:BG:170:LYS:N	2.94	0.41
27:BH:44:THR:CB	27:BH:55:VAL:HG11	2.51	0.41
27:BH:78:MET:SD	27:BH:79:ILE:N	2.94	0.41
27:BH:144:ILE:HG13	27:BH:145:VAL:N	2.35	0.41
28:BI:131:ILE:H	28:BI:131:ILE:CD1	2.32	0.41
29:BJ:155:LYS:HA	29:BJ:158:THR:CG2	2.51	0.41
31:BL:104:ARG:NE	31:BL:104:ARG:CA	2.84	0.41
32:BM:26:LEU:HD21	32:BM:101:LEU:HD12	2.00	0.41
32:BM:26:LEU:HD21	32:BM:97:ALA:C	2.41	0.41
32:BM:55:ASP:C	32:BM:57:LEU:H	2.23	0.41
32:BM:76:SER:HB2	32:BM:103:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BN:115:HIS:O	33:BN:148:VAL:HG23	2.21	0.41
33:BN:127:ARG:N	33:BN:138:TYR:H	1.90	0.41
34:BO:95:GLU:HG3	34:BO:97:PRO:HG2	2.03	0.41
35:BP:91:GLN:CA	35:BP:94:TRP:CE3	2.94	0.41
36:BQ:83:ARG:HG2	36:BQ:84:TYR:N	2.23	0.41
37:BR:74:MET:CB	37:BR:75:PRO:CA	2.96	0.41
39:BT:91:LYS:N	39:BT:91:LYS:HE3	2.35	0.41
41:BV:11:ARG:CG	41:BV:12:GLY:N	2.83	0.41
41:BV:108:TYR:CG	41:BV:109:GLY:N	2.80	0.41
41:BV:137:ILE:HD13	41:BV:137:ILE:HA	1.87	0.41
42:B0:43:ARG:O	42:B0:44:ARG:HB2	2.21	0.41
42:B0:51:SER:HB3	42:B0:52:GLN:H	1.41	0.41
42:B0:65:PHE:CD2	42:B0:65:PHE:O	2.74	0.41
42:B0:71:HIS:HB2	42:B0:73:THR:CG2	2.51	0.41
1:AA:46:G:H4'	1:AA:47:C:P	2.61	0.41
1:AA:129(A):G:O2'	16:AQ:137:ASN:CA	2.69	0.41
1:AA:182:U:OP2	1:AA:183:G:C8	2.74	0.41
1:AA:190(E):U:H2'	16:AQ:130:ILE:CA	2.26	0.41
1:AA:224:C:H2'	1:AA:225:C:H6	1.86	0.41
1:AA:253:U:H2'	1:AA:254:G:C8	2.55	0.41
1:AA:333:G:N2	1:AA:1435:G:H4'	2.36	0.41
1:AA:497:A:O2'	1:AA:498:U:OP1	2.31	0.41
1:AA:567:G:H2'	1:AA:568:G:O4'	2.21	0.41
1:AA:628:G:O2'	1:AA:629:G:H5'	2.21	0.41
1:AA:939:G:C6	1:AA:940:C:N4	2.89	0.41
1:AA:965:A:O2'	1:AA:966:G:C5'	2.68	0.41
1:AA:1061:G:C2'	1:AA:1062:U:H5'	2.51	0.41
1:AA:1064:G:H1'	1:AA:1190:G:H21	1.85	0.41
1:AA:1110:A:O5'	1:AA:1110:A:H8	2.03	0.41
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.54	0.41
1:AA:1186:G:H4'	9:AI:127:LYS:CE	2.50	0.41
1:AA:1286:A:C3'	1:AA:1287:A:C5'	2.88	0.41
1:AA:1307:U:H6	13:AM:144:ARG:HH21	0.53	0.41
2:AT:106:PRO:HB2	2:AT:107:GLY:H	1.70	0.41
2:AT:220:PHE:HA	2:AT:224:GLN:OE1	2.21	0.41
2:AT:348:ALA:HB1	2:AT:352:ARG:HD3	2.03	0.41
2:AT:411:VAL:CG1	2:AT:412:ARG:N	2.84	0.41
2:AT:465:LYS:HB3	2:AT:515:ASP:N	2.36	0.41
3:AB:58:LEU:HD12	3:AB:61:ARG:CZ	2.51	0.41
3:AB:68:ASN:CB	3:AB:69:PRO:CD	2.99	0.41
3:AB:84:ALA:O	3:AB:88:PHE:CD2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:119:LEU:HD21	3:AB:143:ILE:CG2	2.51	0.41
4:AC:102:GLU:O	4:AC:106:PHE:CD2	2.73	0.41
4:AC:121:VAL:O	4:AC:125:VAL:HG23	2.21	0.41
4:AC:159:SER:C	4:AC:161:GLN:H	2.24	0.41
4:AC:181:LEU:N	4:AC:181:LEU:CD1	2.83	0.41
5:AD:29:LYS:HD2	5:AD:29:LYS:HA	1.88	0.41
5:AD:43:TYR:CD2	5:AD:48:GLN:O	2.74	0.41
5:AD:46:SER:O	5:AD:47:PHE:CG	2.74	0.41
5:AD:99:LEU:HD11	5:AD:101:VAL:HA	2.00	0.41
5:AD:156:ILE:CG2	5:AD:164:PHE:CZ	3.04	0.41
5:AD:175:ARG:N	5:AD:175:ARG:CD	2.83	0.41
6:AE:183:VAL:CG1	6:AE:187:LEU:CD1	2.99	0.41
9:AI:30:VAL:CG2	9:AI:66:VAL:CG1	2.95	0.41
9:AI:30:VAL:O	9:AI:38:VAL:HG21	2.21	0.41
9:AI:48:TYR:HD1	9:AI:51:LEU:HD11	1.85	0.41
9:AI:99:GLN:HA	9:AI:114:THR:HA	2.03	0.41
9:AI:117:ILE:HG12	9:AI:118:ALA:N	2.31	0.41
10:AJ:29:THR:CG2	10:AJ:30:LYS:N	2.83	0.41
10:AJ:116:VAL:CG1	10:AJ:117:VAL:N	2.83	0.41
11:AK:19:TYR:CZ	11:AK:84:ALA:HB2	2.55	0.41
11:AK:26:PHE:HD1	11:AK:41:VAL:HG13	1.83	0.41
11:AK:42:THR:CB	11:AK:58:ALA:HB1	2.51	0.41
11:AK:78:VAL:CG1	11:AK:79:HIS:N	2.83	0.41
12:AL:74:VAL:CG2	12:AL:83:VAL:CG2	2.98	0.41
13:AM:21:ASN:ND2	13:AM:35:ILE:HG23	2.36	0.41
13:AM:60:GLU:HA	13:AM:60:GLU:OE1	2.21	0.41
15:AO:112:PHE:HA	15:AO:115:ILE:CD1	2.49	0.41
16:AQ:92:TYR:O	16:AQ:92:TYR:CD2	2.74	0.41
17:AS:60:LEU:HD11	17:AS:83:MET:SD	2.61	0.41
17:AS:116:LEU:HA	17:AS:119:PHE:CD1	2.56	0.41
17:AS:121:ILE:CD1	17:AS:121:ILE:N	2.83	0.41
18:B3:24:G:N2	18:B3:518:G:H1'	2.35	0.41
18:B3:26:U:N1	18:B3:1319:G:C2'	2.84	0.41
18:B3:78:G:C1'	40:BU:25:SER:CB	2.99	0.41
18:B3:164:G:H5"	41:BV:31:ARG:HD2	2.03	0.41
18:B3:200:U:OP1	18:B3:200:U:C6	2.73	0.41
18:B3:243:A:H61	18:B3:269:G:C1'	2.33	0.41
18:B3:277:U:O2'	18:B3:278:A:H5'	2.21	0.41
18:B3:345:G:H2'	18:B3:346:U:H6	1.85	0.41
18:B3:657:G:O2'	23:BD:119:TYR:HE2	1.74	0.41
18:B3:772:G:N2	45:BY:48:TRP:HB3	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:797:A:C8	47:B9:12:LYS:HE2	2.55	0.41
18:B3:810:G:O2'	18:B3:811:C:H5'	2.21	0.41
18:B3:934:C:H2'	18:B3:935:G:C8	2.56	0.41
18:B3:1133:A:N3	18:B3:2501:G:N3	2.68	0.41
18:B3:1187:U:O2	18:B3:1189:A:C8	2.74	0.41
18:B3:1361:C:O2	23:BD:94:ARG:CD	2.69	0.41
18:B3:1555:G:O2'	18:B3:1556:G:H8	2.03	0.41
18:B3:1626:A:C2'	18:B3:1627:G:H5'	2.50	0.41
18:B3:1673:U:H1'	39:BT:91:LYS:CE	2.48	0.41
18:B3:1805:G:C2'	18:B3:2875:A:C8	2.54	0.41
18:B3:1808:C:OP1	18:B3:2885:A:C3'	2.65	0.41
18:B3:1808:C:P	18:B3:2885:A:C3'	3.09	0.41
18:B3:1809:G:OP1	18:B3:2866:U:P	2.78	0.41
18:B3:1861:C:H1'	21:BB:9:LYS:HG3	2.03	0.41
18:B3:2238:A:C2	18:B3:2239:C:C6	3.09	0.41
18:B3:2283:G:N2	28:BI:104:SER:O	2.53	0.41
18:B3:2309:C:H5"	28:BI:116:ARG:HG3	1.66	0.41
18:B3:2334:C:O2'	18:B3:2335:C:H5'	2.21	0.41
18:B3:2347:C:C1'	29:BJ:66:VAL:HG13	2.21	0.41
18:B3:2396:C:C1'	41:BV:46:LYS:HD3	2.50	0.41
18:B3:2438:G:C8	46:BZ:14:LYS:HD2	2.55	0.41
18:B3:2457:U:O3'	46:BZ:84:LEU:N	2.54	0.41
18:B3:2671:U:OP1	22:BC:178:ALA:CA	2.62	0.41
18:B3:2734:G:OP1	35:BP:79:LYS:HA	2.20	0.41
18:B3:2824:C:O3'	18:B3:2825:C:H6	2.04	0.41
18:B3:2825:C:C2	18:B3:2826:G:C5	3.09	0.41
18:B3:2877:G:N2	18:B3:2879:A:H3'	2.36	0.41
18:B3:2913:A:C2	22:BC:125:LYS:O	2.74	0.41
19:B4:68:G:H21	24:BE:12:TYR:H	1.69	0.41
19:B4:76:G:C8	19:B4:77:A:H2'	2.55	0.41
19:B4:117:G:C2'	24:BE:69:ILE:HG22	2.47	0.41
20:BA:90:LEU:HD11	20:BA:120:VAL:HA	2.02	0.41
20:BA:157:PHE:CE2	20:BA:165:LEU:CD2	2.94	0.41
21:BB:62:PHE:CD2	21:BB:63:ARG:O	2.73	0.41
21:BB:142:GLU:HG3	21:BB:144:LYS:HD2	2.00	0.41
22:BC:52:MET:SD	22:BC:77:VAL:CG1	3.06	0.41
22:BC:122:TYR:CG	22:BC:123:LYS:N	2.89	0.41
22:BC:229:THR:CG2	22:BC:246:ARG:CG	2.95	0.41
22:BC:236:LYS:CB	22:BC:237:LEU:HD23	2.51	0.41
22:BC:241:THR:HG21	22:BC:247:LYS:CE	2.51	0.41
22:BC:247:LYS:O	22:BC:247:LYS:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:260:MET:HB3	32:BM:66:THR:CB	2.45	0.41
22:BC:303:THR:CG2	22:BC:304:ILE:N	2.83	0.41
23:BD:7:VAL:HG13	23:BD:17:ASN:H	1.85	0.41
23:BD:9:SER:HB3	23:BD:15:THR:HG21	1.98	0.41
23:BD:10:LEU:N	23:BD:10:LEU:CD2	2.84	0.41
23:BD:22:PRO:HG2	23:BD:25:PHE:CD2	2.56	0.41
23:BD:59:THR:HA	23:BD:83:ARG:CD	2.51	0.41
23:BD:123:SER:HA	23:BD:126:ALA:CB	2.51	0.41
23:BD:153:THR:CG2	23:BD:154:ASP:N	2.83	0.41
23:BD:219:ARG:HD2	23:BD:219:ARG:O	2.21	0.41
23:BD:255:THR:CG2	23:BD:256:LYS:N	2.80	0.41
24:BE:29:ASP:C	24:BE:30:TYR:CD2	2.94	0.41
24:BE:31:TYR:O	24:BE:31:TYR:CG	2.73	0.41
24:BE:36:LEU:HD22	24:BE:50:ARG:HG2	2.03	0.41
24:BE:44:TYR:CE2	24:BE:45:ASN:O	2.74	0.41
24:BE:46:THR:HG1	24:BE:48:LYS:C	2.24	0.41
24:BE:86:TYR:N	24:BE:86:TYR:CD1	2.88	0.41
24:BE:113:LEU:HD22	24:BE:114:GLY:CA	2.51	0.41
25:BF:116:VAL:CG1	25:BF:122:THR:HG23	2.51	0.41
25:BF:130:GLU:H	25:BF:131:PRO:HD2	1.86	0.41
25:BF:169:GLU:OE2	25:BF:175:TYR:CD1	2.74	0.41
25:BF:233:GLU:CD	25:BF:236:ASN:HB2	2.41	0.41
26:BG:105:LYS:HA	26:BG:105:LYS:CE	2.50	0.41
26:BG:112:ALA:CB	26:BG:213:LEU:HD12	2.51	0.41
26:BG:160:GLU:OE1	26:BG:163:VAL:HB	2.20	0.41
26:BG:161:LEU:HD23	26:BG:161:LEU:HA	1.95	0.41
27:BH:44:THR:HB	27:BH:55:VAL:HG11	2.03	0.41
27:BH:109:ALA:O	27:BH:111:PHE:CD2	2.74	0.41
27:BH:117:PHE:HZ	27:BH:122:LYS:O	2.03	0.41
28:BI:39:LYS:HB3	28:BI:40:LYS:H	1.60	0.41
28:BI:69:ARG:NH1	28:BI:70:ILE:CA	2.84	0.41
28:BI:112:GLN:NE2	28:BI:112:GLN:HA	2.36	0.41
28:BI:135:ILE:N	28:BI:135:ILE:CD1	2.82	0.41
28:BI:153:ARG:HH12	28:BI:154:ARG:CG	2.33	0.41
28:BI:154:ARG:NH2	28:BI:155:ALA:CB	2.83	0.41
28:BI:157:TYR:CG	28:BI:157:TYR:O	2.74	0.41
29:BJ:8:MET:CG	29:BJ:9:ARG:N	2.81	0.41
29:BJ:17:VAL:O	29:BJ:17:VAL:HG13	2.21	0.41
29:BJ:71:ARG:NE	29:BJ:72:GLY:CA	2.84	0.41
30:BK:63:LYS:O	30:BK:70:ALA:HA	2.20	0.41
30:BK:83:THR:CG2	30:BK:84:ALA:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BK:98:VAL:HG13	30:BK:142:ARG:HB2	2.02	0.41
30:BK:117:ARG:HD2	30:BK:118:ASP:CA	2.50	0.41
31:BL:175:LYS:HE3	31:BL:176:GLY:N	2.21	0.41
33:BN:40:LEU:HD23	33:BN:111:LEU:O	2.20	0.41
33:BN:93:LEU:CG	33:BN:94:LEU:N	2.82	0.41
33:BN:113:VAL:HG22	33:BN:115:HIS:O	2.21	0.41
34:BO:30:VAL:CG2	34:BO:31:LYS:N	2.82	0.41
34:BO:40:THR:CG2	34:BO:41:ASP:N	2.82	0.41
34:BO:52:LEU:HD23	34:BO:52:LEU:HA	1.84	0.41
34:BO:95:GLU:CG	34:BO:97:PRO:HD2	2.28	0.41
34:BO:130:ARG:NE	34:BO:132:PRO:N	2.69	0.41
35:BP:7:LYS:HZ3	35:BP:8:ARG:HA	1.86	0.41
35:BP:37:ARG:NE	35:BP:37:ARG:CA	2.84	0.41
35:BP:52:LYS:CE	35:BP:52:LYS:N	2.83	0.41
35:BP:69:LYS:HG3	35:BP:70:ARG:N	2.35	0.41
35:BP:92:VAL:O	35:BP:95:ILE:HD13	2.21	0.41
35:BP:94:TRP:CE3	35:BP:95:ILE:CD1	3.00	0.41
36:BQ:43:LYS:N	36:BQ:95:HIS:CE1	2.89	0.41
37:BR:80:ARG:HB3	37:BR:80:ARG:NH1	2.36	0.41
39:BT:80:ILE:HD11	39:BT:132:LEU:HD22	2.02	0.41
40:BU:40:ARG:CG	40:BU:41:ALA:N	2.83	0.41
40:BU:57:LEU:CD2	40:BU:105:VAL:HB	2.51	0.41
40:BU:72:SER:HB2	40:BU:81:GLN:HB2	1.99	0.41
41:BV:95:LYS:O	41:BV:123:ILE:HD11	2.20	0.41
42:B0:32:TRP:CZ2	42:B0:53:PRO:CG	3.03	0.41
42:B0:39:ASP:HA	42:B0:44:ARG:HD3	2.02	0.41
42:B0:72:LYS:O	42:B0:93:ALA:HB3	2.20	0.41
42:B0:79:VAL:HG23	42:B0:109:LEU:CD2	2.26	0.41
42:B0:112:ALA:HB1	42:B0:117:ILE:CD1	2.47	0.41
43:BW:22:VAL:CG1	43:BW:25:LYS:HG2	2.32	0.41
43:BW:58:ILE:O	43:BW:59:TRP:CD2	2.74	0.41
44:BX:31:LEU:HD11	44:BX:40:SER:CB	2.51	0.41
45:BY:27:HIS:C	45:BY:30:LYS:CE	2.90	0.41
45:BY:28:VAL:N	45:BY:30:LYS:HE2	2.36	0.41
46:BZ:25:THR:HG22	46:BZ:70:ARG:O	2.21	0.41
46:BZ:60:LYS:HZ3	46:BZ:62:LYS:CA	2.34	0.41
47:B9:9:ILE:N	47:B9:26:LYS:HG3	2.36	0.41
47:B9:22:ARG:HE	47:B9:24:GLN:N	2.07	0.41
1:AA:25:C:P	12:AL:39:LYS:CE	3.02	0.41
1:AA:570:G:H1'	1:AA:820:U:C4	2.56	0.41
1:AA:589:C:OP1	8:AH:5:VAL:HG21	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:621:A:H2'	1:AA:622:A:H8	1.85	0.41
1:AA:647:C:H2'	1:AA:648:A:C8	2.54	0.41
1:AA:958:A:N3	17:AS:101:ALA:CA	2.82	0.41
1:AA:1070:U:C5'	6:AE:90:ARG:HB3	2.38	0.41
1:AA:1096:C:H2'	1:AA:1097:C:C6	2.54	0.41
1:AA:1128:C:C2	1:AA:1144:G:N2	2.89	0.41
1:AA:1224:G:H5'	13:AM:139:LYS:HD3	2.02	0.41
1:AA:1372:U:C5'	9:AI:74:VAL:CB	2.95	0.41
3:AB:174:TYR:CD1	3:AB:174:TYR:C	2.94	0.41
4:AC:97:ALA:C	4:AC:170:ALA:CB	2.90	0.41
5:AD:30:LEU:O	5:AD:31:ALA:HB3	2.21	0.41
5:AD:180:LYS:HD2	5:AD:180:LYS:H	1.85	0.41
8:AH:33:ILE:HD13	8:AH:37:LEU:HG	2.03	0.41
9:AI:26:GLY:O	9:AI:59:PHE:CZ	2.74	0.41
10:AJ:24:ILE:HG22	10:AJ:26:LEU:CD1	2.50	0.41
10:AJ:62:VAL:HG11	10:AJ:83:GLU:CG	2.51	0.41
12:AL:55:GLU:OE1	12:AL:57:LEU:HD21	2.21	0.41
13:AM:18:LEU:N	13:AM:18:LEU:CD2	2.83	0.41
13:AM:18:LEU:HG	13:AM:101:LEU:CD1	2.51	0.41
13:AM:69:ILE:HA	13:AM:72:ILE:HG22	2.02	0.41
13:AM:77:THR:O	13:AM:79:TYR:CD2	2.74	0.41
14:AN:30:VAL:HG11	14:AN:33:TYR:HD1	1.86	0.41
15:AO:120:ARG:HD2	15:AO:123:ARG:NH2	2.36	0.41
18:B3:67:A:H1'	39:BT:60:LYS:HE3	2.03	0.41
18:B3:195:C:H4'	31:BL:178:LYS:HE2	2.03	0.41
18:B3:282:C:C2'	18:B3:283:U:C5'	2.99	0.41
18:B3:314:G:H21	18:B3:337:A:H62	1.69	0.41
18:B3:512:G:O3'	18:B3:513:A:H8	2.04	0.41
18:B3:540:A:O5'	42:B0:15:LYS:NZ	2.53	0.41
18:B3:545:G:H5'	18:B3:545:G:C8	2.47	0.41
18:B3:1018:A:O2'	36:BQ:60:LYS:CD	2.66	0.41
18:B3:1029:U:O2'	18:B3:1273:C:OP1	2.30	0.41
18:B3:1054:G:C5	28:BI:110:ARG:CD	3.04	0.41
18:B3:1091:U:H5'	42:B0:57:TYR:HA	2.03	0.41
18:B3:1269:G:H2'	18:B3:1270:U:C6	2.56	0.41
18:B3:1288:U:H5'	25:BF:108:THR:HG21	2.02	0.41
18:B3:1538:C:O2'	18:B3:1539:U:H5'	2.21	0.41
18:B3:1764:C:H2'	18:B3:1765:G:O4'	2.21	0.41
18:B3:1773:G:H1'	47:B9:13:TYR:O	2.20	0.41
18:B3:2087:C:C5'	33:BN:78:THR:CG2	2.48	0.41
18:B3:2382:A:C1'	46:BZ:10:TYR:HD2	2.31	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:2563:U:O2'	18:B3:2564:G:H3'	2.20	0.41
18:B3:2640:U:H2'	18:B3:2641:C:C6	2.56	0.41
18:B3:2806:C:C5'	22:BC:343:THR:HA	2.49	0.41
18:B3:2863:G:OP1	38:BS:35:LYS:HA	2.21	0.41
19:B4:36:C:N1	24:BE:181:PRO:HB3	2.36	0.41
20:BA:9:VAL:HG23	20:BA:10:ARG:N	2.36	0.41
20:BA:90:LEU:HD23	20:BA:90:LEU:O	2.21	0.41
21:BB:15:PHE:O	21:BB:15:PHE:CG	2.74	0.41
21:BB:31:LEU:HD22	21:BB:36:ARG:CB	2.51	0.41
21:BB:67:LYS:HG3	21:BB:72:GLU:O	2.21	0.41
21:BB:91:LYS:HA	21:BB:101:LEU:HD23	2.02	0.41
21:BB:103:LEU:HD13	21:BB:106:VAL:HG12	2.02	0.41
21:BB:162:ARG:NE	21:BB:162:ARG:N	2.69	0.41
22:BC:156:VAL:HG23	22:BC:156:VAL:O	2.20	0.41
22:BC:206:SER:O	22:BC:208:PHE:HD1	2.04	0.41
22:BC:251:ILE:CG2	22:BC:263:VAL:CG2	2.95	0.41
23:BD:229:VAL:HG21	23:BD:255:THR:O	2.20	0.41
24:BE:103:LEU:O	24:BE:226:TYR:CE1	2.74	0.41
24:BE:176:SER:O	24:BE:180:PHE:CE1	2.75	0.41
25:BF:146:LEU:HD23	25:BF:149:LYS:HZ1	1.85	0.41
25:BF:178:LEU:HD22	25:BF:180:ILE:HD11	2.03	0.41
26:BG:163:VAL:HG22	31:BL:17:VAL:HG21	2.02	0.41
26:BG:203:ARG:CZ	26:BG:207:GLU:HG2	2.51	0.41
27:BH:37:ASN:O	27:BH:38:LEU:HB2	2.21	0.41
27:BH:43:VAL:CG2	32:BM:126:LEU:CB	2.96	0.41
27:BH:115:ARG:O	27:BH:117:PHE:CE1	2.74	0.41
27:BH:129:ARG:HD3	27:BH:153:ASP:HB2	2.03	0.41
27:BH:146:LEU:N	27:BH:146:LEU:CD2	2.83	0.41
27:BH:171:ASP:O	27:BH:175:PHE:CE1	2.74	0.41
28:BI:91:VAL:CG2	28:BI:92:HIS:N	2.82	0.41
29:BJ:47:SER:HA	29:BJ:64:ILE:HG22	2.02	0.41
29:BJ:68:VAL:HG12	29:BJ:69:THR:O	2.21	0.41
29:BJ:100:ASN:HD22	29:BJ:100:ASN:HA	1.50	0.41
31:BL:58:PHE:CD1	31:BL:132:ILE:HG21	2.56	0.41
31:BL:63:VAL:O	31:BL:128:TYR:CD2	2.74	0.41
31:BL:80:TYR:O	31:BL:80:TYR:CD1	2.74	0.41
31:BL:185:GLY:CA	31:BL:188:LYS:HE3	2.51	0.41
31:BL:186:ARG:CD	31:BL:187:ARG:HB3	2.51	0.41
32:BM:36:ARG:HE	32:BM:36:ARG:HB2	1.67	0.41
32:BM:45:GLU:CD	32:BM:46:PHE:CE2	2.95	0.41
32:BM:128:LEU:HD22	32:BM:128:LEU:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BO:123:THR:CG2	34:BO:125:ASP:HB2	2.50	0.41
34:BO:130:ARG:CZ	34:BO:132:PRO:CB	2.99	0.41
35:BP:23:LEU:HD21	35:BP:31:ILE:HD11	2.02	0.41
35:BP:125:GLU:OE2	35:BP:130:ALA:HB2	2.20	0.41
36:BQ:61:THR:O	36:BQ:78:LYS:HB2	2.20	0.41
40:BU:60:ARG:CG	40:BU:103:LYS:CB	2.99	0.41
40:BU:62:SER:HB3	40:BU:63:LYS:NZ	2.36	0.41
40:BU:89:LYS:HD3	40:BU:92:GLY:H	1.85	0.41
41:BV:68:TRP:CD1	41:BV:106:ALA:O	2.74	0.41
41:BV:123:ILE:O	41:BV:123:ILE:HG12	2.21	0.41
42:B0:19:ARG:NH1	42:B0:32:TRP:NE1	2.69	0.41
42:B0:100:ILE:CD1	42:B0:100:ILE:N	2.83	0.41
44:BX:47:VAL:CG1	44:BX:48:ARG:N	2.82	0.41
44:BX:48:ARG:HE	44:BX:48:ARG:HB3	1.72	0.41
46:BZ:69:LEU:HG	46:BZ:69:LEU:O	2.21	0.41
1:AA:11:G:C2'	1:AA:525:C:H1'	2.51	0.40
1:AA:24:U:O3'	12:AL:39:LYS:HE3	2.19	0.40
1:AA:619:U:H6	5:AD:142:ASN:ND2	2.19	0.40
1:AA:728:A:H2'	1:AA:729:A:C8	2.56	0.40
1:AA:769:G:H4'	1:AA:1513:A:H4'	2.03	0.40
1:AA:958:A:N3	17:AS:101:ALA:CB	2.62	0.40
1:AA:1127:G:N2	1:AA:1144:G:N2	2.69	0.40
1:AA:1162:C:H2'	1:AA:1163:C:H6	1.86	0.40
1:AA:1221:G:C8	17:AS:79:HIS:CA	2.85	0.40
1:AA:1340:A:C2'	9:AI:141:TYR:CE1	2.81	0.40
1:AA:1406:U:C2	1:AA:1518:A:C5'	2.96	0.40
2:AT:108:HIS:HB2	2:AT:536:LEU:CD2	2.51	0.40
2:AT:140:GLU:CB	2:AT:481:MET:SD	2.51	0.40
2:AT:644:ASN:HD22	2:AT:684:VAL:HB	1.85	0.40
3:AB:150:SER:HA	3:AB:151:PRO:HD3	1.90	0.40
4:AC:58:LEU:CG	4:AC:62:GLY:HA2	2.51	0.40
6:AE:93:GLN:O	6:AE:93:GLN:HG3	2.21	0.40
6:AE:156:LYS:O	8:AH:127:PHE:CZ	2.74	0.40
8:AH:100:TYR:CD1	8:AH:100:TYR:C	2.95	0.40
9:AI:8:THR:CB	9:AI:86:LYS:HB3	2.51	0.40
9:AI:99:GLN:CB	9:AI:114:THR:HA	2.51	0.40
12:AL:40:SER:C	12:AL:42:PRO:HD3	2.36	0.40
12:AL:103:LEU:HB2	12:AL:125:VAL:HG12	2.03	0.40
13:AM:86:LEU:CD2	13:AM:98:TYR:HB2	2.40	0.40
13:AM:91:ASP:HB3	13:AM:113:LEU:N	2.36	0.40
16:AQ:109:HIS:CG	16:AQ:130:ILE:HD13	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:157:G:HO2'	31:BL:95:ARG:HH22	1.65	0.40
18:B3:538:C:P	42:B0:21:HIS:CD2	3.14	0.40
18:B3:694:A:H2'	18:B3:695:C:H5'	2.03	0.40
18:B3:1116:U:O5'	18:B3:1225:C:N3	2.45	0.40
18:B3:1308:A:H1'	23:BD:239:PRO:HB2	2.01	0.40
18:B3:1348:A:H2'	23:BD:39:THR:OG1	2.17	0.40
18:B3:1382:G:HO2'	43:BW:26:LYS:CG	2.13	0.40
18:B3:1388:U:H2'	18:B3:1389:G:O4'	2.21	0.40
18:B3:1742:A:P	18:B3:2723:G:O3'	2.78	0.40
18:B3:1782:G:O2'	18:B3:1783:A:H5'	2.21	0.40
18:B3:1809:G:H22	18:B3:2732:U:H4'	1.84	0.40
18:B3:1815:A:C4	18:B3:2734:G:N1	2.83	0.40
18:B3:1821:A:O2'	18:B3:1822:A:H5'	2.21	0.40
18:B3:1993:C:C4'	37:BR:72:LYS:N	2.85	0.40
18:B3:2089:A:C5'	33:BN:68:ARG:NH2	2.78	0.40
18:B3:2120:U:H2'	18:B3:2121:G:O4'	2.21	0.40
18:B3:2653:A:C4'	22:BC:256:PRO:CB	2.87	0.40
18:B3:2819:C:H2'	22:BC:100:SER:HB2	2.02	0.40
18:B3:2845:G:O2'	18:B3:2846:C:H5'	2.20	0.40
19:B4:50:G:O4'	24:BE:94:ASN:CA	2.64	0.40
20:BA:30:GLU:HG2	20:BA:209:SER:HB2	2.03	0.40
20:BA:59:PRO:HD2	20:BA:153:SER:HA	2.03	0.40
20:BA:59:PRO:HB2	20:BA:61:PRO:HD2	2.03	0.40
21:BB:75:PHE:CD2	21:BB:76:ILE:O	2.74	0.40
22:BC:72:VAL:HA	37:BR:87:ARG:NH1	2.36	0.40
22:BC:253:ALA:O	22:BC:254:TRP:CG	2.74	0.40
23:BD:30:ARG:HG3	23:BD:33:ILE:CD1	2.45	0.40
23:BD:123:SER:O	23:BD:124:ALA:CB	2.69	0.40
24:BE:144:VAL:CG1	24:BE:145:PHE:N	2.83	0.40
25:BF:98:PRO:HA	25:BF:101:VAL:HG12	2.04	0.40
26:BG:186:GLY:HA3	26:BG:194:SER:HA	2.04	0.40
26:BG:188:LEU:HD23	26:BG:188:LEU:HA	1.57	0.40
27:BH:40:HIS:HB2	27:BH:41:ILE:CD1	2.50	0.40
27:BH:78:MET:CE	27:BH:79:ILE:CG1	2.94	0.40
27:BH:140:VAL:CG2	27:BH:141:LYS:H	2.34	0.40
28:BI:15:LYS:HG2	28:BI:16:PRO:HD3	2.03	0.40
28:BI:48:LEU:HD23	28:BI:48:LEU:C	2.38	0.40
28:BI:92:HIS:O	28:BI:94:PHE:CD1	2.75	0.40
28:BI:96:VAL:HG12	28:BI:97:LEU:N	2.36	0.40
28:BI:112:GLN:HB3	28:BI:112:GLN:HE22	1.32	0.40
28:BI:146:ASP:OD2	28:BI:149:VAL:HB	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BJ:16:LEU:CD1	29:BJ:16:LEU:N	2.83	0.40
30:BK:112:ILE:CB	30:BK:132:ILE:HD13	2.51	0.40
31:BL:148:ASN:O	31:BL:149:TRP:CD2	2.74	0.40
31:BL:158:ARG:CG	31:BL:159:GLU:N	2.83	0.40
32:BM:85:GLY:O	32:BM:86:MET:HB2	2.21	0.40
32:BM:108:PRO:HA	32:BM:109:PRO:HD3	1.86	0.40
33:BN:38:TRP:CE3	33:BN:42:LYS:CG	2.95	0.40
33:BN:107:ASP:HB2	33:BN:110:LYS:HG2	2.04	0.40
34:BO:115:VAL:CG1	34:BO:116:LYS:N	2.81	0.40
34:BO:122:ILE:HD12	34:BO:122:ILE:C	2.41	0.40
34:BO:135:GLN:HA	34:BO:135:GLN:NE2	2.36	0.40
35:BP:20:LYS:CA	35:BP:51:LYS:HG2	2.50	0.40
35:BP:117:HIS:CB	35:BP:118:LEU:HD12	2.46	0.40
35:BP:118:LEU:N	35:BP:118:LEU:CD1	2.83	0.40
36:BQ:92:ARG:HG3	36:BQ:93:VAL:HG22	2.02	0.40
37:BR:62:VAL:H	37:BR:62:VAL:HG22	1.49	0.40
37:BR:95:PHE:HE2	38:BS:28:ILE:HB	1.86	0.40
39:BT:83:PHE:CG	39:BT:83:PHE:O	2.73	0.40
39:BT:95:LYS:O	39:BT:98:VAL:HB	2.20	0.40
44:BX:20:GLN:H	44:BX:23:ASP:CG	2.25	0.40
44:BX:24:LEU:HA	44:BX:24:LEU:HD13	1.70	0.40
45:BY:9:LYS:CE	45:BY:10:ARG:N	2.83	0.40
47:B9:28:LEU:CD1	47:B9:28:LEU:N	2.83	0.40
47:B9:54:TRP:O	47:B9:54:TRP:CD1	2.74	0.40
1:AA:265:G:H4'	16:AQ:131:SER:N	2.35	0.40
1:AA:382:A:C2	1:AA:383:A:C4	3.09	0.40
1:AA:397:A:H5'	1:AA:398:C:P	2.61	0.40
1:AA:405:U:P	5:AD:37:LYS:CG	3.09	0.40
1:AA:615:C:H5"	5:AD:149:ARG:HB3	0.89	0.40
1:AA:676:A:C8	11:AK:121:PRO:HD2	2.55	0.40
1:AA:979:C:HO2'	17:AS:58:LYS:HE3	1.78	0.40
1:AA:1022:G:HO2'	1:AA:1023:G:H8	1.67	0.40
1:AA:1128:C:O2'	1:AA:1130:A:C8	2.65	0.40
1:AA:1249:C:H1'	9:AI:73:HIS:CG	2.52	0.40
1:AA:1262:C:C2	1:AA:1263:C:C5	3.09	0.40
1:AA:1276:G:O2'	1:AA:1277:C:H5'	2.22	0.40
1:AA:1300:G:C2'	1:AA:1301:U:OP2	2.70	0.40
1:AA:1346:A:N1	1:AA:1374:A:H5"	2.36	0.40
2:AT:108:HIS:CB	2:AT:536:LEU:HD21	2.49	0.40
2:AT:750:LYS:HB3	2:AT:776:GLU:HB3	2.03	0.40
6:AE:107:ASN:HA	6:AE:143:TRP:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:99:ASN:N	7:AG:99:ASN:HD22	2.20	0.40
8:AH:78:PHE:CD2	8:AH:79:ASN:O	2.74	0.40
10:AJ:22:ILE:CD1	10:AJ:96:PRO:HB3	2.51	0.40
11:AK:13:PHE:HZ	11:AK:79:HIS:CE1	2.39	0.40
13:AM:46:VAL:HG11	13:AM:73:MET:CG	2.51	0.40
17:AS:69:GLU:CG	17:AS:70:ASN:N	2.85	0.40
18:B3:166:A:N3	41:BV:42:ILE:HD13	2.36	0.40
18:B3:187:A:C6	18:B3:188:C:N3	2.89	0.40
18:B3:492:C:O2'	33:BN:99:ALA:C	2.60	0.40
18:B3:1019:C:C5'	36:BQ:78:LYS:HG3	2.51	0.40
18:B3:1306:U:C5	23:BD:194:ARG:CZ	2.88	0.40
18:B3:1344:G:OP2	23:BD:192:LYS:CG	2.69	0.40
18:B3:1396:C:O4'	35:BP:2:ASN:CB	2.69	0.40
18:B3:1540:G:O2'	18:B3:1541:G:H5'	2.21	0.40
18:B3:1555:G:C4'	18:B3:1630:A:H2	2.35	0.40
18:B3:1788:U:N3	18:B3:2882:G:O2'	2.29	0.40
18:B3:1805:G:H22	18:B3:2882:G:HO2'	1.57	0.40
