



Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 12:35 AM EST

PDB ID : 4V4W
EMDB ID : EMD-1143
Title : Structure of a SecM-stalled E. coli ribosome complex obtained by fitting atomic models for RNA and protein components into cryo-EM map EMD-1143
Authors : Mitra, K.; Frank, J.
Deposited on : 2006-05-09
Resolution : 15.00 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 ⓘ symbol.

The types of validation reports are described at

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

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

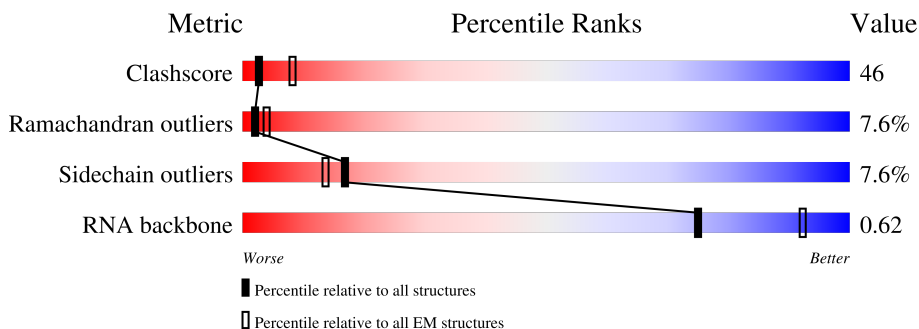
EMDB validation analysis : 0.0.1.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.3

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 15.00 Å.

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



Metric	Whole archive (#Entries)	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 $\leq 5\%$. 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	1488	49% (Poor fit) 28% (0 outliers), 53% (1 outlier), 18% (2 outliers), 1% (3+ outliers)
2	AU	76	46% (Poor fit) 28% (0 outliers), 58% (1 outlier), 14% (2 outliers)
2	AV	76	21% (Poor fit) 30% (0 outliers), 58% (1 outlier), 12% (2 outliers)
2	AW	76	30% (Poor fit) 26% (0 outliers), 59% (1 outlier), 14% (2 outliers)
3	AB	236	97% (Poor fit) 44% (0 outliers), 51% (1 outlier)
4	AC	206	89% (Poor fit) 40% (0 outliers), 54% (1 outlier), 5% (2 outliers)
5	AD	204	99% (Poor fit) 41% (0 outliers), 57% (1 outlier)

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Mol	Chain	Length	Quality of chain
6	AE	148	86% 40% 57%
7	AF	95	97% 33% 63%
8	AG	137	90% 49% 42% 9%
9	AH	127	100% 40% 56%
10	AI	126	79% 30% 61% 8%
11	AJ	96	78% 34% 58% 7%
12	AK	116	70% 46% 47% 6%
13	AL	101	26% 44% 49% 8%
14	AM	115	83% 57% 39%
15	AN	61	100% 44% 49% 7%
16	AO	86	67% 45% 55%
17	AP	78	97% 38% 56% 5%
18	AQ	79	80% 44% 52%
19	AR	69	72% 42% 57%
20	AS	87	95% 37% 56% 7%
21	AT	83	76% 36% 55% 8%
22	B0	2740	42% 25% 56% 19%
23	B9	108	94% 31% 53% 17%
24	B2	222	97% 44% 52%
25	B3	119	76% 33% 61% 7%
25	B5	119	96% 34% 59% 7%
26	BA	227	78% 28% 54% 15%
27	BB	209	74% 32% 61% 6%
28	BC	198	69% 20% 65% 13%
29	BD	177	93% 36% 44% 16%

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Mol	Chain	Length	Quality of chain
30	BE	167	96% 53% 42% 5%
31	BF	149	97% 64% 34%
32	BG	139	98% 31% 53% 15%
33	BH	142	81% 20% 56% 18% 6%
34	BI	122	39% 41% 49% 10%
35	BJ	140	62% 29% 40% 28%
36	BK	131	49% 41% 42% 15%
37	BL	114	71% 29% 53% 18%
38	BM	113	89% 52% 43%
39	BN	114	81% 12% 50% 33%
40	BO	115	56% 12% 63% 24%
41	BQ	106	54% 15% 68% 17%
42	BR	92	51% 15% 58% 23%
43	BS	99	95% 44% 46% 9%
44	BT	94	94% 48% 47% 5%
45	BU	84	69% 29% 46% 24%
46	BW	60	78% 27% 60% 13%
47	BX	56	95% 39% 57%
48	BZ	29	100% 21% 45% 28% 7%
49	B1	52	96% 35% 46% 17%

2 Entry composition [i](#)

There are 49 unique types of molecules in this entry. The entry contains 141668 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 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	AA	1488	31924	14238	5854	10345	1487	0	0

- Molecule 2 is a RNA chain called tRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
2	AU	76	1622	725	293	529	75	0	0
2	AV	76	1622	725	293	529	75	0	0
2	AW	76	1622	725	293	529	75	0	0

- Molecule 3 is a protein called 30S ribosomal subunit protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	AB	236	1847	1165	328	346	8	0	0

- Molecule 4 is a protein called 30S ribosomal subunit protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	AC	206	1625	1028	305	289	3	0	0

- Molecule 5 is a protein called 30S ribosomal subunit protein S4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	AD	204	1638	1023	314	297	4	0	0

- Molecule 6 is a protein called 30S ribosomal subunit protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	AE	148	1093	679	208	200	6	0	0

- Molecule 7 is a protein called 30S ribosomal subunit protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	AF	95	784	495	143	140	6	0	0

- Molecule 8 is a protein called 30S ribosomal subunit protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	AG	137	1079	671	204	200	4	0	0

- Molecule 9 is a protein called 30S ribosomal subunit protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	AH	127	968	610	171	181	6	0	0

- Molecule 10 is a protein called 30S ribosomal subunit protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	AI	126	1014	630	204	177	3	0	0

- Molecule 11 is a protein called 30S ribosomal subunit protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	AJ	96	773	484	148	140	1	0	0

- Molecule 12 is a protein called 30S ribosomal subunit protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	AK	116	870	535	173	159	3	0	0

- Molecule 13 is a protein called 30S ribosomal subunit protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AL	101	Total	C	N	O	S	0	0
			787	486	159	138	4		

- Molecule 14 is a protein called 30S ribosomal subunit protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AM	115	Total	C	N	O	S	0	0
			892	552	179	158	3		

- Molecule 15 is a protein called 30S ribosomal subunit protein S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AN	61	Total	C	N	O	S	0	0
			500	310	108	80	2		

- Molecule 16 is a protein called 30S ribosomal subunit protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AO	86	Total	C	N	O	S	0	0
			697	430	139	127	1		

- Molecule 17 is a protein called 30S ribosomal subunit protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AP	78	Total	C	N	O	S	0	0
			622	390	122	109	1		

- Molecule 18 is a protein called 30S ribosomal subunit protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AQ	79	Total	C	N	O	S	0	0
			640	405	119	113	3		

- Molecule 19 is a protein called 30S ribosomal subunit protein S18.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AR	69	Total	C	N	O	S	0	0
			576	362	112	101	1		

- Molecule 20 is a protein called 30S ribosomal subunit protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AS	87	Total	C	N	O	S	0	0
			695	443	132	118	2		

- Molecule 21 is a protein called 30S ribosomal subunit protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	AT	83	Total	C	N	O	S	0	0
			649	401	134	111	3		

- Molecule 22 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	B0	2740	Total	C	N	O	P	0	0
			58824	26239	10826	19019	2740		

- Molecule 23 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	B9	108	Total	C	N	O	P	0	0
			2310	1030	423	750	107		

- Molecule 24 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	B2	222	Total	C	N	O	S	0	0
			1652	1031	301	314	6		

- Molecule 25 is a protein called 50S ribosomal protein L7/L12.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	B3	119	Total	C	N	O	S	0	0
			845	531	137	174	3		
25	B5	119	Total	C	N	O	S	0	0
			845	531	137	174	3		