18:B3:1808:C:C6	18:B3:2884:G:H5"	2.55	0.40
18:B3:2038:A:OP2	22:BC:236:LYS:HG2	2.21	0.40
18:B3:2318:C:OP1	46:BZ:88:LYS:HG2	2.21	0.40
18:B3:2336:G:C4'	29:BJ:101:PHE:CD2	3.01	0.40
18:B3:2663:U:C2	18:B3:2816:A:N1	2.88	0.40
18:B3:2765:C:H3'	37:BR:12:ARG:CZ	2.51	0.40
18:B3:2809:G:C4'	22:BC:16:LEU:H	2.33	0.40
18:B3:2880:A:H2'	18:B3:2881:C:O4'	2.21	0.40
19:B4:48:C:N1	24:BE:158:ARG:HG3	2.36	0.40
20:BA:5:THR:CG2	20:BA:8:GLN:H	2.32	0.40
20:BA:5:THR:HG22	20:BA:8:GLN:CD	2.42	0.40
20:BA:54:LYS:N	20:BA:157:PHE:CB	2.64	0.40
20:BA:99:LEU:HD22	20:BA:99:LEU:H	1.86	0.40
20:BA:107:TYR:CD1	20:BA:107:TYR:N	2.89	0.40
21:BB:53:ARG:HG2	21:BB:55:ALA:O	2.21	0.40
21:BB:116:GLU:N	21:BB:162:ARG:CD	2.82	0.40
21:BB:171:GLY:C	47:B9:67:ALA:CB	2.88	0.40
22:BC:37:SER:HB2	22:BC:183:ASN:O	2.21	0.40
22:BC:48:TYR:CE1	22:BC:78:VAL:HG21	2.56	0.40
22:BC:60:ASP:O	22:BC:62:PRO:HD2	2.21	0.40
22:BC:81:PRO:CB	22:BC:82:PRO:CA	2.99	0.40
22:BC:109:LEU:HD23	22:BC:118:TYR:CE1	2.56	0.40
22:BC:206:SER:O	22:BC:208:PHE:CD1	2.74	0.40
22:BC:225:PHE:CD1	22:BC:225:PHE:O	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:229:THR:N	22:BC:234:THR:HG22	2.35	0.40
23:BD:34:VAL:O	23:BD:38:PHE:CE1	2.74	0.40
23:BD:57:HIS:O	23:BD:83:ARG:HD3	2.21	0.40
23:BD:181:LEU:HB3	23:BD:183:SER:O	2.20	0.40
24:BE:197:SER:O	24:BE:223:PHE:CE1	2.74	0.40
27:BH:46:THR:CA	27:BH:55:VAL:CG2	2.95	0.40
27:BH:54:LYS:NZ	27:BH:72:LYS:HD2	2.37	0.40
27:BH:175:PHE:O	27:BH:175:PHE:CG	2.71	0.40
28:BI:88:ARG:HG3	28:BI:90:ARG:HH12	1.86	0.40
28:BI:136:PHE:O	28:BI:136:PHE:CD1	2.74	0.40
29:BJ:71:ARG:CZ	29:BJ:71:ARG:C	2.89	0.40
29:BJ:163:LYS:HA	29:BJ:167:ASP:O	2.21	0.40
30:BK:40:LYS:HD3	30:BK:40:LYS:O	2.21	0.40
30:BK:108:GLU:HA	30:BK:111:GLU:CG	2.51	0.40
31:BL:10:GLN:HG2	31:BL:46:LYS:HZ1	1.85	0.40
31:BL:105:VAL:HG12	31:BL:133:LEU:HD11	2.03	0.40
32:BM:45:GLU:OE2	32:BM:46:PHE:CE2	2.74	0.40
33:BN:25:PHE:CZ	33:BN:28:THR:HG23	2.56	0.40
33:BN:69:THR:HG22	33:BN:70:ALA:O	2.22	0.40
33:BN:109:THR:CG2	33:BN:110:LYS:N	2.82	0.40
35:BP:8:ARG:HH22	35:BP:18:LYS:CE	2.34	0.40
35:BP:22:TRP:CE2	35:BP:49:ILE:HA	2.52	0.40
35:BP:41:ARG:H	35:BP:43:LEU:HD22	1.85	0.40
35:BP:114:ILE:CG1	35:BP:118:LEU:HB2	2.51	0.40
37:BR:15:LEU:HD22	37:BR:15:LEU:H	1.86	0.40
37:BR:22:ILE:HG23	37:BR:33:ASN:HD22	1.85	0.40
38:BS:23:ARG:HD2	38:BS:28:ILE:HG12	2.02	0.40
39:BT:125:LEU:HD23	39:BT:125:LEU:HA	1.71	0.40
40:BU:15:ALA:O	40:BU:16:ARG:HB2	2.20	0.40
40:BU:28:ARG:HG3	40:BU:29:VAL:N	2.37	0.40
40:BU:38:GLU:HG3	40:BU:39:LEU:H	1.86	0.40
40:BU:58:VAL:CG1	40:BU:66:GLN:H	2.33	0.40
41:BV:9:LYS:HD3	41:BV:9:LYS:H	1.86	0.40
42:B0:15:LYS:HD2	42:B0:16:LYS:O	2.21	0.40
42:B0:41:VAL:CG1	42:B0:42:VAL:H	2.27	0.40
44:BX:40:SER:HB3	44:BX:44:ILE:CG2	2.50	0.40
44:BX:49:LYS:HZ3	44:BX:50:SER:HA	1.85	0.40
44:BX:58:ILE:CG1	44:BX:59:ASN:N	2.82	0.40
1:AA:147:G:O2'	1:AA:148:G:H5'	2.21	0.40
1:AA:439:A:N6	1:AA:497:A:H1'	2.36	0.40
1:AA:502:G:H2'	1:AA:503:C:C6	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:778:G:H3'	11:AK:126:ARG:HG3	2.03	0.40
1:AA:779:C:C5'	11:AK:132:ARG:N	2.59	0.40
1:AA:792:A:C5	1:AA:1498:U:OP2	2.70	0.40
1:AA:851:G:H2'	1:AA:852:G:H8	1.86	0.40
1:AA:988:G:HO2'	1:AA:1014:A:H3'	1.84	0.40
1:AA:1286:A:C8	1:AA:1287:A:C5'	3.01	0.40
1:AA:1371:G:H2'	1:AA:1372:U:H6	1.86	0.40
1:AA:1499:A:H8	1:AA:1520:G:O2'	2.04	0.40
2:AT:579:SER:HB3	2:AT:708:THR:OG1	2.21	0.40
2:AT:669:TRP:CD1	2:AT:710:ARG:NH1	2.89	0.40
3:AB:106:PHE:CE2	3:AB:117:PRO:CG	3.04	0.40
4:AC:105:LYS:HB3	4:AC:173:HIS:O	2.21	0.40
5:AD:116:LEU:HD23	5:AD:176:ASN:HD22	1.85	0.40
5:AD:180:LYS:H	5:AD:180:LYS:CD	2.34	0.40
6:AE:107:ASN:CA	6:AE:143:TRP:H	2.32	0.40
9:AI:29:LYS:HE3	9:AI:65:ARG:CG	2.36	0.40
9:AI:51:LEU:CD1	9:AI:84:ILE:HD13	2.48	0.40
10:AJ:70:THR:OG1	14:AN:41:CYS:CA	2.69	0.40
12:AL:100:ASP:HB3	12:AL:132:LEU:HG	2.03	0.40
13:AM:125:ILE:CG2	13:AM:126:ARG:N	2.84	0.40
13:AM:132:ARG:CD	13:AM:145:ARG:HB2	2.52	0.40
14:AN:20:CYS:HB2	14:AN:29:LEU:CB	2.52	0.40
14:AN:23:CYS:O	14:AN:24:SER:HB3	2.22	0.40
14:AN:33:TYR:CD1	14:AN:33:TYR:N	2.89	0.40
16:AQ:70:LEU:O	16:AQ:123:THR:HA	2.21	0.40
16:AQ:78:LYS:HE2	16:AQ:78:LYS:CA	2.23	0.40
16:AQ:81:ARG:CD	16:AQ:109:HIS:CE1	3.04	0.40
18:B3:25:A:H2'	18:B3:1320:U:H4'	2.04	0.40
18:B3:80:A:C4'	40:BU:73:VAL:HG11	2.49	0.40
18:B3:189:A:H2'	18:B3:190:G:O4'	2.22	0.40
18:B3:251:C:OP1	31:BL:143:ARG:NE	2.54	0.40
18:B3:449:A:C3'	23:BD:46:ARG:NE	2.84	0.40
18:B3:497:A:H2'	18:B3:498:A:H5'	2.03	0.40
18:B3:721:A:P	34:BO:72:LYS:CA	2.87	0.40
18:B3:735:C:H2'	18:B3:736:A:H5'	2.03	0.40
18:B3:807:A:N1	18:B3:808:A:N3	2.69	0.40
18:B3:920:C:P	41:BV:39:HIS:O	2.79	0.40
18:B3:969:G:H4'	28:BI:40:LYS:HB3	2.03	0.40
18:B3:1132:A:HO2'	18:B3:2521:A:C3'	2.02	0.40
18:B3:1339:G:C6	18:B3:1340:G:N1	2.89	0.40
18:B3:1344:G:H1'	23:BD:188:ALA:HB3	1.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:1350:U:C5	23:BD:43:LYS:CE	3.04	0.40
18:B3:1508:C:O2'	18:B3:1509:C:H5'	2.21	0.40
18:B3:1674:C:H5"	39:BT:119:LYS:HE2	1.83	0.40
18:B3:1815:A:H8	18:B3:2750:G:C2	2.39	0.40
18:B3:2123:A:C5'	31:BL:88:VAL:CG2	2.88	0.40
18:B3:2252:A:H2'	18:B3:2253:G:C5'	2.52	0.40
18:B3:2334:C:O4'	29:BJ:113:ILE:CA	2.67	0.40
18:B3:2652:U:C2	22:BC:257:ALA:HB3	2.39	0.40
18:B3:2663:U:C2	18:B3:2816:A:N3	2.90	0.40
18:B3:2704:C:H2'	18:B3:2705:U:O4'	2.21	0.40
18:B3:2709:G:H4'	37:BR:9:THR:CA	2.46	0.40
18:B3:2735:U:H2'	18:B3:2736:U:C6	2.56	0.40
18:B3:2823:G:O2'	18:B3:2824:C:H5'	2.21	0.40
19:B4:23:U:C4	19:B4:55:U:OP2	2.74	0.40
19:B4:87:U:C4'	25:BF:217:ARG:NH2	2.73	0.40
20:BA:113:SER:HB2	20:BA:116:LEU:HG	2.03	0.40
21:BB:138:HIS:CD2	21:BB:145:THR:HB	2.57	0.40
21:BB:188:TYR:CE1	21:BB:193:ASN:CG	2.95	0.40
21:BB:188:TYR:CD1	21:BB:193:ASN:CG	2.95	0.40
22:BC:20:ARG:HH11	22:BC:20:ARG:HG2	1.87	0.40
22:BC:42:LEU:CD2	22:BC:45:PHE:HD2	2.35	0.40
22:BC:238:PRO:C	22:BC:240:LYS:HD2	2.42	0.40
22:BC:261:TRP:CE3	22:BC:263:VAL:N	2.81	0.40
22:BC:270:GLY:O	22:BC:271:TYR:CD1	2.74	0.40
22:BC:332:LYS:N	22:BC:332:LYS:CE	2.82	0.40
23:BD:210:GLU:CG	23:BD:211:ASP:H	2.19	0.40
23:BD:229:VAL:CA	23:BD:232:LEU:CD2	2.94	0.40
24:BE:24:ARG:NH1	24:BE:25:GLU:H	2.19	0.40
24:BE:34:LYS:HE3	36:BQ:27:LEU:HB3	1.70	0.40
24:BE:150:LEU:HD22	24:BE:150:LEU:HA	1.95	0.40
24:BE:231:ILE:N	24:BE:231:ILE:CD1	2.83	0.40
25:BF:115:PHE:CZ	25:BF:187:ILE:O	2.75	0.40
25:BF:178:LEU:CB	25:BF:180:ILE:CD1	2.96	0.40
26:BG:141:LEU:HD11	26:BG:150:VAL:CG1	2.47	0.40
26:BG:206:ASP:CG	26:BG:209:ALA:HB3	2.39	0.40
27:BH:45:PHE:CD2	27:BH:45:PHE:O	2.74	0.40
28:BI:34:TYR:CD2	28:BI:34:TYR:O	2.74	0.40
29:BJ:16:LEU:HB3	29:BJ:128:VAL:HA	2.03	0.40
31:BL:13:LYS:HE3	31:BL:18:LEU:CD2	2.51	0.40
31:BL:13:LYS:NZ	31:BL:21:LEU:HD11	2.37	0.40
31:BL:164:THR:CG2	31:BL:165:ALA:N	2.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BM:37:ALA:O	32:BM:38:GLU:CB	2.69	0.40
32:BM:52:LYS:O	32:BM:53:TYR:CD1	2.74	0.40
32:BM:136:THR:O	32:BM:137:LEU:CG	2.69	0.40
33:BN:44:GLN:HA	33:BN:47:LEU:CD2	2.43	0.40
33:BN:126:ARG:CB	33:BN:137:LYS:CB	2.95	0.40
34:BO:100:THR:HB	34:BO:119:GLY:N	2.36	0.40
35:BP:3:LEU:HD11	35:BP:32:ALA:CA	2.52	0.40
35:BP:27:GLU:HA	35:BP:30:GLU:OE1	2.21	0.40
35:BP:65:HIS:CG	35:BP:66:ALA:N	2.88	0.40
36:BQ:97:LYS:HG3	36:BQ:98:HIS:N	2.26	0.40
37:BR:91:VAL:HG12	37:BR:92:PHE:N	2.37	0.40
38:BS:20:LEU:N	38:BS:20:LEU:HD23	2.37	0.40
38:BS:29:PHE:HB3	38:BS:30:ARG:H	1.48	0.40
39:BT:62:ILE:O	39:BT:83:PHE:CD2	2.74	0.40
41:BV:81:ILE:CD1	41:BV:86:ARG:HD2	2.51	0.40
42:B0:117:ILE:O	42:B0:117:ILE:HG12	2.20	0.40
43:BW:59:TRP:CH2	43:BW:66:VAL:HA	2.56	0.40
44:BX:9:LEU:HD12	44:BX:53:CYS:SG	2.61	0.40
45:BY:26:PHE:CZ	45:BY:27:HIS:O	2.74	0.40
1:AA:125:U:P	1:AA:310:G:H22	2.43	0.40
1:AA:460:A:N7	1:AA:462:G:C6	2.89	0.40
1:AA:566:G:OP2	6:AE:165:THR:HB	2.18	0.40
1:AA:575:G:OP1	1:AA:575:G:H4'	2.21	0.40
1:AA:584:G:H2'	1:AA:585:G:H8	1.86	0.40
1:AA:707:C:H5"	11:AK:19:TYR:CG	2.55	0.40
1:AA:707:C:C5'	11:AK:19:TYR:CD1	2.96	0.40
1:AA:934:C:N4	7:AG:76:TYR:CE1	2.90	0.40
1:AA:1091:U:O2	1:AA:1093:A:H8	2.02	0.40
1:AA:1298:C:C6	13:AM:55:HIS:CG	3.10	0.40
1:AA:1373:G:C1'	7:AG:104:GLY:CA	3.00	0.40
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.57	0.40
1:AA:1406:U:N3	1:AA:1518:A:O4'	2.51	0.40
2:AT:464:LEU:CD1	2:AT:509:LYS:HB2	2.51	0.40
5:AD:99:LEU:HD23	5:AD:103:ASP:HA	2.02	0.40
5:AD:130:THR:HA	5:AD:142:ASN:HB2	1.99	0.40
7:AG:208:TYR:HE2	7:AG:212:LYS:CE	2.34	0.40
8:AH:10:LEU:HD12	8:AH:79:ASN:HD21	1.82	0.40
8:AH:74:ILE:HG13	8:AH:128:VAL:CG2	2.50	0.40
8:AH:97:GLN:OE1	8:AH:127:PHE:CE1	2.74	0.40
9:AI:39:GLU:OE1	9:AI:45:PHE:CD2	2.74	0.40
11:AK:52:ASP:CG	11:AK:53:GLU:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:101:LEU:CD1	11:AK:114:ILE:HG13	2.51	0.40
12:AL:66:SER:O	12:AL:67:ALA:HB2	2.22	0.40
12:AL:128:SER:OG	12:AL:130:VAL:HG23	2.20	0.40
13:AM:35:ILE:HD12	13:AM:73:MET:CE	2.51	0.40
13:AM:117:LYS:CG	13:AM:128:PHE:CE1	3.05	0.40
16:AQ:101:LYS:NZ	16:AQ:101:LYS:HB2	2.36	0.40
16:AQ:118:VAL:O	16:AQ:118:VAL:HG13	2.21	0.40
18:B3:49:A:N3	18:B3:113:A:N3	2.68	0.40
18:B3:107:U:O2	44:BX:56:THR:CB	2.70	0.40
18:B3:120:A:C4	45:BY:16:THR:CG2	3.00	0.40
18:B3:123:U:C6	39:BT:88:LYS:HE2	2.57	0.40
18:B3:353:G:H2'	18:B3:354:A:C8	2.56	0.40
18:B3:898:G:C2	41:BV:42:ILE:HG12	2.56	0.40
18:B3:947:U:H2'	18:B3:948:G:H8	1.86	0.40
18:B3:1103:C:O2	32:BM:86:MET:HA	2.21	0.40
18:B3:1166:G:C8	30:BK:105:GLN:OE1	2.74	0.40
18:B3:1335:C:OP2	42:B0:99:ASN:C	2.60	0.40
18:B3:1672:G:H4'	39:BT:91:LYS:HZ2	1.84	0.40
18:B3:1788:U:C4'	18:B3:2882:G:C4'	2.95	0.40
18:B3:2345:A:O2'	29:BJ:62:GLU:CG	2.67	0.40
18:B3:2488:A:N6	18:B3:2534:C:H42	2.16	0.40
18:B3:2559:C:H1'	18:B3:2799:A:C1'	2.52	0.40
18:B3:2575:C:O2	18:B3:2775:A:H2	2.04	0.40
18:B3:2615:U:O4'	22:BC:240:LYS:HG3	2.22	0.40
18:B3:2705:U:H5'	27:BH:122:LYS:HE3	0.42	0.40
20:BA:9:VAL:CG2	20:BA:180:VAL:CG1	2.95	0.40
20:BA:15:GLU:O	20:BA:19:TYR:CD2	2.74	0.40
20:BA:194:LEU:CD2	20:BA:200:ASN:HD21	2.18	0.40
21:BB:10:GLY:O	21:BB:15:PHE:CE1	2.74	0.40
21:BB:62:PHE:HD2	21:BB:63:ARG:C	2.25	0.40
21:BB:67:LYS:CG	21:BB:73:GLU:CA	2.99	0.40
21:BB:78:ASN:HD22	21:BB:78:ASN:HA	1.62	0.40
21:BB:199:ARG:H	21:BB:199:ARG:CZ	2.34	0.40
21:BB:236:LEU:HD12	21:BB:236:LEU:H	1.87	0.40
22:BC:18:ARG:CZ	22:BC:18:ARG:CA	2.93	0.40
22:BC:27:ARG:H	22:BC:27:ARG:NE	2.20	0.40
22:BC:87:GLY:C	22:BC:159:VAL:HG23	2.42	0.40
22:BC:91:TYR:CD2	22:BC:91:TYR:N	2.90	0.40
22:BC:105:TRP:CH2	22:BC:138:GLN:HB3	2.57	0.40
22:BC:118:TYR:O	22:BC:119:LYS:HB3	2.22	0.40
22:BC:121:TRP:CE2	22:BC:123:LYS:CG	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:BC:205:ASP:OD1	22:BC:208:PHE:CZ	2.74	0.40
22:BC:232:TRP:CZ3	22:BC:265:ARG:O	2.74	0.40
22:BC:271:TYR:CD1	22:BC:271:TYR:N	2.89	0.40
22:BC:274:ARG:C	22:BC:274:ARG:HH11	2.24	0.40
23:BD:133:LEU:CD2	23:BD:243:LEU:CB	3.00	0.40
23:BD:133:LEU:CD1	23:BD:136:ALA:CB	2.95	0.40
23:BD:137:ARG:NH1	23:BD:245:ARG:HH22	2.20	0.40
23:BD:192:LYS:CD	23:BD:193:TYR:N	2.82	0.40
24:BE:22:ARG:NH2	24:BE:24:ARG:HH22	2.15	0.40
24:BE:32:GLN:O	24:BE:33:ARG:CG	2.68	0.40
24:BE:177:GLU:HG2	24:BE:178:ASN:H	1.87	0.40
25:BF:206:LEU:HD21	25:BF:242:MET:C	2.42	0.40
25:BF:219:PHE:O	25:BF:228:PHE:CE1	2.74	0.40
25:BF:239:VAL:HG13	25:BF:240:LYS:N	2.35	0.40
27:BH:113:GLU:HB2	27:BH:114:VAL:H	1.23	0.40
27:BH:113:GLU:C	27:BH:114:VAL:HG22	2.42	0.40
27:BH:154:VAL:CG2	27:BH:155:SER:N	2.85	0.40
28:BI:51:HIS:CD2	28:BI:152:LEU:HD22	2.56	0.40
29:BJ:16:LEU:O	29:BJ:70:VAL:CG2	2.70	0.40
29:BJ:35:VAL:O	29:BJ:36:LEU:HG	2.21	0.40
29:BJ:133:PRO:CG	29:BJ:135:ALA:HB2	2.51	0.40
30:BK:46:ILE:HG13	30:BK:47:ALA:H	1.82	0.40
30:BK:121:PHE:CD2	30:BK:121:PHE:O	2.74	0.40
31:BL:26:VAL:HG21	31:BL:122:GLN:CD	2.41	0.40
31:BL:152:ASP:OD2	31:BL:156:LYS:HE2	2.21	0.40
32:BM:40:LEU:HD23	32:BM:137:LEU:HA	2.04	0.40
32:BM:46:PHE:O	32:BM:47:PHE:CG	2.75	0.40
32:BM:63:PHE:CD2	32:BM:63:PHE:C	2.94	0.40
33:BN:36:ASN:HA	33:BN:113:VAL:HG11	2.02	0.40
33:BN:81:ARG:CG	33:BN:82:TRP:N	2.83	0.40
36:BQ:42:ILE:HD12	36:BQ:95:HIS:HD1	1.86	0.40
37:BR:28:ASN:OD1	37:BR:102:ILE:HG13	2.21	0.40
39:BT:74:LYS:HB3	39:BT:81:LEU:CG	2.51	0.40
39:BT:80:ILE:CG2	39:BT:125:LEU:HG	2.51	0.40
40:BU:89:LYS:CD	40:BU:92:GLY:N	2.82	0.40
40:BU:103:LYS:HD3	40:BU:103:LYS:C	2.41	0.40
42:B0:16:LYS:N	42:B0:16:LYS:HZ3	2.17	0.40
43:BW:37:LYS:NZ	43:BW:37:LYS:HB3	2.37	0.40
43:BW:58:ILE:O	43:BW:59:TRP:CE3	2.74	0.40
45:BY:17:LEU:HA	45:BY:24:ARG:C	2.42	0.40
45:BY:31:LYS:N	45:BY:31:LYS:HZ2	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BZ:28:LYS:HA	46:BZ:28:LYS:CE	2.27	0.40
46:BZ:60:LYS:HZ3	46:BZ:62:LYS:CB	2.34	0.40
1:AA:129(A):G:HO2'	1:AA:130:A:P	2.42	0.40
1:AA:224:C:H2'	1:AA:225:C:C6	2.57	0.40
1:AA:550:G:O2'	1:AA:551:U:H5'	2.21	0.40
1:AA:599:C:O3'	8:AH:121:SER:CB	2.69	0.40
1:AA:599:C:C3'	8:AH:121:SER:HB2	2.46	0.40
1:AA:765:G:N1	1:AA:812:C:H2'	2.34	0.40
1:AA:913:A:H1'	1:AA:914:A:O4'	2.21	0.40
1:AA:1019:C:O2'	1:AA:1020:U:H5'	2.22	0.40
1:AA:1056:U:O2	1:AA:1056:U:H2'	2.21	0.40
1:AA:1073:U:OP2	6:AE:94:ARG:NH2	2.54	0.40
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.33	0.40
1:AA:1131:G:H2'	1:AA:1132:C:H6	1.86	0.40
1:AA:1167:A:C6	1:AA:1168:A:C6	3.09	0.40
1:AA:1175:G:N7	9:AI:109:THR:CG2	2.85	0.40
1:AA:1179:A:O2'	1:AA:1180:A:H5'	2.21	0.40
1:AA:1207:G:H2'	1:AA:1208:C:H6	1.87	0.40
1:AA:1221:G:O3'	17:AS:120:SER:CB	2.70	0.40
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.37	0.40
1:AA:1318:A:O3'	17:AS:84:ILE:CB	2.68	0.40
2:AT:92:LYS:HE3	2:AT:92:LYS:HB2	1.85	0.40
2:AT:111:PHE:CE2	2:AT:144:ARG:HD3	2.57	0.40
2:AT:357:TYR:CD2	2:AT:366:CYS:HB2	2.57	0.40
2:AT:489:VAL:HG12	2:AT:538:LEU:CD2	2.51	0.40
3:AB:171:LEU:O	3:AB:174:TYR:CD2	2.74	0.40
9:AI:128:PHE:CD1	9:AI:128:PHE:C	2.95	0.40
10:AJ:34:LEU:C	10:AJ:37:VAL:HG22	2.41	0.40
10:AJ:56:VAL:CG1	10:AJ:58:LEU:HD21	2.51	0.40
12:AL:87:VAL:HG12	12:AL:124:VAL:CG2	2.43	0.40
13:AM:17:LEU:CD2	13:AM:73:MET:SD	3.07	0.40
13:AM:84:TRP:C	13:AM:100:THR:HA	2.42	0.40
18:B3:10:U:C2'	18:B3:11:A:OP2	2.69	0.40
18:B3:196:G:H1'	18:B3:197:C:OP2	2.21	0.40
18:B3:355:C:O2'	18:B3:356:C:H5'	2.21	0.40
18:B3:402:U:C1'	31:BL:92:LYS:CG	2.85	0.40
18:B3:449:A:C6	18:B3:1350:U:C5	3.07	0.40
18:B3:496:G:H21	18:B3:1427:A:P	2.45	0.40
18:B3:506:G:H22	18:B3:509:A:H5"	1.80	0.40
18:B3:596:C:O2'	18:B3:597:A:H5'	2.22	0.40
18:B3:621:C:C3'	42:B0:36:LYS:CB	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:B3:796:A:C4'	47:B9:12:LYS:CA	2.69	0.40
18:B3:1050:G:C6	18:B3:1051:C:C4	3.08	0.40
18:B3:1119:G:OP2	18:B3:1228:C:OP2	2.39	0.40
18:B3:1168:C:P	30:BK:114:ARG:HD3	2.55	0.40
18:B3:1245:C:C5	32:BM:130:PRO:HB2	2.56	0.40
18:B3:1342:C:H42	23:BD:186:LEU:CB	2.30	0.40
18:B3:1348:A:HO2'	23:BD:39:THR:N	2.09	0.40
18:B3:1494:A:O2'	18:B3:1505:U:O2	2.29	0.40
18:B3:1659:A:H2'	18:B3:1660:G:O4'	2.21	0.40
18:B3:1692:C:O2'	33:BN:129:TYR:OH	2.25	0.40
18:B3:1847:A:H4'	21:BB:178:LEU:C	2.22	0.40
18:B3:1852:A:N3	21:BB:237:ILE:HD11	2.37	0.40
18:B3:1872:C:C5	21:BB:19:THR:OG1	2.68	0.40
18:B3:1876:C:N3	21:BB:171:GLY:O	2.55	0.40
18:B3:2064:U:C3'	22:BC:255:HIS:CE1	3.02	0.40
18:B3:2087:C:O2'	18:B3:2088:C:H5'	2.22	0.40
18:B3:2124:G:N3	21:BB:229:VAL:CG1	2.83	0.40
18:B3:2780:C:H2'	18:B3:2781:U:H6	1.82	0.40
19:B4:49:G:C4	24:BE:94:ASN:CA	2.93	0.40
20:BA:9:VAL:O	20:BA:13:VAL:HG23	2.21	0.40
20:BA:21:ASN:HB3	20:BA:22:GLU:H	1.65	0.40
20:BA:100:ILE:HD12	20:BA:127:GLN:CB	2.51	0.40
20:BA:108:ASN:CA	20:BA:162:VAL:HG23	2.52	0.40
20:BA:134:PHE:CD2	20:BA:135:PRO:O	2.74	0.40
20:BA:185:MET:O	20:BA:189:PHE:CD1	2.75	0.40
20:BA:215:ARG:HB3	20:BA:215:ARG:CZ	2.52	0.40
21:BB:45:LYS:HB2	21:BB:71:ARG:CZ	2.51	0.40
21:BB:67:LYS:HD3	21:BB:67:LYS:HA	1.83	0.40
21:BB:204:ASN:CB	21:BB:212:GLY:CA	3.00	0.40
21:BB:242:THR:CG2	21:BB:243:GLY:N	2.82	0.40
22:BC:210:GLN:CD	22:BC:352:GLU:HA	2.41	0.40
22:BC:223:HIS:CD2	22:BC:269:ARG:CD	2.99	0.40
22:BC:363:LYS:HG3	22:BC:364:PHE:H	1.86	0.40
23:BD:7:VAL:HG12	23:BD:17:ASN:N	2.36	0.40
23:BD:139:HIS:HB3	23:BD:245:ARG:NH1	2.36	0.40
23:BD:214:ILE:O	23:BD:214:ILE:HG12	2.20	0.40
24:BE:17:GLN:HB3	36:BQ:20:ARG:HB3	1.91	0.40
24:BE:119:TYR:CE1	24:BE:122:VAL:O	2.74	0.40
24:BE:183:TRP:O	24:BE:185:PHE:N	2.55	0.40
25:BF:168:ILE:CG1	25:BF:176:GLY:N	2.81	0.40
26:BG:114:ALA:HB1	26:BG:149:LEU:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BI:50:VAL:HG13	28:BI:166:ILE:HD13	1.99	0.40
29:BJ:37:GLU:HB3	29:BJ:38:GLN:HE22	1.87	0.40
31:BL:9:LEU:HD11	31:BL:17:VAL:CG2	2.51	0.40
31:BL:113:ARG:N	31:BL:113:ARG:HD2	2.37	0.40
31:BL:123:ASP:C	31:BL:125:THR:H	2.23	0.40
31:BL:186:ARG:CD	31:BL:187:ARG:N	2.82	0.40
32:BM:73:ARG:O	32:BM:141:SER:HB3	2.21	0.40
33:BN:25:PHE:CD2	33:BN:28:THR:HG21	2.57	0.40
33:BN:37:GLY:N	33:BN:113:VAL:CG1	2.83	0.40
33:BN:85:LYS:HE3	33:BN:85:LYS:N	2.36	0.40
33:BN:92:GLY:N	33:BN:94:LEU:CD1	2.82	0.40
34:BO:89:ASP:CB	34:BO:110:ALA:N	2.83	0.40
35:BP:7:LYS:HD2	35:BP:7:LYS:C	2.40	0.40
35:BP:9:LEU:HD22	35:BP:9:LEU:HA	1.49	0.40
35:BP:41:ARG:HA	35:BP:44:VAL:HG11	2.00	0.40
35:BP:69:LYS:C	35:BP:71:GLU:H	2.21	0.40
36:BQ:34:TYR:CE1	36:BQ:97:LYS:CG	3.05	0.40
36:BQ:67:VAL:H	36:BQ:67:VAL:HG12	1.59	0.40
36:BQ:97:LYS:CE	36:BQ:98:HIS:CE1	3.03	0.40
37:BR:55:GLY:HA2	37:BR:125:LEU:HD12	2.03	0.40
37:BR:64:LYS:CD	37:BR:65:GLY:N	2.82	0.40
38:BS:51:TRP:CZ3	38:BS:56:ARG:NE	2.87	0.40
39:BT:81:LEU:CD2	39:BT:82:VAL:N	2.81	0.40
41:BV:5:THR:O	41:BV:9:LYS:HD3	2.22	0.40
41:BV:37:GLU:HG2	41:BV:39:HIS:CE1	2.56	0.40
41:BV:68:TRP:CE2	41:BV:106:ALA:O	2.74	0.40
42:B0:35:GLN:HB3	42:B0:42:VAL:CG1	2.51	0.40
42:B0:103:LYS:N	42:B0:103:LYS:CD	2.83	0.40
45:BY:14:SER:CB	45:BY:29:GLN:HE22	2.34	0.40
45:BY:17:LEU:O	45:BY:26:PHE:HD1	2.05	0.40
47:B9:56:CYS:HB3	47:B9:60:LYS:HA	1.99	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	AT	811/842 (96%)	779 (96%)	24 (3%)	8 (1%)	15	55
3	AB	183/185 (99%)	159 (87%)	17 (9%)	7 (4%)	3	24
4	AC	186/192 (97%)	169 (91%)	7 (4%)	10 (5%)	2	19
5	AD	176/179 (98%)	157 (89%)	15 (8%)	4 (2%)	6	34
6	AE	145/149 (97%)	134 (92%)	8 (6%)	3 (2%)	7	36
7	AG	148/150 (99%)	136 (92%)	10 (7%)	2 (1%)	11	46
8	AH	125/129 (97%)	113 (90%)	6 (5%)	6 (5%)	2	21
9	AI	137/142 (96%)	118 (86%)	11 (8%)	8 (6%)	1	18
10	AJ	95/100 (95%)	80 (84%)	7 (7%)	8 (8%)	1	12
11	AK	123/136 (90%)	110 (89%)	10 (8%)	3 (2%)	6	33
12	AL	116/118 (98%)	101 (87%)	9 (8%)	6 (5%)	2	19
13	AM	127/132 (96%)	121 (95%)	5 (4%)	1 (1%)	19	60
14	AN	27/36 (75%)	23 (85%)	2 (7%)	2 (7%)	1	14
15	AO	63/65 (97%)	60 (95%)	2 (3%)	1 (2%)	9	44
16	AQ	74/76 (97%)	71 (96%)	3 (4%)	0	100	100
17	AS	78/80 (98%)	70 (90%)	7 (9%)	1 (1%)	12	48
20	BA	207/217 (95%)	193 (93%)	9 (4%)	5 (2%)	6	33
21	BB	242/253 (96%)	163 (67%)	48 (20%)	31 (13%)	0	5
22	BC	357/386 (92%)	268 (75%)	55 (15%)	34 (10%)	0	10
23	BD	254/361 (70%)	182 (72%)	42 (16%)	30 (12%)	0	6
24	BE	220/222 (99%)	166 (76%)	31 (14%)	23 (10%)	0	8
25	BF	159/162 (98%)	118 (74%)	27 (17%)	14 (9%)	1	11
26	BG	117/119 (98%)	80 (68%)	21 (18%)	16 (14%)	0	4
27	BH	176/191 (92%)	113 (64%)	36 (20%)	27 (15%)	0	3
28	BI	163/168 (97%)	106 (65%)	43 (26%)	14 (9%)	1	12
29	BJ	163/173 (94%)	113 (69%)	32 (20%)	18 (11%)	0	7
30	BK	127/131 (97%)	117 (92%)	7 (6%)	3 (2%)	6	33
31	BL	192/203 (95%)	128 (67%)	39 (20%)	25 (13%)	0	5
32	BM	144/146 (99%)	106 (74%)	24 (17%)	14 (10%)	0	10
33	BN	145/183 (79%)	101 (70%)	27 (19%)	17 (12%)	0	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
34	BO	118/120 (98%)	82 (70%)	25 (21%)	11 (9%)	0 11
35	BP	139/142 (98%)	89 (64%)	30 (22%)	20 (14%)	0 4
36	BQ	95/100 (95%)	73 (77%)	13 (14%)	9 (10%)	0 10
37	BR	129/137 (94%)	92 (71%)	23 (18%)	14 (11%)	0 8
38	BS	51/56 (91%)	36 (71%)	8 (16%)	7 (14%)	0 4
39	BT	75/83 (90%)	53 (71%)	13 (17%)	9 (12%)	0 6
40	BU	113/126 (90%)	82 (73%)	15 (13%)	16 (14%)	0 4
41	BV	141/148 (95%)	102 (72%)	23 (16%)	16 (11%)	0 7
42	B0	107/130 (82%)	76 (71%)	17 (16%)	14 (13%)	0 5
43	BW	76/112 (68%)	57 (75%)	13 (17%)	6 (8%)	1 13
44	BX	57/120 (48%)	41 (72%)	9 (16%)	7 (12%)	0 5
45	BY	50/87 (58%)	35 (70%)	6 (12%)	9 (18%)	0 3
46	BZ	89/105 (85%)	66 (74%)	17 (19%)	6 (7%)	1 15
47	B9	71/91 (78%)	43 (61%)	17 (24%)	11 (16%)	0 3
All	All	6591/7183 (92%)	5282 (80%)	813 (12%)	496 (8%)	2 13