- Molecule 26 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	BA	227	Total	C	N	O	S	0	0
			1733	1064	352	311	6		

- Molecule 27 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	BB	209	1565	979	288	294	4	0	0

- Molecule 28 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
28	BC	198	1531	960	280	287	4	0	0

- Molecule 29 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	BD	177	1415	902	250	257	6	0	0

- Molecule 30 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	BE	167	1253	789	228	234	2	0	0

- Molecule 31 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	BF	149	1111	699	197	214	1	0	0

- Molecule 32 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	BG	139	1019	644	177	192	6	0	0

- Molecule 33 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
33	BH	142	1129	714	212	199	4	0	0

- Molecule 34 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BI	122	Total	C	N	O	S	0	0
			939	588	180	166	5		

- Molecule 35 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	BJ	140	Total	C	N	O	S	0	0
			1017	632	200	184	1		

- Molecule 36 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	BK	131	Total	C	N	O	S	0	0
			1036	661	200	171	4		

- Molecule 37 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BL	114	Total	C	N	O	S	0	0
			908	564	184	156	4		

- Molecule 38 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	BM	113	Total	C	N	O	0	0
			864	534	174	156		

- Molecule 39 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BN	114	Total	C	N	O	S	0	0
			917	574	179	163	1		

- Molecule 40 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				AltConf	Trace
40	BO	115	Total	C	N	O	0	0
			937	598	190	149		

- Molecule 41 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BQ	106	Total	C	N	O	S	0	0
			825	512	162	149	2		

- Molecule 42 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	BR	92	Total	C	N	O	S	0	0
			717	455	132	129	1		

- Molecule 43 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	BS	99	Total	C	N	O	0	0
			762	480	143	139		

- Molecule 44 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	BT	94	Total	C	N	O	S	0	0
			753	479	137	134	3		

- Molecule 45 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BU	84	Total	C	N	O	S	0	0
			634	391	129	113	1		

- Molecule 46 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BW	60	Total	C	N	O	S	0	0
			495	305	96	92	2		

- Molecule 47 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	BX	56	Total	C	N	O	S	0	0
			435	272	84	77	2		

- Molecule 48 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
48	BZ	29	234	145	47	42	0	0