All (496) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AT	106	PRO
2	AT	108	HIS
2	AT	460	ASP
3	AB	23	LEU
3	AB	27	ASN
4	AC	41	THR
4	AC	43	THR
4	AC	130	ALA
4	AC	151	PHE
5	AD	162	SER
6	AE	85	VAL
7	AG	186	ILE
9	AI	59	PHE
9	AI	99	GLN
9	AI	124	GLU
9	AI	133	ALA
10	AJ	80	GLU
11	AK	123	ASP

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Mol	Chain	Res	Type
12	AL	63	GLN
12	AL	94	ASN
15	AO	107	ASP
17	AS	70	ASN
20	BA	60	ARG
21	BB	5	ARG
21	BB	32	ASP
21	BB	105	SER
21	BB	118	LYS
21	BB	162	ARG
21	BB	167	VAL
21	BB	202	ALA
21	BB	210	HIS
21	BB	221	ALA
21	BB	233	LYS
22	BC	18	ARG
22	BC	49	LYS
22	BC	81	PRO
22	BC	96	ARG
22	BC	106	ALA
22	BC	118	TYR
22	BC	161	VAL
22	BC	187	ILE
22	BC	195	ARG
22	BC	200	LYS
22	BC	254	TRP
22	BC	271	TYR
22	BC	273	SER
22	BC	311	VAL
22	BC	315	GLU
22	BC	330	ASN
23	BD	38	PHE
23	BD	73	ILE
23	BD	97	ARG
23	BD	124	ALA
23	BD	126	ALA
23	BD	138	GLY
23	BD	171	VAL
23	BD	174	HIS
23	BD	194	ARG
23	BD	198	TRP
23	BD	231	SER

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Mol	Chain	Res	Type
24	BE	37	VAL
24	BE	42	ALA
24	BE	64	ILE
24	BE	65	ILE
24	BE	81	HIS
24	BE	98	ALA
24	BE	103	LEU
24	BE	117	GLU
24	BE	126	GLU
24	BE	184	ASP
24	BE	203	HIS
25	BF	106	ARG
25	BF	147	VAL
25	BF	167	ILE
25	BF	190	VAL
25	BF	231	ARG
26	BG	125	SER
26	BG	130	ALA
26	BG	156	VAL
26	BG	157	ASP
26	BG	168	LEU
26	BG	208	ALA
27	BH	25	VAL
27	BH	41	ILE
27	BH	63	LYS
27	BH	67	ALA
27	BH	78	MET
27	BH	93	VAL
27	BH	108	GLY
27	BH	113	GLU
27	BH	152	GLU
27	BH	159	ALA
27	BH	173	ARG
28	BI	15	LYS
28	BI	17	TYR
28	BI	66	GLU
28	BI	68	ALA
28	BI	69	ARG
28	BI	70	ILE
28	BI	84	ALA
28	BI	85	PHE
28	BI	95	HIS

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Mol	Chain	Res	Type
28	BI	138	VAL
28	BI	146	ASP
29	BJ	64	ILE
29	BJ	66	VAL
29	BJ	68	VAL
29	BJ	70	VAL
29	BJ	71	ARG
29	BJ	78	ILE
29	BJ	92	ASP
29	BJ	133	PRO
29	BJ	142	ARG
30	BK	76	SER
31	BL	37	ARG
31	BL	70	ARG
31	BL	88	VAL
31	BL	131	VAL
32	BM	20	SER
32	BM	23	ALA
32	BM	38	GLU
32	BM	96	ALA
32	BM	98	LEU
32	BM	107	ILE
32	BM	113	LYS
32	BM	137	LEU
33	BN	11	ALA
33	BN	82	TRP
33	BN	98	ALA
33	BN	118	VAL
33	BN	131	ALA
34	BO	60	PRO
34	BO	68	ALA
34	BO	108	ALA
34	BO	111	ARG
35	BP	12	SER
35	BP	14	VAL
35	BP	22	TRP
35	BP	32	ALA
35	BP	41	ARG
35	BP	63	ARG
35	BP	116	LYS
36	BQ	31	LEU
36	BQ	36	VAL

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Mol	Chain	Res	Type
36	BQ	74	VAL
36	BQ	75	ILE
36	BQ	98	HIS
37	BR	32	ARG
37	BR	40	LYS
37	BR	51	ALA
37	BR	66	LYS
37	BR	71	LYS
37	BR	73	VAL
37	BR	74	MET
37	BR	96	GLU
37	BR	131	SER
38	BS	11	ALA
38	BS	35	LYS
38	BS	37	ALA
39	BT	76	GLU
39	BT	82	VAL
39	BT	95	LYS
39	BT	98	VAL
39	BT	114	ARG
39	BT	134	ILE
40	BU	12	ARG
40	BU	16	ARG
40	BU	43	TYR
40	BU	45	ILE
40	BU	59	VAL
40	BU	60	ARG
40	BU	75	ARG
40	BU	102	SER
41	BV	44	MET
41	BV	46	LYS
41	BV	52	PHE
41	BV	63	GLN
41	BV	69	LYS
41	BV	122	VAL
41	BV	137	ILE
41	BV	139	ALA
41	BV	143	VAL
42	B0	50	ILE
42	B0	51	SER
42	B0	75	LEU
42	B0	78	ASN

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Mol	Chain	Res	Type
42	B0	102	ALA
42	B0	105	ARG
42	B0	114	ALA
43	BW	16	HIS
43	BW	27	ARG
43	BW	40	LYS
43	BW	53	GLU
43	BW	61	ARG
44	BX	5	LYS
44	BX	25	LYS
44	BX	28	LEU
44	BX	46	THR
44	BX	57	VAL
45	BY	30	LYS
45	BY	33	CYS
45	BY	38	TYR
45	BY	46	TYR
46	BZ	49	PHE
46	BZ	69	LEU
46	BZ	75	LYS
47	B9	22	ARG
47	B9	41	CYS
2	AT	111	PHE
2	AT	391	LYS
2	AT	465	LYS
2	AT	764	PRO
3	AB	14	GLN
3	AB	15	LEU
4	AC	138	SER
5	AD	91	LYS
5	AD	104	PHE
7	AG	207	SER
8	AH	48	GLU
8	AH	65	ASN
9	AI	45	PHE
9	AI	112	ASP
10	AJ	91	ILE
10	AJ	97	VAL
13	AM	102	ALA
14	AN	38	CYS
20	BA	22	GLU
20	BA	72	PHE