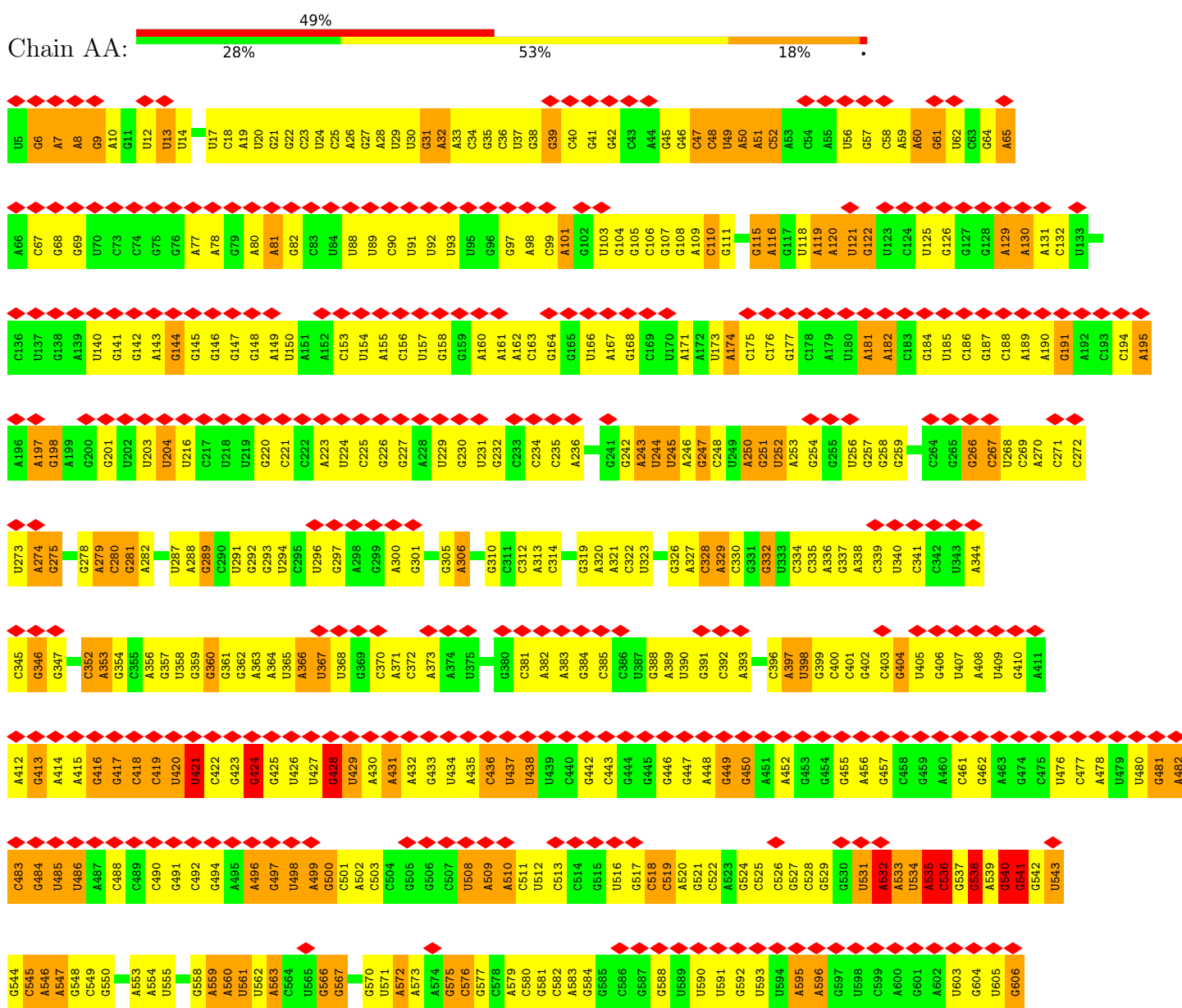
- Molecule 49 is a protein called 50S ribosomal protein L33.