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Mol	Chain	Res	Type
20	BA	197	ASN
21	BB	46	GLN
21	BB	53	ARG
21	BB	62	PHE
21	BB	108	GLU
21	BB	144	LYS
21	BB	182	GLY
22	BC	60	ASP
22	BC	76	THR
22	BC	104	VAL
22	BC	109	LEU
22	BC	112	GLU
22	BC	186	SER
22	BC	206	SER
22	BC	208	PHE
22	BC	240	LYS
22	BC	264	ALA
22	BC	344	ASN
23	BD	130	VAL
23	BD	162	LYS
23	BD	207	VAL
23	BD	218	LEU
23	BD	241	ALA
23	BD	252	ALA
24	BE	23	ARG
24	BE	167	SER
24	BE	212	ALA
24	BE	213	ASP
24	BE	219	PHE
24	BE	228	ALA
25	BF	180	ILE
26	BG	120	SER
26	BG	131	VAL
26	BG	167	ALA
26	BG	197	ALA
26	BG	200	THR
27	BH	27	VAL
27	BH	28	VAL
27	BH	84	LYS
27	BH	97	PHE
27	BH	114	VAL
27	BH	171	ASP

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Mol	Chain	Res	Type
28	BI	40	LYS
28	BI	71	CYS
28	BI	166	ILE
29	BJ	69	THR
29	BJ	98	THR
29	BJ	120	GLY
29	BJ	125	ASP
29	BJ	136	ARG
29	BJ	163	LYS
30	BK	22	VAL
31	BL	7	GLU
31	BL	71	LYS
31	BL	154	VAL
31	BL	164	THR
31	BL	174	ASN
32	BM	24	LYS
32	BM	39	GLU
32	BM	92	ALA
33	BN	26	LYS
33	BN	44	GLN
33	BN	66	ILE
33	BN	77	VAL
33	BN	119	ASN
33	BN	148	VAL
33	BN	149	VAL
34	BO	63	SER
34	BO	130	ARG
35	BP	42	LYS
35	BP	68	SER
35	BP	73	ARG
35	BP	99	ARG
35	BP	110	ASP
36	BQ	54	HIS
37	BR	86	ARG
38	BS	24	GLY
38	BS	28	ILE
38	BS	48	ARG
39	BT	116	ASN
40	BU	100	HIS
40	BU	108	LYS
41	BV	51	TYR
41	BV	98	ALA

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Mol	Chain	Res	Type
41	BV	133	ALA
42	B0	26	HIS
42	B0	46	PHE
44	BX	43	LYS
46	BZ	5	LYS
46	BZ	17	ARG
47	B9	20	SER
47	B9	44	LYS
47	B9	77	THR
4	AC	44	LYS
4	AC	47	VAL
4	AC	92	ASP
5	AD	161	THR
6	AE	145	THR
8	AH	70	LYS
8	AH	77	ARG
8	AH	95	ALA
10	AJ	49	ASN
10	AJ	58	LEU
12	AL	67	ALA
20	BA	62	ASN
21	BB	79	GLU
22	BC	93	GLU
22	BC	105	TRP
22	BC	272	HIS
23	BD	29	ILE
23	BD	45	LYS
23	BD	102	THR
23	BD	139	HIS
23	BD	168	LEU
24	BE	79	TYR
24	BE	111	GLN
25	BF	208	ASN
25	BF	221	HIS
25	BF	224	GLN
27	BH	18	VAL
27	BH	45	PHE
27	BH	51	GLN
27	BH	95	ALA
27	BH	142	ASP
27	BH	169	ASN
29	BJ	135	ALA

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Mol	Chain	Res	Type
31	BL	35	ILE
31	BL	76	LYS
31	BL	84	THR
31	BL	98	ARG
31	BL	108	ARG
31	BL	125	THR
31	BL	188	LYS
31	BL	193	GLN
32	BM	47	PHE
32	BM	120	PRO
33	BN	34	ALA
33	BN	88	LYS
33	BN	99	ALA
34	BO	23	ASN
34	BO	99	THR
35	BP	31	ILE
35	BP	52	LYS
35	BP	59	LYS
35	BP	60	SER
35	BP	131	PHE
37	BR	38	ALA
37	BR	83	LYS
37	BR	87	ARG
38	BS	50	ALA
39	BT	112	LEU
40	BU	50	ILE
40	BU	83	ASP
41	BV	20	ARG
42	B0	39	ASP
42	B0	41	VAL
42	B0	80	LYS
42	B0	109	LEU
43	BW	79	ASN
44	BX	41	LEU
45	BY	21	CYS
45	BY	42	LYS
46	BZ	33	SER
47	B9	29	GLU
47	B9	67	ALA
2	AT	479	LYS
3	AB	96	PRO
3	AB	114	PHE

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Mol	Chain	Res	Type
6	AE	150	PRO
8	AH	72	GLY
10	AJ	108	ILE
12	AL	43	PHE
12	AL	89	ASN
12	AL	92	CYS
21	BB	107	PRO
21	BB	128	ALA
21	BB	207	ASP
21	BB	241	ARG
22	BC	209	GLU
23	BD	25	PHE
23	BD	121	THR
23	BD	128	THR
23	BD	136	ALA
25	BF	199	ASN
26	BG	107	ARG
26	BG	169	CYS
26	BG	171	LYS
27	BH	116	ASN
31	BL	65	VAL
31	BL	90	GLU
33	BN	62	PHE
34	BO	116	LYS
35	BP	79	LYS
40	BU	30	LEU
41	BV	15	SER
41	BV	87	ASP
41	BV	118	PRO
45	BY	4	THR
47	B9	27	LYS
47	B9	69	THR
3	AB	22	HIS
4	AC	163	VAL
10	AJ	50	LEU
10	AJ	98	GLN
21	BB	217	HIS
21	BB	230	SER
21	BB	234	ALA
22	BC	237	LEU
23	BD	59	THR
23	BD	200	GLN

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Mol	Chain	Res	Type
24	BE	21	ARG
24	BE	59	ASP
24	BE	108	ARG
24	BE	196	ARG
25	BF	93	LYS
27	BH	81	GLY
27	BH	122	LYS
27	BH	164	ILE
31	BL	16	ASP
31	BL	25	ARG
31	BL	161	ARG
31	BL	191	LYS
33	BN	32	ALA
35	BP	47	GLY
36	BQ	57	TYR
39	BT	86	SER
45	BY	24	ARG
47	B9	10	THR
4	AC	174	VAL
9	AI	39	GLU
9	AI	100	SER
11	AK	12	VAL
21	BB	176	LYS
21	BB	237	ILE
22	BC	23	SER
25	BF	177	ILE
25	BF	217	ARG
26	BG	199	LEU
31	BL	173	ILE
34	BO	133	LYS
35	BP	92	VAL
36	BQ	69	LYS
42	B0	107	VAL
21	BB	14	ILE
22	BC	334	ILE
23	BD	239	PRO
30	BK	98	VAL
32	BM	94	GLY
36	BQ	37	GLY
47	B9	14	GLY
21	BB	52	GLY
21	BB	101	LEU

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Mol	Chain	Res	Type
23	BD	19	LEU
26	BG	186	GLY
29	BJ	17	VAL
31	BL	105	VAL
40	BU	73	VAL
45	BY	49	GLY
11	AK	41	VAL
14	AN	28	GLY
34	BO	64	VAL
37	BR	49	LEU
40	BU	22	ALA
25	BF	176	GLY
40	BU	119	ILE
21	BB	147	VAL
29	BJ	85	VAL
21	BB	177	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	AT	697/715 (98%)	677 (97%)	20 (3%)	42 64
3	AB	153/153 (100%)	146 (95%)	7 (5%)	27 52
4	AC	152/155 (98%)	140 (92%)	12 (8%)	12 35
5	AD	148/149 (99%)	136 (92%)	12 (8%)	11 35
6	AE	115/115 (100%)	109 (95%)	6 (5%)	23 48
7	AG	123/123 (100%)	115 (94%)	8 (6%)	17 42
8	AH	108/110 (98%)	102 (94%)	6 (6%)	21 46
9	AI	116/118 (98%)	111 (96%)	5 (4%)	29 53
10	AJ	91/93 (98%)	82 (90%)	9 (10%)	8 26
11	AK	95/104 (91%)	91 (96%)	4 (4%)	30 54
12	AL	98/98 (100%)	93 (95%)	5 (5%)	24 48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	AM	116/116 (100%)	113 (97%)	3 (3%)	46	66
14	AN	27/33 (82%)	26 (96%)	1 (4%)	34	58
15	AO	59/59 (100%)	55 (93%)	4 (7%)	16	41
16	AQ	70/70 (100%)	67 (96%)	3 (4%)	29	53
17	AS	66/66 (100%)	63 (96%)	3 (4%)	27	52
20	BA	194/198 (98%)	184 (95%)	10 (5%)	23	48
21	BB	187/195 (96%)	156 (83%)	31 (17%)	2	12
22	BC	299/322 (93%)	252 (84%)	47 (16%)	2	14
23	BD	198/287 (69%)	174 (88%)	24 (12%)	5	20
24	BE	187/187 (100%)	171 (91%)	16 (9%)	10	32
25	BF	142/143 (99%)	121 (85%)	21 (15%)	3	15
26	BG	92/92 (100%)	82 (89%)	10 (11%)	6	23
27	BH	159/171 (93%)	136 (86%)	23 (14%)	3	15
28	BI	141/143 (99%)	118 (84%)	23 (16%)	2	13
29	BJ	143/149 (96%)	119 (83%)	24 (17%)	2	12
30	BK	105/105 (100%)	103 (98%)	2 (2%)	57	75
31	BL	167/175 (95%)	126 (75%)	41 (25%)	0	3
32	BM	123/123 (100%)	106 (86%)	17 (14%)	3	17
33	BN	120/145 (83%)	94 (78%)	26 (22%)	1	6
34	BO	98/98 (100%)	85 (87%)	13 (13%)	4	18
35	BP	119/119 (100%)	90 (76%)	29 (24%)	0	4
36	BQ	86/88 (98%)	76 (88%)	10 (12%)	5	21
37	BR	102/105 (97%)	87 (85%)	15 (15%)	3	15
38	BS	46/49 (94%)	37 (80%)	9 (20%)	1	8
39	BT	68/73 (93%)	59 (87%)	9 (13%)	4	18
40	BU	100/109 (92%)	83 (83%)	17 (17%)	2	12
41	BV	114/118 (97%)	88 (77%)	26 (23%)	1	5
42	B0	94/111 (85%)	70 (74%)	24 (26%)	0	3
43	BW	69/96 (72%)	60 (87%)	9 (13%)	4	18
44	BX	53/105 (50%)	45 (85%)	8 (15%)	3	14
45	BY	42/70 (60%)	34 (81%)	8 (19%)	1	8

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
46	BZ	80/90 (89%)	66 (82%)	14 (18%)	2 11
47	B9	56/71 (79%)	44 (79%)	12 (21%)	1 6
All	All	5618/6014 (93%)	4992 (89%)	626 (11%)	9 22

All (626) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AT	12	LEU
2	AT	77	LEU
2	AT	108	HIS
2	AT	183	GLU
2	AT	194	ASP
2	AT	216	HIS
2	AT	394	PHE
2	AT	424	ASP
2	AT	433	ARG
2	AT	457	VAL
2	AT	477	ASN
2	AT	595	GLU
2	AT	596	GLU
2	AT	599	LEU
2	AT	633	ILE
2	AT	677	PHE
2	AT	718	LEU
2	AT	738	GLN
2	AT	829	LYS
2	AT	836	GLN
3	AB	55	LYS
3	AB	67	PRO
3	AB	100	ARG
3	AB	110	ILE
3	AB	121	ILE
3	AB	139	ASN
3	AB	162	ASN
4	AC	6	LYS
4	AC	9	LYS
4	AC	10	LEU
4	AC	31	GLU
4	AC	33	TYR
4	AC	63	ARG
4	AC	93	ARG

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Mol	Chain	Res	Type
4	AC	134	GLU
4	AC	159	SER
4	AC	178	GLN
4	AC	184	LYS
4	AC	188	MET
5	AD	23	ARG
5	AD	28	LEU
5	AD	43	TYR
5	AD	48	GLN
5	AD	99	LEU
5	AD	129	ILE
5	AD	131	GLN
5	AD	139	GLN
5	AD	154	LYS
5	AD	156	ILE
5	AD	175	ARG
5	AD	179	ARG
6	AE	80	MET
6	AE	81	ASN
6	AE	88	GLN
6	AE	90	ARG
6	AE	169	ILE
6	AE	206	LEU
7	AG	83	LYS
7	AG	94	ASN
7	AG	102	ASN
7	AG	106	LYS
7	AG	107	LEU
7	AG	166	ARG
7	AG	187	LYS
7	AG	202	LYS
8	AH	27	ARG
8	AH	33	ILE
8	AH	41	GLN
8	AH	82	ILE
8	AH	117	ARG
8	AH	118	LYS
9	AI	8	THR
9	AI	11	LYS
9	AI	29	LYS
9	AI	89	VAL
9	AI	105	LYS

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Mol	Chain	Res	Type
10	AJ	21	LYS
10	AJ	32	LYS
10	AJ	49	ASN
10	AJ	50	LEU
10	AJ	61	LYS
10	AJ	83	GLU
10	AJ	84	MET
10	AJ	85	ARG
10	AJ	88	LYS
11	AK	31	ASP
11	AK	48	LYS
11	AK	52	ASP
11	AK	126	ARG
12	AL	65	ASN
12	AL	77	ILE
12	AL	79	ASN
12	AL	94	ASN
12	AL	142	LYS
13	AM	49	LYS
13	AM	132	ARG
13	AM	143	ARG
14	AN	29	LEU
15	AO	73	ILE
15	AO	75	LYS
15	AO	85	GLU
15	AO	120	ARG
16	AQ	87	ARG
16	AQ	101	LYS
16	AQ	104	LYS
17	AS	58	LYS
17	AS	64	LYS
17	AS	85	ILE
20	BA	24	LYS
20	BA	60	ARG
20	BA	62	ASN
20	BA	91	LYS
20	BA	100	ILE
20	BA	120	VAL
20	BA	161	LYS
20	BA	195	LYS
20	BA	204	LEU
20	BA	215	ARG

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Mol	Chain	Res	Type
21	BB	5	ARG
21	BB	8	ARG
21	BB	22	ARG
21	BB	29	ARG
21	BB	36	ARG
21	BB	41	ARG
21	BB	47	ILE
21	BB	53	ARG
21	BB	101	LEU
21	BB	117	GLU
21	BB	122	ARG
21	BB	127	ARG
21	BB	135	ILE
21	BB	144	LYS
21	BB	154	LYS
21	BB	157	ILE
21	BB	162	ARG
21	BB	173	ARG
21	BB	176	LYS
21	BB	180	LYS
21	BB	187	LYS
21	BB	189	ARG
21	BB	191	LYS
21	BB	193	ASN
21	BB	197	LYS
21	BB	199	ARG
21	BB	220	LYS
21	BB	224	ILE
21	BB	226	ARG
21	BB	233	LYS
21	BB	240	ARG
22	BC	9	ARG
22	BC	18	ARG
22	BC	19	LYS
22	BC	20	ARG
22	BC	27	ARG
22	BC	36	ARG
22	BC	49	LYS
22	BC	99	ARG
22	BC	112	GLU
22	BC	115	ARG
22	BC	125	LYS

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Mol	Chain	Res	Type
22	BC	127	LYS
22	BC	145	ARG
22	BC	151	LYS
22	BC	152	LYS
22	BC	158	ARG
22	BC	166	ARG
22	BC	172	GLN
22	BC	173	LYS
22	BC	174	LYS
22	BC	182	LEU
22	BC	217	ILE
22	BC	221	LYS
22	BC	231	ARG
22	BC	235	LYS
22	BC	236	LYS
22	BC	239	ARG
22	BC	240	LYS
22	BC	242	HIS
22	BC	243	ARG
22	BC	246	ARG
22	BC	247	LYS
22	BC	254	TRP
22	BC	268	GLN
22	BC	269	ARG
22	BC	274	ARG
22	BC	286	LYS
22	BC	299	ARG
22	BC	302	LYS
22	BC	313	TYR
22	BC	324	LYS
22	BC	330	ASN
22	BC	332	LYS
22	BC	333	ARG
22	BC	341	LEU
22	BC	348	LYS
22	BC	355	LEU
23	BD	30	ARG
23	BD	35	HIS
23	BD	47	GLN
23	BD	83	ARG
23	BD	92	MET
23	BD	103	LYS

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Mol	Chain	Res	Type
23	BD	106	ARG
23	BD	118	ARG
23	BD	137	ARG
23	BD	139	HIS
23	BD	144	ILE
23	BD	156	GLU
23	BD	160	LYS
23	BD	177	LEU
23	BD	192	LYS
23	BD	196	ARG
23	BD	197	ARG
23	BD	198	TRP
23	BD	202	ARG
23	BD	207	VAL
23	BD	214	ILE
23	BD	219	ARG
23	BD	221	VAL
23	BD	245	ARG
24	BE	17	GLN
24	BE	21	ARG
24	BE	23	ARG
24	BE	33	ARG
24	BE	35	ARG
24	BE	43	LYS
24	BE	103	LEU
24	BE	113	LEU
24	BE	115	LEU
24	BE	120	LYS
24	BE	148	ILE
24	BE	183	TRP
24	BE	186	GLU
24	BE	208	MET
24	BE	211	LEU
24	BE	216	GLU
25	BF	82	LEU
25	BF	89	LYS
25	BF	91	ILE
25	BF	93	LYS
25	BF	97	LYS
25	BF	100	LYS
25	BF	107	LEU
25	BF	117	LYS

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Mol	Chain	Res	Type
25	BF	157	LYS
25	BF	159	ARG
25	BF	162	LEU
25	BF	171	ASN
25	BF	174	LYS
25	BF	177	ILE
25	BF	184	ILE
25	BF	188	ILE
25	BF	200	PHE
25	BF	201	LEU
25	BF	205	LYS
25	BF	223	ILE
25	BF	236	ASN
26	BG	105	LYS
26	BG	119	LYS
26	BG	121	LYS
26	BG	122	GLN
26	BG	145	LYS
26	BG	149	LEU
26	BG	176	TYR
26	BG	182	LYS
26	BG	212	LYS
26	BG	217	ILE
27	BH	7	GLU
27	BH	10	ILE
27	BH	12	VAL
27	BH	23	ARG
27	BH	24	ILE
27	BH	25	VAL
27	BH	26	LYS
27	BH	39	LYS
27	BH	47	LYS
27	BH	54	LYS
27	BH	63	LYS
27	BH	68	LEU
27	BH	78	MET
27	BH	106	LYS
27	BH	110	LYS
27	BH	124	ARG
27	BH	125	ASN
27	BH	156	GLN
27	BH	166	ARG

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Mol	Chain	Res	Type
27	BH	168	ARG
27	BH	170	LYS
27	BH	176	LEU
27	BH	184	LYS
28	BI	10	ARG
28	BI	33	ILE
28	BI	38	LYS
28	BI	40	LYS
28	BI	52	LEU
28	BI	58	GLU
28	BI	69	ARG
28	BI	70	ILE
28	BI	82	ARG
28	BI	86	HIS
28	BI	88	ARG
28	BI	90	ARG
28	BI	98	ARG
28	BI	110	ARG
28	BI	116	ARG
28	BI	121	LYS
28	BI	128	ARG
28	BI	134	ILE
28	BI	139	ARG
28	BI	141	LYS
28	BI	154	ARG
28	BI	164	LYS
28	BI	165	ILE
29	BJ	12	LYS
29	BJ	15	LYS
29	BJ	16	LEU
29	BJ	17	VAL
29	BJ	34	LYS
29	BJ	36	LEU
29	BJ	53	VAL
29	BJ	59	ARG
29	BJ	61	ASN
29	BJ	62	GLU
29	BJ	70	VAL
29	BJ	71	ARG
29	BJ	89	GLN
29	BJ	103	PHE
29	BJ	114	LYS

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Mol	Chain	Res	Type
29	BJ	119	ILE
29	BJ	127	TYR
29	BJ	136	ARG
29	BJ	140	ARG
29	BJ	142	ARG
29	BJ	152	LYS
29	BJ	155	LYS
29	BJ	158	THR
29	BJ	165	LYS
30	BK	40	LYS
30	BK	56	ILE
31	BL	3	TYR
31	BL	8	GLU
31	BL	13	LYS
31	BL	22	GLN
31	BL	25	ARG
31	BL	32	LYS
31	BL	37	ARG
31	BL	40	ARG
31	BL	43	ARG
31	BL	53	LYS
31	BL	60	ILE
31	BL	64	ARG
31	BL	66	ARG
31	BL	67	ARG
31	BL	70	ARG
31	BL	71	LYS
31	BL	72	ARG
31	BL	76	LYS
31	BL	82	LYS
31	BL	97	LEU
31	BL	108	ARG
31	BL	112	LEU
31	BL	118	TYR
31	BL	119	TRP
31	BL	127	LYS
31	BL	139	LYS
31	BL	141	ILE
31	BL	146	ARG
31	BL	150	ILE
31	BL	155	HIS
31	BL	156	LYS