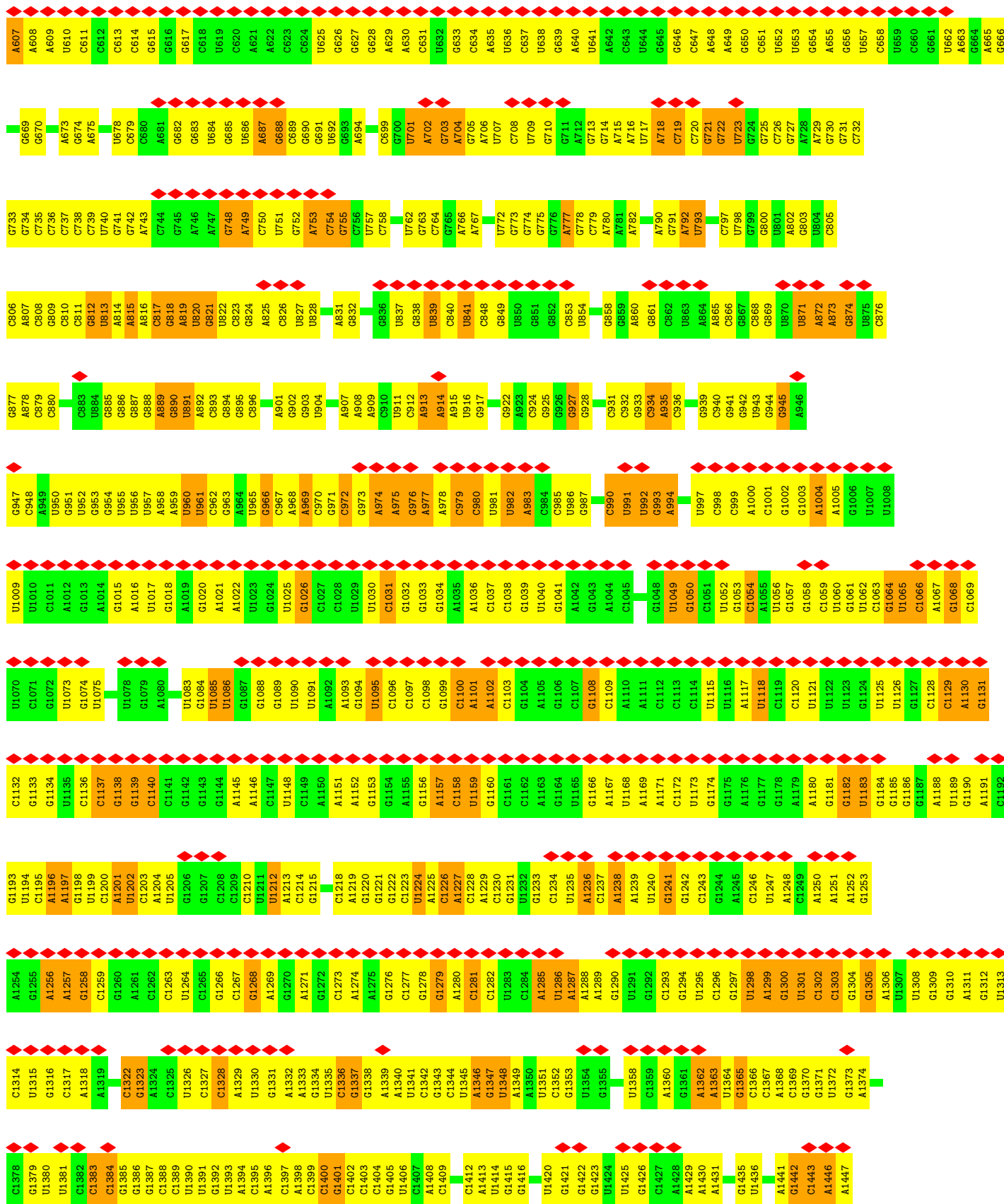
Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
49	B1	52	424	272	78	74	0	0

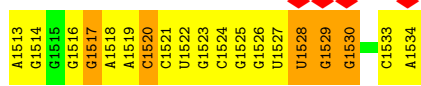
3 Residue-property plots

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

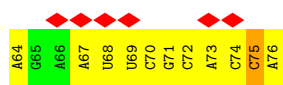
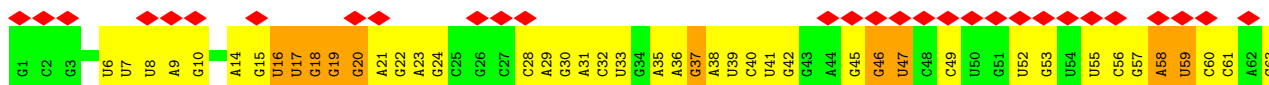
- Molecule 1: 16S ribosomal RNA



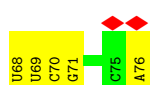
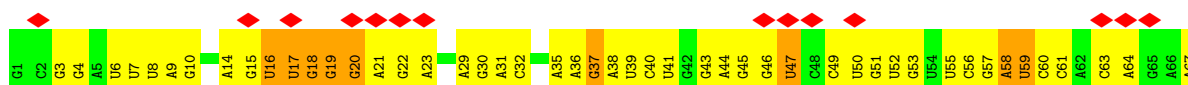




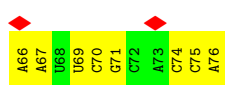
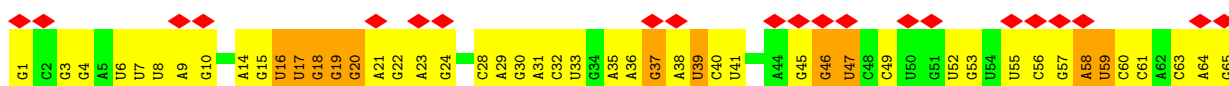
• Molecule 2: tRNA