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Mol	Chain	Res	Type
31	BL	159	GLU
31	BL	163	LEU
31	BL	168	LYS
31	BL	169	LYS
31	BL	175	LYS
31	BL	183	LYS
31	BL	186	ARG
31	BL	187	ARG
31	BL	188	LYS
31	BL	193	GLN
32	BM	17	ARG
32	BM	25	GLN
32	BM	26	LEU
32	BM	42	ILE
32	BM	48	ARG
32	BM	52	LYS
32	BM	81	LYS
32	BM	84	ARG
32	BM	90	LYS
32	BM	93	ARG
32	BM	95	LYS
32	BM	98	LEU
32	BM	101	LEU
32	BM	111	TYR
32	BM	123	LEU
32	BM	133	LYS
32	BM	137	LEU
33	BN	12	LYS
33	BN	17	ARG
33	BN	35	ILE
33	BN	40	LEU
33	BN	42	LYS
33	BN	45	LYS
33	BN	46	TYR
33	BN	48	GLU
33	BN	63	ASN
33	BN	66	ILE
33	BN	73	LYS
33	BN	81	ARG
33	BN	85	LYS
33	BN	88	LYS
33	BN	93	LEU

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Mol	Chain	Res	Type
33	BN	94	LEU
33	BN	96	ASN
33	BN	106	LEU
33	BN	110	LYS
33	BN	116	ILE
33	BN	123	LYS
33	BN	126	ARG
33	BN	134	ARG
33	BN	137	LYS
33	BN	146	GLU
33	BN	151	GLU
34	BO	56	LYS
34	BO	59	ARG
34	BO	62	VAL
34	BO	66	ARG
34	BO	73	GLN
34	BO	79	LYS
34	BO	87	VAL
34	BO	92	ARG
34	BO	98	LYS
34	BO	105	ARG
34	BO	113	LYS
34	BO	116	LYS
34	BO	130	ARG
35	BP	4	ARG
35	BP	6	GLN
35	BP	7	LYS
35	BP	9	LEU
35	BP	18	LYS
35	BP	20	LYS
35	BP	26	ASN
35	BP	30	GLU
35	BP	33	GLN
35	BP	37	ARG
35	BP	41	ARG
35	BP	42	LYS
35	BP	43	LEU
35	BP	46	ASN
35	BP	51	LYS
35	BP	52	LYS
35	BP	59	LYS
35	BP	63	ARG

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Mol	Chain	Res	Type
35	BP	65	HIS
35	BP	79	LYS
35	BP	81	LYS
35	BP	88	LEU
35	BP	94	TRP
35	BP	95	ILE
35	BP	102	ARG
35	BP	103	ARG
35	BP	109	ARG
35	BP	115	ASP
35	BP	116	LYS
36	BQ	17	ARG
36	BQ	20	ARG
36	BQ	35	LYS
36	BQ	39	ILE
36	BQ	45	ASN
36	BQ	48	ILE
36	BQ	54	HIS
36	BQ	87	LYS
36	BQ	88	ARG
36	BQ	89	LEU
37	BR	13	ILE
37	BR	32	ARG
37	BR	34	LEU
37	BR	37	ILE
37	BR	46	LEU
37	BR	48	ARG
37	BR	64	LYS
37	BR	81	GLN
37	BR	83	LYS
37	BR	86	ARG
37	BR	87	ARG
37	BR	88	ARG
37	BR	93	LEU
37	BR	94	TYR
37	BR	102	ILE
38	BS	5	ILE
38	BS	12	LYS
38	BS	20	LEU
38	BS	21	PHE
38	BS	29	PHE
38	BS	33	ASN

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Mol	Chain	Res	Type
38	BS	41	LYS
38	BS	44	LYS
38	BS	49	ILE
39	BT	60	LYS
39	BT	66	ILE
39	BT	72	MET
39	BT	74	LYS
39	BT	81	LEU
39	BT	91	LYS
39	BT	96	LYS
39	BT	114	ARG
39	BT	120	LYS
40	BU	14	LYS
40	BU	17	LYS
40	BU	27	ARG
40	BU	37	LYS
40	BU	40	ARG
40	BU	45	ILE
40	BU	46	LYS
40	BU	60	ARG
40	BU	63	LYS
40	BU	87	LYS
40	BU	89	LYS
40	BU	99	LEU
40	BU	103	LYS
40	BU	108	LYS
40	BU	111	LEU
40	BU	113	LYS
40	BU	122	LYS
41	BV	6	LYS
41	BV	9	LYS
41	BV	11	ARG
41	BV	23	LYS
41	BV	25	ARG
41	BV	47	TYR
41	BV	52	PHE
41	BV	62	LYS
41	BV	68	TRP
41	BV	69	LYS
41	BV	85	LYS
41	BV	86	ARG
41	BV	88	GLN

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Mol	Chain	Res	Type
41	BV	91	LYS
41	BV	95	LYS
41	BV	110	LYS
41	BV	111	ILE
41	BV	114	LYS
41	BV	116	ARG
41	BV	123	ILE
41	BV	125	LYS
41	BV	132	LEU
41	BV	134	GLU
41	BV	136	LYS
41	BV	138	ARG
41	BV	145	GLU
42	B0	16	LYS
42	B0	19	ARG
42	B0	24	ARG
42	B0	25	TYR
42	B0	30	GLU
42	B0	33	ARG
42	B0	34	LYS
42	B0	35	GLN
42	B0	36	LYS
42	B0	50	ILE
42	B0	54	LYS
42	B0	60	ASN
42	B0	61	LYS
42	B0	62	LYS
42	B0	64	LYS
42	B0	83	GLU
42	B0	87	MET
42	B0	100	ILE
42	B0	103	LYS
42	B0	105	ARG
42	B0	108	ILE
42	B0	109	LEU
42	B0	113	LYS
42	B0	117	ILE
43	BW	9	ARG
43	BW	26	LYS
43	BW	37	LYS
43	BW	55	ASN
43	BW	61	ARG

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Mol	Chain	Res	Type
43	BW	71	ARG
43	BW	73	ARG
43	BW	76	ARG
43	BW	78	ARG
44	BX	5	LYS
44	BX	10	ARG
44	BX	12	LYS
44	BX	25	LYS
44	BX	41	LEU
44	BX	45	LYS
44	BX	49	LYS
44	BX	51	ILE
45	BY	9	LYS
45	BY	10	ARG
45	BY	12	ASN
45	BY	13	LYS
45	BY	30	LYS
45	BY	31	LYS
45	BY	44	ARG
45	BY	48	TRP
46	BZ	12	LYS
46	BZ	21	GLN
46	BZ	28	LYS
46	BZ	42	TYR
46	BZ	44	ARG
46	BZ	45	LYS
46	BZ	59	LYS
46	BZ	60	LYS
46	BZ	62	LYS
46	BZ	65	LYS
46	BZ	66	LYS
46	BZ	69	LEU
46	BZ	79	ARG
46	BZ	88	LYS
47	B9	16	ARG
47	B9	22	ARG
47	B9	28	LEU
47	B9	30	ILE
47	B9	32	GLN
47	B9	44	LYS
47	B9	47	LYS
47	B9	48	ARG

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Mol	Chain	Res	Type
47	B9	53	ILE
47	B9	55	THR
47	B9	60	LYS
47	B9	61	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (189) such sidechains are listed below:

Mol	Chain	Res	Type
2	AT	18	ASN
2	AT	91	GLN
2	AT	101	ASN
2	AT	138	GLN
2	AT	201	GLN
2	AT	290	ASN
2	AT	371	ASN
2	AT	414	GLN
2	AT	452	ASN
2	AT	476	HIS
2	AT	537	HIS
2	AT	547	HIS
2	AT	584	ASN
2	AT	644	ASN
2	AT	687	ASN
2	AT	699	HIS
2	AT	734	GLN
2	AT	753	GLN
2	AT	759	GLN
2	AT	800	HIS
2	AT	836	GLN
3	AB	22	HIS
3	AB	27	ASN
3	AB	32	GLN
3	AB	162	ASN
3	AB	192	GLN
4	AC	55	GLN
4	AC	66	ASN
4	AC	73	GLN
4	AC	91	GLN
4	AC	100	GLN
4	AC	161	GLN
4	AC	178	GLN
5	AD	48	GLN

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Mol	Chain	Res	Type
5	AD	74	ASN
5	AD	112	GLN
5	AD	131	GLN
5	AD	139	GLN
6	AE	81	ASN
6	AE	88	GLN
6	AE	93	GLN
6	AE	146	ASN
7	AG	78	ASN
7	AG	102	ASN
7	AG	115	HIS
7	AG	138	ASN
7	AG	157	GLN
8	AH	11	ASN
8	AH	23	GLN
8	AH	41	GLN
8	AH	65	ASN
8	AH	69	ASN
8	AH	79	ASN
9	AI	99	GLN
9	AI	102	ASN
9	AI	138	GLN
10	AJ	36	ASN
10	AJ	47	GLN
10	AJ	105	GLN
11	AK	11	GLN
11	AK	23	ASN
11	AK	64	GLN
12	AL	75	GLN
12	AL	79	ASN
12	AL	94	ASN
12	AL	99	ASN
13	AM	21	ASN
13	AM	25	ASN
13	AM	90	ASN
13	AM	127	HIS
13	AM	136	GLN
13	AM	137	HIS
14	AN	40	GLN
16	AQ	105	ASN
16	AQ	126	GLN
17	AS	79	HIS

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Mol	Chain	Res	Type
17	AS	98	ASN
17	AS	114	HIS
20	BA	8	GLN
20	BA	57	ASN
20	BA	182	GLN
20	BA	197	ASN
20	BA	200	ASN
21	BB	6	ASN
21	BB	49	HIS
21	BB	99	ASN
21	BB	131	ASN
21	BB	143	ASN
21	BB	186	HIS
21	BB	193	ASN
21	BB	208	HIS
21	BB	210	HIS
21	BB	214	ASN
22	BC	10	HIS
22	BC	176	HIS
22	BC	181	GLN
22	BC	183	ASN
22	BC	230	HIS
22	BC	268	GLN
22	BC	272	HIS
22	BC	278	ASN
22	BC	330	ASN
22	BC	344	ASN
23	BD	4	GLN
23	BD	47	GLN
23	BD	91	ASN
23	BD	174	HIS
23	BD	195	ASN
24	BE	39	GLN
24	BE	90	HIS
25	BF	92	ASN
25	BF	156	ASN
25	BF	171	ASN
25	BF	198	ASN
26	BG	122	GLN
27	BH	8	GLN
27	BH	59	ASN
27	BH	77	ASN

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Mol	Chain	Res	Type
27	BH	100	ASN
27	BH	116	ASN
27	BH	125	ASN
27	BH	156	GLN
27	BH	157	ASN
27	BH	162	GLN
28	BI	51	HIS
28	BI	55	ASN
28	BI	112	GLN
28	BI	133	GLN
28	BI	163	GLN
29	BJ	42	GLN
29	BJ	61	ASN
29	BJ	89	GLN
29	BJ	100	ASN
30	BK	97	ASN
30	BK	103	ASN
30	BK	115	GLN
31	BL	22	GLN
31	BL	31	GLN
31	BL	137	GLN
31	BL	177	HIS
31	BL	193	GLN
32	BM	13	HIS
32	BM	49	ASN
32	BM	71	HIS
32	BM	89	HIS
33	BN	27	ASN
33	BN	33	GLN
33	BN	44	GLN
33	BN	49	GLN
33	BN	63	ASN
33	BN	100	ASN
33	BN	115	HIS
33	BN	117	GLN
34	BO	73	GLN
34	BO	135	GLN
35	BP	6	GLN
35	BP	46	ASN
35	BP	120	HIS
35	BP	133	HIS
36	BQ	45	ASN

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Mol	Chain	Res	Type
36	BQ	49	GLN
36	BQ	54	HIS
36	BQ	77	ASN
36	BQ	82	ASN
37	BR	81	GLN
38	BS	33	ASN
38	BS	42	GLN
39	BT	110	ASN
39	BT	116	ASN
40	BU	26	GLN
40	BU	42	GLN
40	BU	81	GLN
41	BV	13	HIS
41	BV	39	HIS
41	BV	88	GLN
42	B0	49	ASN
42	B0	71	HIS
42	B0	98	HIS
43	BW	55	ASN
43	BW	56	GLN
43	BW	79	ASN
44	BX	16	GLN
45	BY	11	HIS
45	BY	12	ASN
45	BY	27	HIS
46	BZ	21	GLN
46	BZ	22	HIS
46	BZ	26	GLN
46	BZ	46	GLN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1440/1507 (95%)	215 (14%)	91 (6%)
18	B3	2758/2999 (91%)	342 (12%)	115 (4%)
19	B4	122/125 (97%)	17 (13%)	5 (4%)
All	All	4320/4631 (93%)	574 (13%)	211 (4%)

All (574) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	48	C
1	AA	49	U
1	AA	51	A
1	AA	52	G
1	AA	61	G
1	AA	64	G
1	AA	65	U
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	129(A)	G
1	AA	130	A
1	AA	131	C
1	AA	182	U
1	AA	190(D)	U
1	AA	190(E)	U
1	AA	190(F)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	266	G
1	AA	267	C
1	AA	280	C
1	AA	282	A
1	AA	289	G
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	330	C

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Mol	Chain	Res	Type
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	373	A
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G
1	AA	421	U
1	AA	422	C
1	AA	428	G
1	AA	429	U
1	AA	439	A
1	AA	460	A
1	AA	461	C
1	AA	462	G
1	AA	481	G
1	AA	484	G
1	AA	497	A
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	519	C
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G

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Mol	Chain	Res	Type
1	AA	653	A
1	AA	665	A
1	AA	686	U
1	AA	687	A
1	AA	688	G
1	AA	702	A
1	AA	703	G
1	AA	718	G
1	AA	723	U
1	AA	731	G
1	AA	749	C
1	AA	755	G
1	AA	777	A
1	AA	781	A
1	AA	782	A
1	AA	793	U
1	AA	794	A
1	AA	813	U
1	AA	815	A
1	AA	817	C
1	AA	819	A
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	858	G
1	AA	902	G
1	AA	913	A
1	AA	914	A
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	945	G
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	969	A
1	AA	971	G
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A

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Mol	Chain	Res	Type
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	1004	A
1	AA	1005	A
1	AA	1023	G
1	AA	1050	G
1	AA	1053	G
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1068	G
1	AA	1085	U
1	AA	1086	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1145	C
1	AA	1146	A
1	AA	1152	A
1	AA	1157	A
1	AA	1159	U
1	AA	1183	A
1	AA	1184	G
1	AA	1191	A
1	AA	1196	U
1	AA	1197	G
1	AA	1201	A
1	AA	1202	G
1	AA	1211	U

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Mol	Chain	Res	Type
1	AA	1212	U
1	AA	1215	G
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1257	U
1	AA	1258	G
1	AA	1279	A
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1303	C
1	AA	1305	G
1	AA	1320	C
1	AA	1332	A
1	AA	1347	G
1	AA	1348	U
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G
1	AA	1381	U
1	AA	1394	A
1	AA	1398	A
1	AA	1442	G
1	AA	1443	G
1	AA	1446	A
1	AA	1447	G
1	AA	1452	C
1	AA	1493	A
1	AA	1494	G
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G

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Mol	Chain	Res	Type
1	AA	1517	G
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
18	B3	11	A
18	B3	31	C
18	B3	60	A
18	B3	67	A
18	B3	70	A
18	B3	71	G
18	B3	87	C
18	B3	95	A
18	B3	96	A
18	B3	114	A
18	B3	115	U
18	B3	116	G
18	B3	120	A
18	B3	139	C
18	B3	141	C
18	B3	142	G
18	B3	151	A
18	B3	166	A
18	B3	169	A
18	B3	186	A
18	B3	192	A
18	B3	196	G
18	B3	197	C
18	B3	198	A
18	B3	200	U
18	B3	201	G
18	B3	204	A
18	B3	219	G
18	B3	220	C
18	B3	236	A
18	B3	237	G
18	B3	262	A
18	B3	263	U
18	B3	271	C
18	B3	272	A
18	B3	282	C
18	B3	283	U
18	B3	284	C

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Mol	Chain	Res	Type
18	B3	285	A
18	B3	308	U
18	B3	309	C
18	B3	336	G
18	B3	337	A
18	B3	345	G
18	B3	358	G
18	B3	368	C
18	B3	381	G
18	B3	395	A
18	B3	397	A
18	B3	398	U
18	B3	407	A
18	B3	417	G
18	B3	439	A
18	B3	453	A
18	B3	461	C
18	B3	485	A
18	B3	486	A
18	B3	487	G
18	B3	497	A
18	B3	498	A
18	B3	510	U
18	B3	511	A
18	B3	512	G
18	B3	514	G
18	B3	515	C
18	B3	537	G
18	B3	538	C
18	B3	539	G
18	B3	545	G
18	B3	548	U
18	B3	553	G
18	B3	554	G
18	B3	555	U
18	B3	588	G
18	B3	600	G
18	B3	601	G
18	B3	604	G
18	B3	620	A
18	B3	632	A
18	B3	660	A

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Mol	Chain	Res	Type
18	B3	682	A
18	B3	688	A
18	B3	699	C
18	B3	700	A
18	B3	701	U
18	B3	714	U
18	B3	759	C
18	B3	777	U
18	B3	809	G
18	B3	817	G
18	B3	818	A
18	B3	821	U
18	B3	835	U
18	B3	840	U
18	B3	856	G
18	B3	857	A
18	B3	858	U
18	B3	868	G
18	B3	869	G
18	B3	875	A
18	B3	877	G
18	B3	878	G
18	B3	885	G
18	B3	895	A
18	B3	898	G
18	B3	905	C
18	B3	920	C
18	B3	921	G
18	B3	923	A
18	B3	940	G
18	B3	953	G
18	B3	960	G
18	B3	961	A
18	B3	965	A
18	B3	1006	A
18	B3	1008	C
18	B3	1029	U
18	B3	1045	G
18	B3	1059	G
18	B3	1060	C
18	B3	1072	G
18	B3	1073	A

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Mol	Chain	Res	Type
18	B3	1081	A
18	B3	1089	G
18	B3	1106	A
18	B3	1107	A
18	B3	1108	G
18	B3	1109	U
18	B3	1110	G
18	B3	1119	G
18	B3	1124	A
18	B3	1126	C
18	B3	1127	C
18	B3	1130	U
18	B3	1137	G
18	B3	1148	C
18	B3	1149	U
18	B3	1150	A
18	B3	1160	G
18	B3	1174	A
18	B3	1192	A
18	B3	1194	U
18	B3	1207	A
18	B3	1215	A
18	B3	1216	G
18	B3	1237	U
18	B3	1238	C
18	B3	1239	G
18	B3	1245	C
18	B3	1279	U
18	B3	1287	A
18	B3	1289	C
18	B3	1309	U
18	B3	1310	U
18	B3	1330	A
18	B3	1331	A
18	B3	1341	A
18	B3	1342	C
18	B3	1353	C
18	B3	1360	C
18	B3	1369	A
18	B3	1370	G
18	B3	1377	C
18	B3	1380	U

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Mol	Chain	Res	Type
18	B3	1407	A
18	B3	1409	G
18	B3	1449	G
18	B3	1451	C
18	B3	1474	C
18	B3	1485	A
18	B3	1488	U
18	B3	1492	A
18	B3	1506	U
18	B3	1507	C
18	B3	1524	U
18	B3	1525	G
18	B3	1526	A
18	B3	1527	A
18	B3	1528	A
18	B3	1535	G
18	B3	1556	G
18	B3	1563	G
18	B3	1564	C
18	B3	1592	G
18	B3	1593	C
18	B3	1604	G
18	B3	1605	G
18	B3	1606	A
18	B3	1624	A
18	B3	1625	U
18	B3	1626	A
18	B3	1633	C
18	B3	1634	G
18	B3	1656	A
18	B3	1682	A
18	B3	1684	A
18	B3	1685	A
18	B3	1691	A
18	B3	1692	C
18	B3	1693	A
18	B3	1699	C
18	B3	1700	C
18	B3	1701	A
18	B3	1710	A
18	B3	1722	U
18	B3	1723	G

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Mol	Chain	Res	Type
18	B3	1725	C
18	B3	1731	C
18	B3	1732	A
18	B3	1752	G
18	B3	1774	G
18	B3	1778	A
18	B3	1798	C
18	B3	1819	G
18	B3	1820	G
18	B3	1829	A
18	B3	1835	U
18	B3	1836	A
18	B3	1853	C
18	B3	1854	C
18	B3	1857	A
18	B3	1879	U
18	B3	1907	U
18	B3	1908	G
18	B3	1919	A
18	B3	1942	A
18	B3	1973	A
18	B3	1979	G
18	B3	1980	U
18	B3	1981	A
18	B3	1982	C
18	B3	1996	U
18	B3	2005	G
18	B3	2008	U
18	B3	2011	A
18	B3	2012	U
18	B3	2013	G
18	B3	2033	G
18	B3	2034	U
18	B3	2063	U
18	B3	2064	U
18	B3	2072	G
18	B3	2073	G
18	B3	2074	A
18	B3	2075	G
18	B3	2077	C
18	B3	2083	A
18	B3	2084	C

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Mol	Chain	Res	Type
18	B3	2091	G
18	B3	2096	A
18	B3	2101	A
18	B3	2102	G
18	B3	2110	G
18	B3	2134	G
18	B3	2152	C
18	B3	2153	G
18	B3	2157	G
18	B3	2158	A
18	B3	2159	U
18	B3	2160	A
18	B3	2168	G
18	B3	2217	U
18	B3	2218	A
18	B3	2238	A
18	B3	2243	C
18	B3	2246	U
18	B3	2258	A
18	B3	2259	C
18	B3	2271	G
18	B3	2272	G
18	B3	2283	G
18	B3	2284	G
18	B3	2291	A
18	B3	2316	G
18	B3	2317	C
18	B3	2322	U
18	B3	2354	A
18	B3	2361	A
18	B3	2369	A
18	B3	2370	A
18	B3	2371	G
18	B3	2379	G
18	B3	2396	C
18	B3	2422	U
18	B3	2427	C
18	B3	2428	G
18	B3	2462	G
18	B3	2464	C
18	B3	2466	G
18	B3	2467	A

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Mol	Chain	Res	Type
18	B3	2469	A
18	B3	2476	C
18	B3	2482	G
18	B3	2483	A
18	B3	2507	G
18	B3	2509	A
18	B3	2511	A
18	B3	2527	U
18	B3	2533	C
18	B3	2537	G
18	B3	2538	A
18	B3	2541	U
18	B3	2564	G
18	B3	2589	U
18	B3	2601	A
18	B3	2602	G
18	B3	2608	C
18	B3	2613	G
18	B3	2617	G
18	B3	2634	G
18	B3	2637	A
18	B3	2638	G
18	B3	2649	A
18	B3	2681	A
18	B3	2682	C
18	B3	2714	U
18	B3	2715	G
18	B3	2719	A
18	B3	2726	U
18	B3	2747	C
18	B3	2748	G
18	B3	2749	U
18	B3	2750	G
18	B3	2762	C
18	B3	2768	A
18	B3	2783	A
18	B3	2786	G
18	B3	2792	A
18	B3	2800	A
18	B3	2811	A
18	B3	2814	A
18	B3	2815	G

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Mol	Chain	Res	Type
18	B3	2826	G
18	B3	2827	A
18	B3	2837	U
18	B3	2850	C
18	B3	2867	G
18	B3	2876	G
18	B3	2890	A
18	B3	2891	A
18	B3	2903	C
18	B3	2914	A
19	B4	2	U
19	B4	4	G
19	B4	14	G
19	B4	23	U
19	B4	24	U
19	B4	25	G
19	B4	29	C
19	B4	34	A
19	B4	41	C
19	B4	43	G
19	B4	56	A
19	B4	57	A
19	B4	66	G
19	B4	77	A
19	B4	87	U
19	B4	114	G
19	B4	122	C

All (211) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	7	G
1	AA	30	U
1	AA	48	C
1	AA	51	A
1	AA	60	A
1	AA	64	G
1	AA	115	G
1	AA	119	A
1	AA	129(A)	G
1	AA	181	G

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Mol	Chain	Res	Type
1	AA	197	A
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	243	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	279	A
1	AA	281	G
1	AA	328	C
1	AA	329	A
1	AA	344	A
1	AA	351	G
1	AA	353	A
1	AA	366	C
1	AA	372	C
1	AA	421	U
1	AA	428	G
1	AA	438	G
1	AA	496	A
1	AA	497	A
1	AA	509	A
1	AA	518	C
1	AA	533	A
1	AA	559	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	701	C
1	AA	748	C
1	AA	792	A
1	AA	812	C
1	AA	840	C
1	AA	913	A
1	AA	960	U
1	AA	965	A
1	AA	975	A
1	AA	976	G
1	AA	992	U
1	AA	993	G
1	AA	1049	U

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Mol	Chain	Res	Type
1	AA	1065	U
1	AA	1066	C
1	AA	1067	A
1	AA	1085	U
1	AA	1101	A
1	AA	1129	C
1	AA	1145	C
1	AA	1182	G
1	AA	1183	A
1	AA	1190	G
1	AA	1196	U
1	AA	1201	A
1	AA	1214	C
1	AA	1224	G
1	AA	1226	C
1	AA	1256	A
1	AA	1257	U
1	AA	1278	U
1	AA	1281	U
1	AA	1285	A
1	AA	1286	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1319	A
1	AA	1331	G
1	AA	1346	A
1	AA	1347	G
1	AA	1364	U
1	AA	1380	U
1	AA	1397	C
1	AA	1451	A
1	AA	1493	A
1	AA	1498	U
1	AA	1502	A
1	AA	1503	A
1	AA	1504	G
1	AA	1528	U
18	B3	10	U
18	B3	95	A
18	B3	115	U
18	B3	191	A

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Mol	Chain	Res	Type
18	B3	196	G
18	B3	199	A
18	B3	270	U
18	B3	282	C
18	B3	283	U
18	B3	284	C
18	B3	338	C
18	B3	367	G
18	B3	394	G
18	B3	438	C
18	B3	452	G
18	B3	485	A
18	B3	496	G
18	B3	514	G
18	B3	554	G
18	B3	600	G
18	B3	603	A
18	B3	681	G
18	B3	699	C
18	B3	713	U
18	B3	817	G
18	B3	855	U
18	B3	857	A
18	B3	877	G
18	B3	894	A
18	B3	904	U
18	B3	939	A
18	B3	952	G
18	B3	1044	C
18	B3	1059	G
18	B3	1072	G
18	B3	1080	C
18	B3	1088	A
18	B3	1106	A
18	B3	1108	G
18	B3	1126	C
18	B3	1137	G
18	B3	1149	U
18	B3	1206	C
18	B3	1214	G
18	B3	1237	U
18	B3	1309	U

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Mol	Chain	Res	Type
18	B3	1329	A
18	B3	1352	A
18	B3	1369	A
18	B3	1379	A
18	B3	1406	A
18	B3	1408	U
18	B3	1448	A
18	B3	1450	C
18	B3	1506	U
18	B3	1534	C
18	B3	1591	A
18	B3	1603	A
18	B3	1605	G
18	B3	1624	A
18	B3	1683	G
18	B3	1690	C
18	B3	1699	C
18	B3	1835	U
18	B3	1853	C
18	B3	1856	C
18	B3	1907	U
18	B3	1978	A
18	B3	1979	G
18	B3	1981	A
18	B3	2011	A
18	B3	2074	A
18	B3	2076	U
18	B3	2083	A
18	B3	2090	G
18	B3	2133	U
18	B3	2151	G
18	B3	2152	C
18	B3	2157	G
18	B3	2159	U
18	B3	2167	A
18	B3	2216	A
18	B3	2217	U
18	B3	2242	U
18	B3	2245	C
18	B3	2258	A
18	B3	2282	U
18	B3	2283	G

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Mol	Chain	Res	Type
18	B3	2290	U
18	B3	2316	G
18	B3	2321	A
18	B3	2338	G
18	B3	2370	A
18	B3	2395	A
18	B3	2421	G
18	B3	2427	C
18	B3	2463	A
18	B3	2465	A
18	B3	2467	A
18	B3	2468	A
18	B3	2482	G
18	B3	2526	C
18	B3	2616	G
18	B3	2692	G
18	B3	2714	U
18	B3	2718	C
18	B3	2748	G
18	B3	2749	U
18	B3	2791	U
18	B3	2813	A
18	B3	2814	A
18	B3	2836	G
18	B3	2849	U
18	B3	2866	U
18	B3	2890	A
19	B4	1	U
19	B4	3	A
19	B4	28	U
19	B4	55	U
19	B4	65	A

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
18	B3	37
1	AA	25
20	BA	2
30	BK	2
2	AT	1
13	AM	1
6	AE	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AA	142:G	O3'	143:A	P	21.73
1	AT	480:VAL	C	481:MET	N	21.40
1	AA	178:C	O3'	179:A	P	20.38
1	AA	454:C	O3'	455:C	P	14.81
1	B3	125:U	O3'	129:A	P	14.08
1	B3	1228:C	O3'	1229:C	P	13.08
1	AA	436:C	O3'	437:U	P	12.44
1	BA	154:THR	C	155:ILE	N	12.24
1	B3	1133:A	O3'	1134:G	P	12.09
1	AM	108:LYS	C	109:LEU	N	12.06
1	AA	68:G	O3'	69:G	P	10.04
1	AA	477:G	O3'	478:A	P	9.63
1	B3	1154:A	O3'	1155:G	P	9.26
1	AA	925:G	O3'	926:G	P	9.19
1	AA	239:U	O3'	240:C	P	9.04
1	BK	74:VAL	C	75:PRO	N	8.81
1	BA	53:LEU	C	54:LYS	N	8.53
1	AA	990:C	O3'	991:U	P	8.49
1	AA	1045:C	O3'	1046:A	P	8.43

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B3	1300:G	O3'	1301:C	P	8.19
1	B3	589:U	O3'	590:A	P	8.11
1	B3	1354:G	O3'	1355:A	P	8.08
1	AA	545:C	O3'	546:G	P	7.52
1	B3	1947:G	O3'	1948:G	P	7.43
1	B3	296:G	O3'	297:U	P	7.31
1	B3	607:G	O3'	608:A	P	6.89
1	AA	121:C	O3'	122:G	P	6.86
1	B3	354:A	O3'	355:C	P	6.74
1	B3	377:C	O3'	378:A	P	6.50
1	AA	562:C	O3'	563:A	P	5.94
1	AA	365:U	O3'	366:C	P	5.87
1	B3	1160:G	O3'	1161:A	P	5.83
1	AA	99:C	O3'	101:A	P	5.75
1	AA	1390:U	O3'	1391:U	P	5.70
1	AA	1505:G	O3'	1506:U	P	5.62
1	B3	272:A	O3'	273:G	P	5.60
1	AA	403:C	O3'	404:U	P	5.46
1	B3	567:U	O3'	568:G	P	5.41
1	AA	220:G	O3'	221:C	P	5.32
1	B3	2136:G	O3'	2137:U	P	5.27
1	B3	2329:C	O3'	2330:U	P	5.20
1	B3	2241:C	O3'	2242:U	P	5.17
1	B3	548:U	O3'	549:A	P	5.09
1	B3	2356:A	O3'	2357:G	P	5.07
1	AA	546:G	O3'	547:A	P	4.89
1	B3	2229:C	O3'	2230:C	P	4.84
1	AA	1189:C	O3'	1190:G	P	4.83
1	B3	2531:U	O3'	2532:A	P	4.78
1	AA	1396:A	O3'	1397:C	P	4.60
1	AE	137:PRO	C	138:ILE	N	4.02
1	B3	48:A	O3'	49:A	P	3.94
1	B3	112:G	O3'	113:A	P	3.94
1	B3	1212:C	O3'	1213:C	P	3.94
1	B3	515:C	O3'	516:A	P	3.93
1	AA	499:A	O3'	500:G	P	3.90
1	B3	797:A	O3'	798:G	P	3.84
1	B3	970:U	O3'	972:C	P	3.84
1	B3	2552:C	O3'	2553:A	P	3.71
1	B3	815:U	O3'	816:G	P	3.57
1	AA	141:A	O3'	142:G	P	3.52
1	B3	2581:U	O3'	2582:G	P	3.42

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B3	480:C	O3'	481:U	P	3.32
1	B3	2489:G	O3'	2490:A	P	3.25
1	AA	46:G	O3'	47:C	P	2.61
1	B3	2245:C	O3'	2246:U	P	1.82
1	BK	75:PRO	C	76:SER	N	1.63
1	B3	2168:G	O3'	2169:C	P	1.22
1	B3	2133:U	O3'	2134:G	P	0.93
1	B3	1206:C	O3'	1207:A	P	0.90

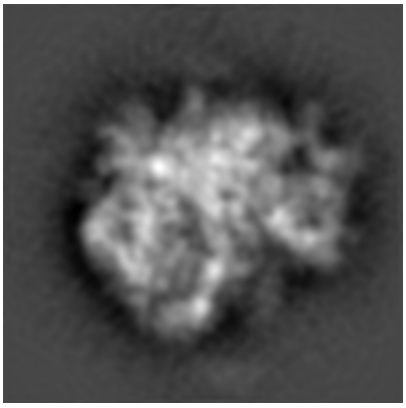
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-1067. These allow visual inspection of the internal detail of the map and identification of artifacts.

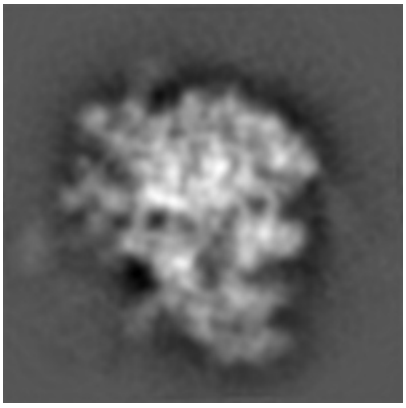
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections (i)

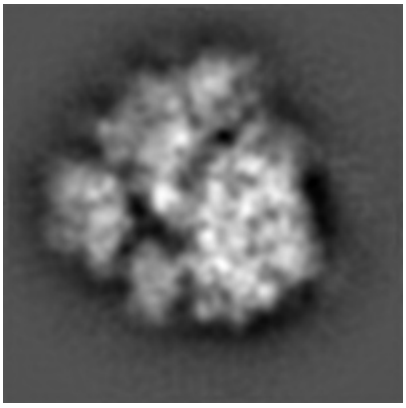
6.1.1 Primary map



X



Y

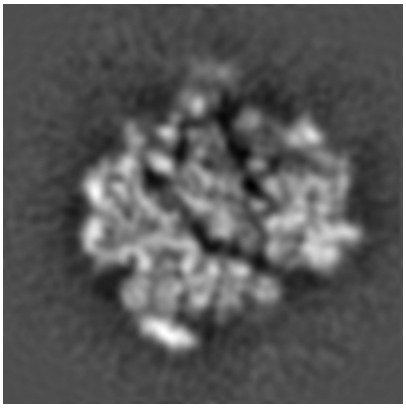


Z

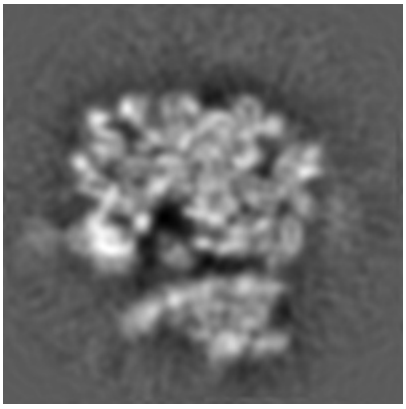
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

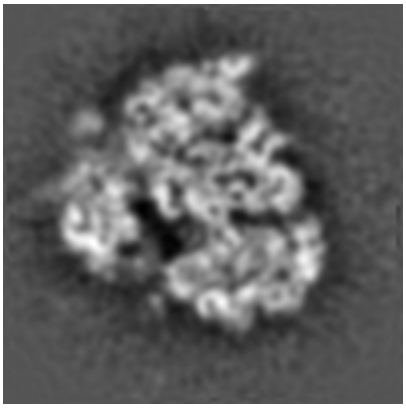
6.2.1 Primary map



X Index: 62



Y Index: 62

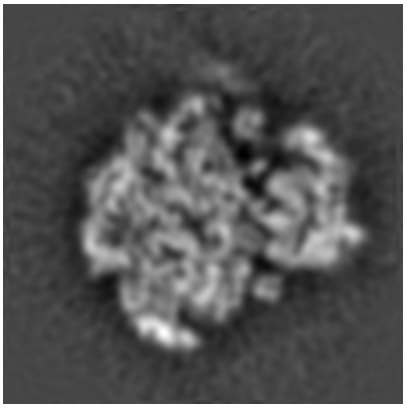


Z Index: 62

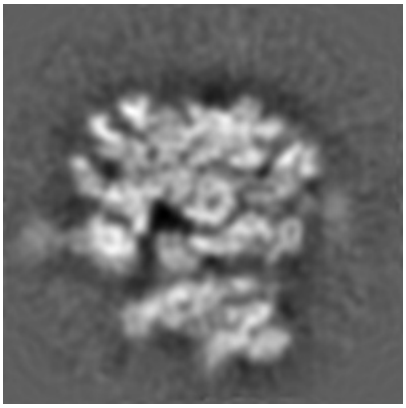
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

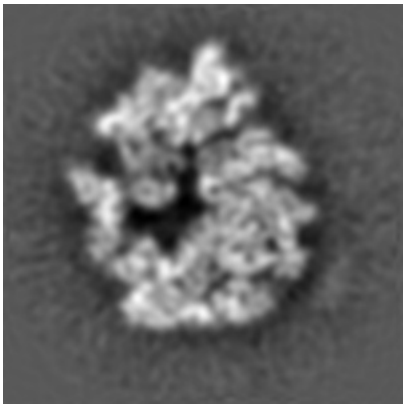
6.3.1 Primary map



X Index: 64



Y Index: 64

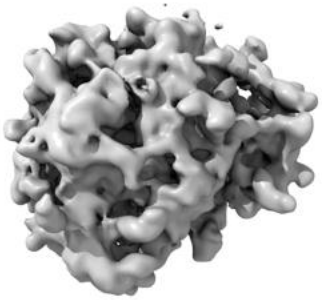


Z Index: 53

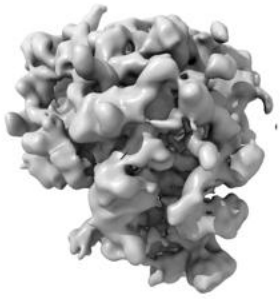
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

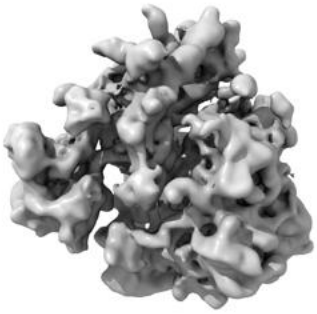
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.000477. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

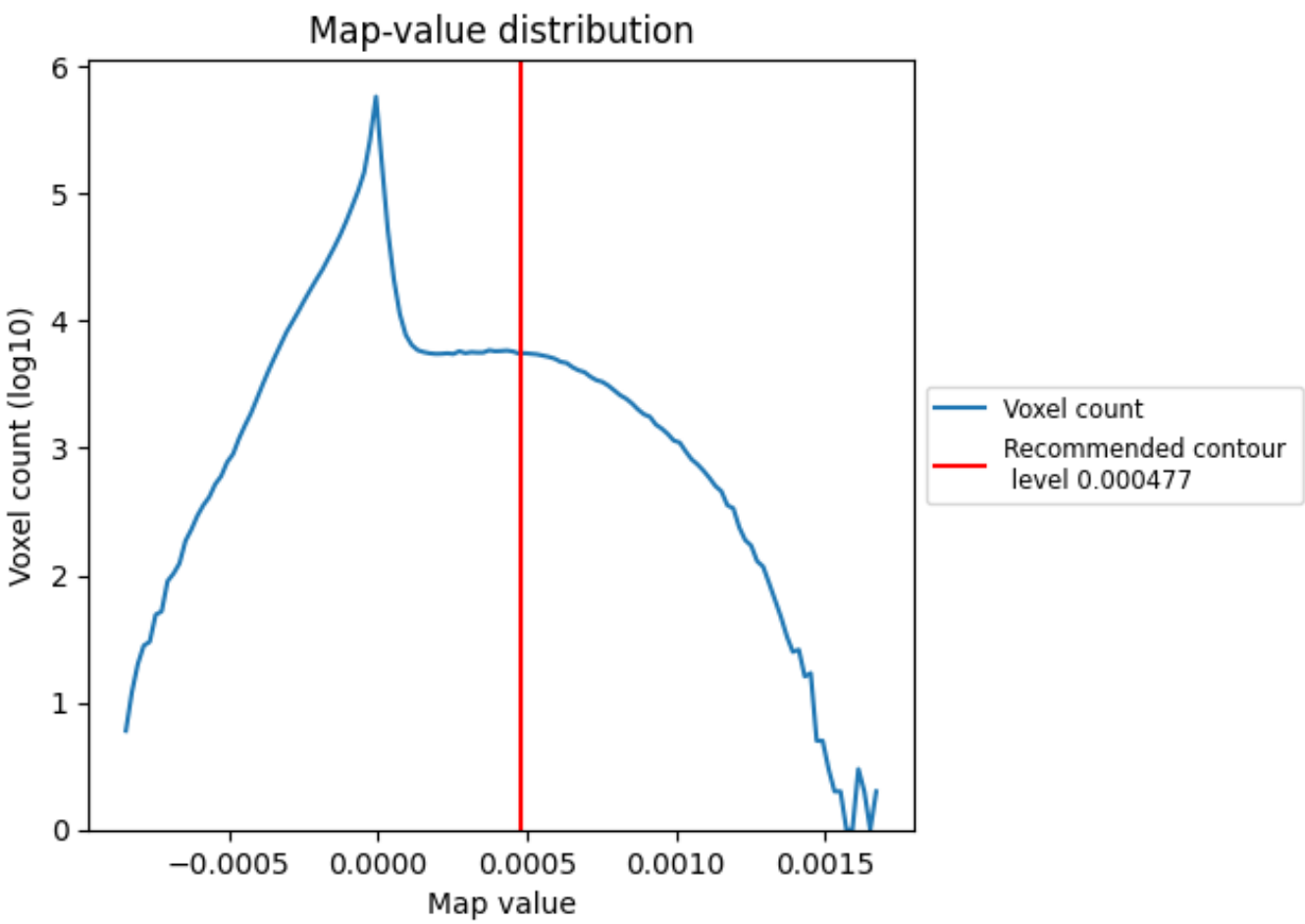
6.5 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis (i)

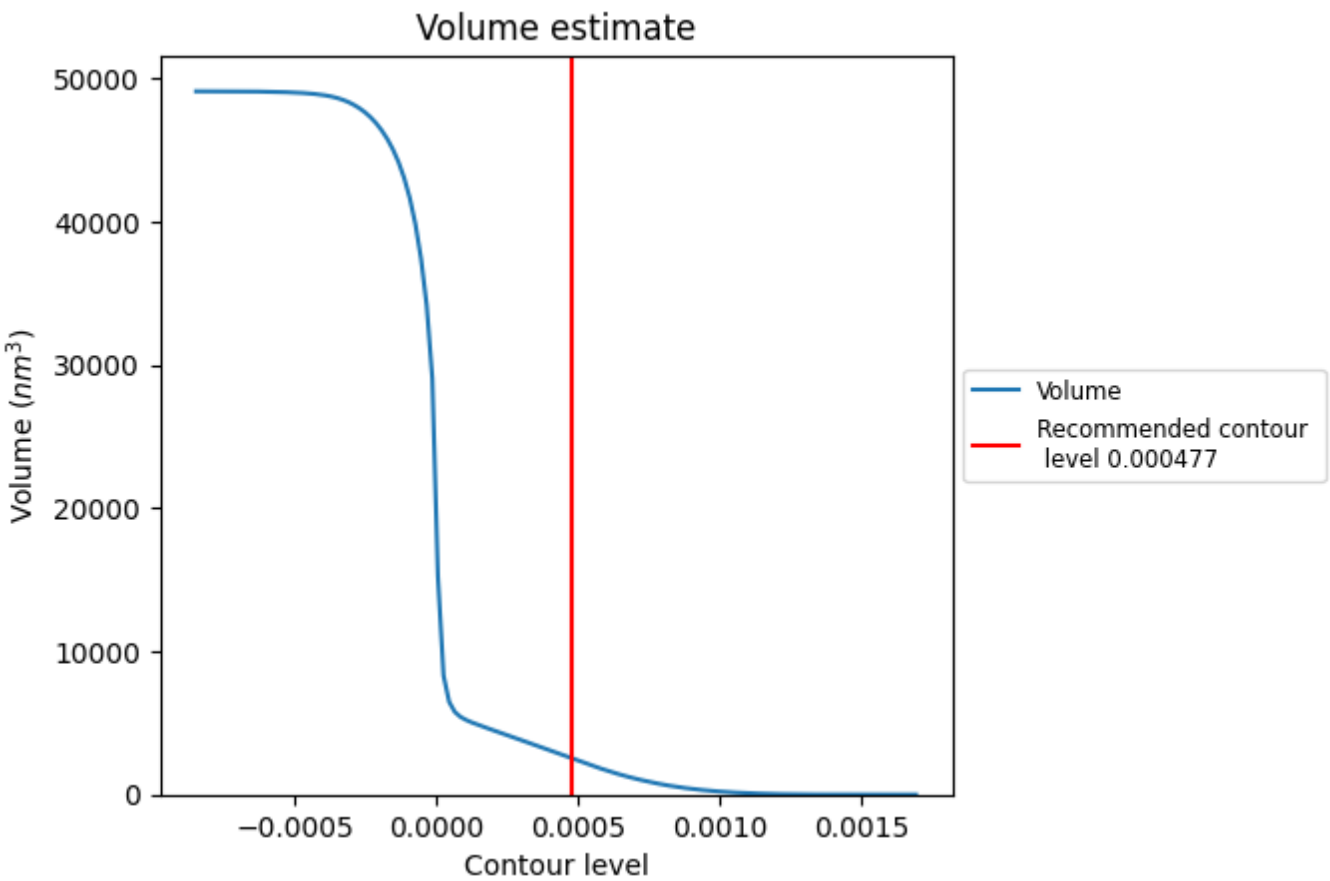
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution (i)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

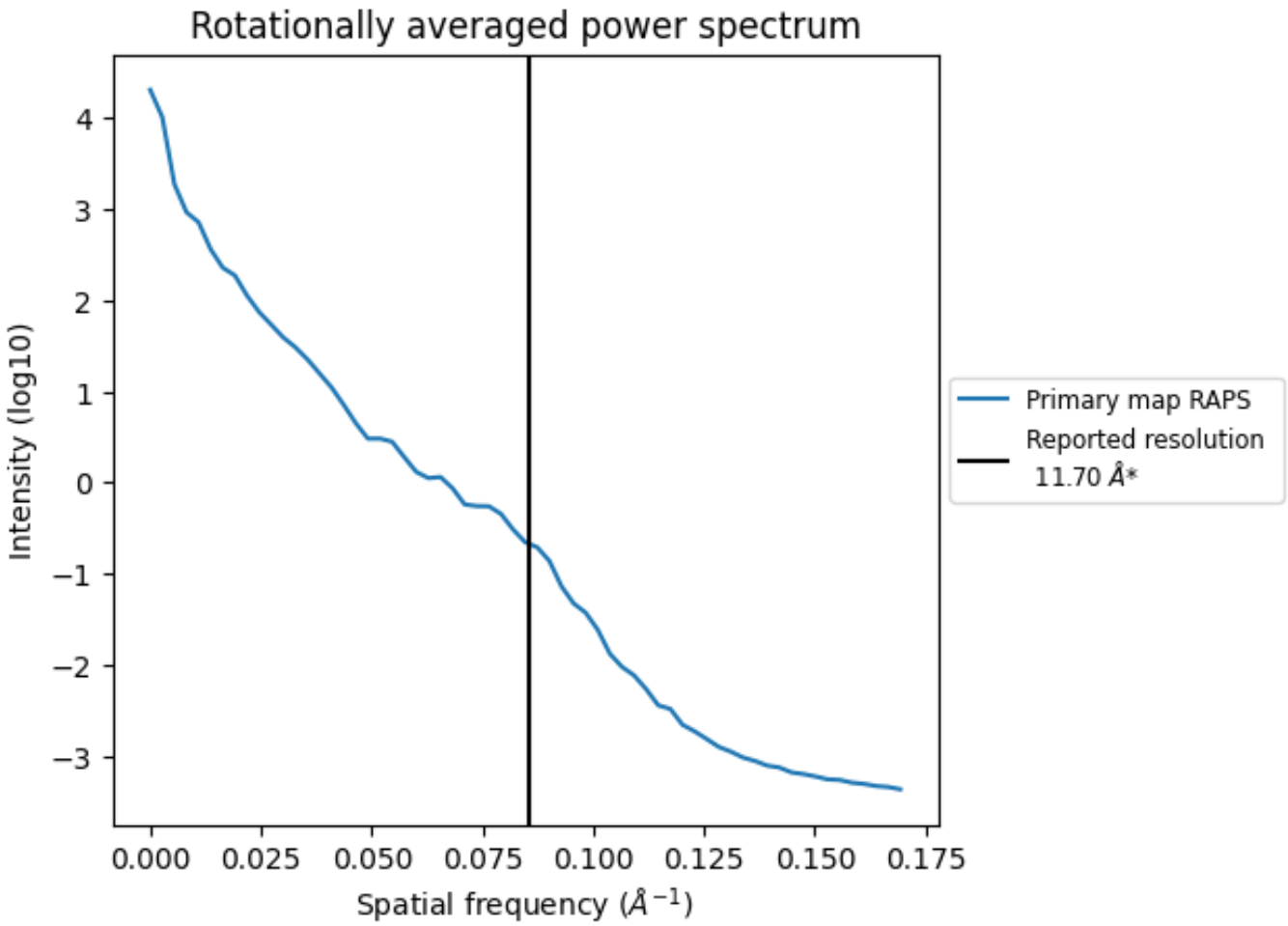
7.2 Volume estimate (i)



The volume at the recommended contour level is 2527 nm^3; this corresponds to an approximate mass of 2282 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.085 Å^{-1}

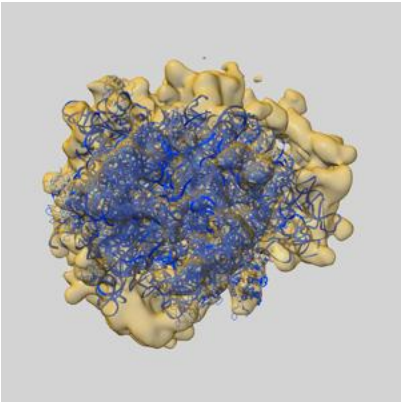
8 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.

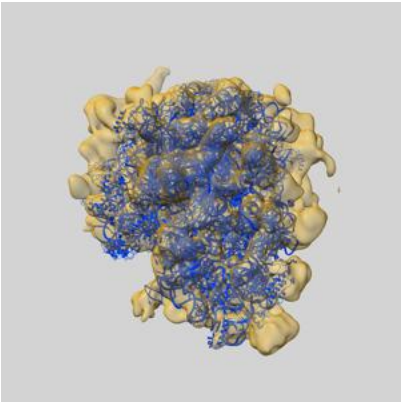
9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-1067 and PDB model 4V4B. Per-residue inclusion information can be found in section 3 on page 16.

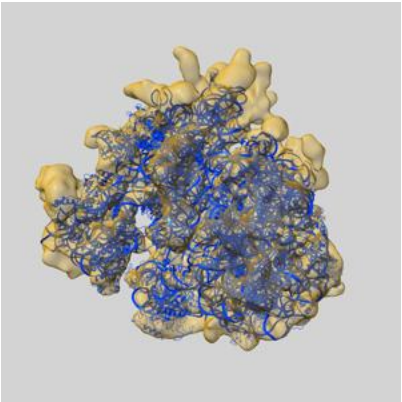
9.1 Map-model overlay (i)



X



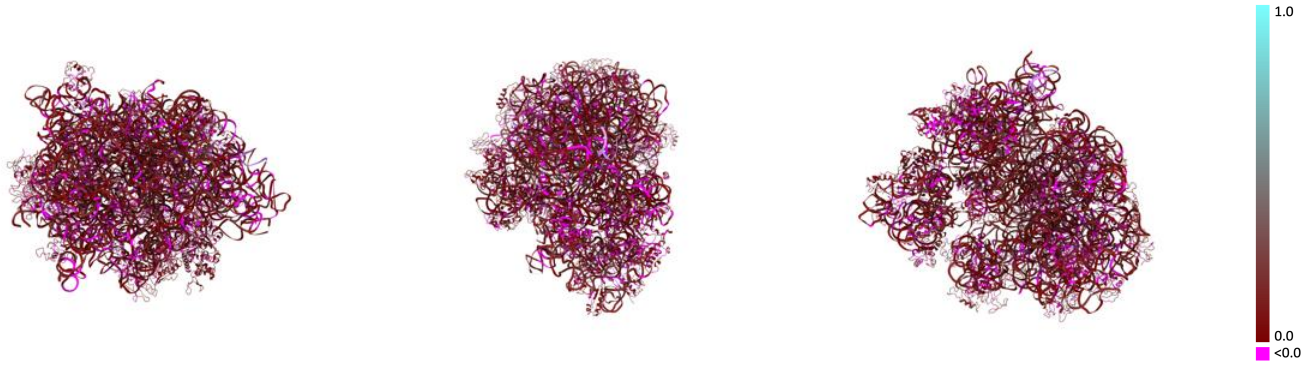
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.000477 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

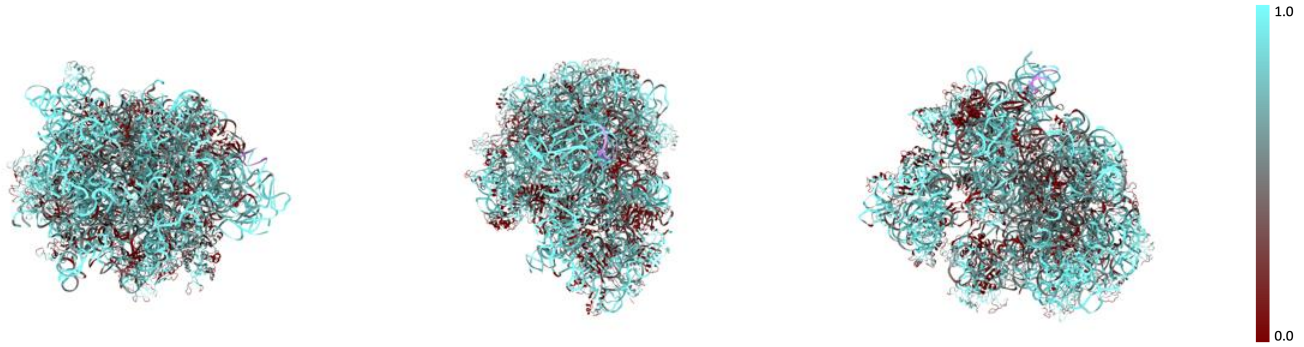
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

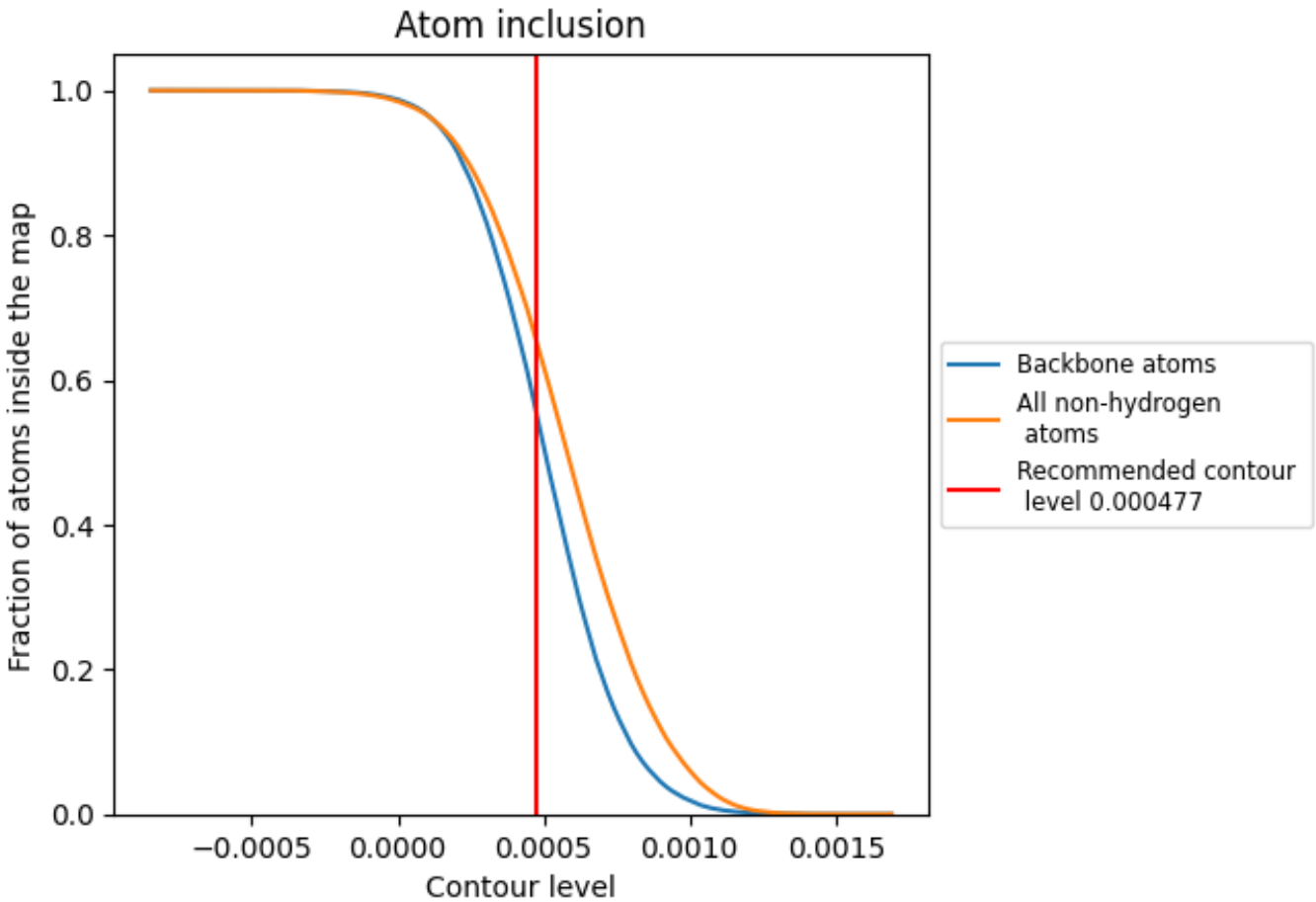
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.000477).

9.4 Atom inclusion (i)



At the recommended contour level, 55% of all backbone atoms, 65% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.000477) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6512	0.0780
AA	0.7948	0.0880
AB	0.5788	0.0270
AC	0.3882	0.0850
AD	0.5681	0.0210
AE	0.2906	0.0510
AG	0.6389	0.0620
AH	0.1373	0.0470
AI	0.6255	0.0440
AJ	0.4409	0.0830
AK	0.4939	0.0610
AL	0.1020	0.0400
AM	0.6635	0.0660
AN	0.3407	0.0350
AO	0.6245	0.0240
AQ	0.2759	0.0470
AS	0.8621	0.0350
AT	0.4456	0.0880
B0	0.2932	0.0050
B3	0.7520	0.0930
B4	0.8442	0.1050
B9	0.0510	0.0660
BA	0.1151	0.0430
BB	0.1308	0.0110
BC	0.5367	0.0540
BD	0.5283	0.0490
BE	0.8350	0.0630
BF	0.2272	0.0420
BG	0.7834	0.0640
BH	0.4837	0.0710
BI	0.4337	0.0700
BJ	0.5894	0.0610
BK	0.2393	0.0600
BL	0.2962	-0.0030
BM	0.1652	0.0060

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
BN	0.5336	0.0690
BO	0.6290	0.0590
BP	0.3887	0.0670
BQ	0.3031	0.0150
BR	0.0881	0.0400
BS	0.3877	0.0570
BT	0.4595	0.0630
BU	0.6595	0.0520
BV	0.5245	0.0270
BW	0.4833	0.0590
BX	0.6101	0.1170
BY	0.3959	0.0370
BZ	0.2788	0.0500