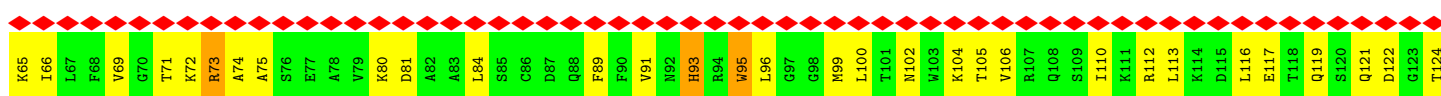
• Molecule 2: tRNA

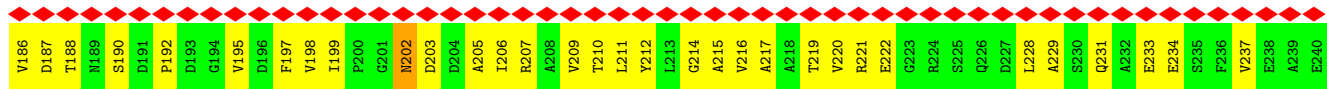
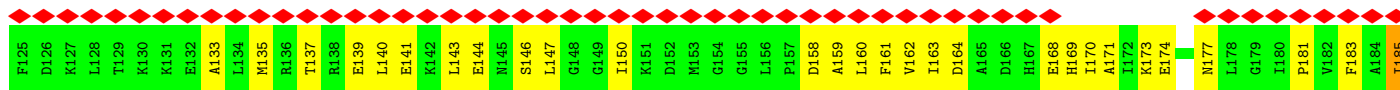


• Molecule 2: tRNA

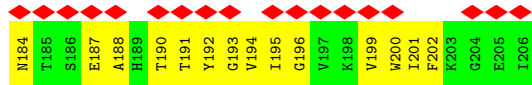
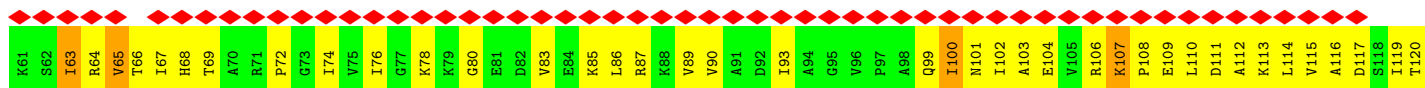
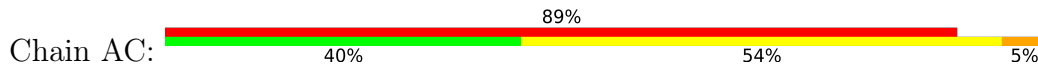


• Molecule 3: 30S ribosomal subunit protein S2

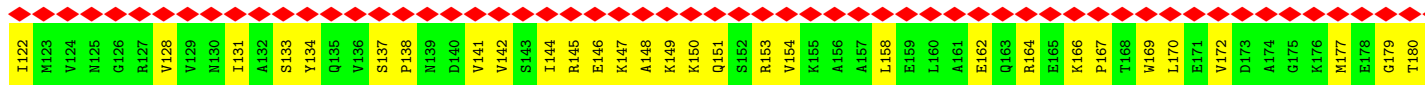
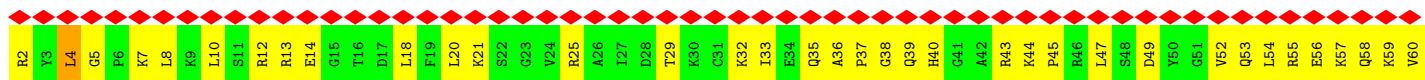
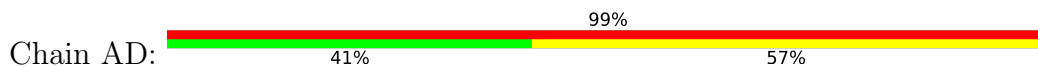




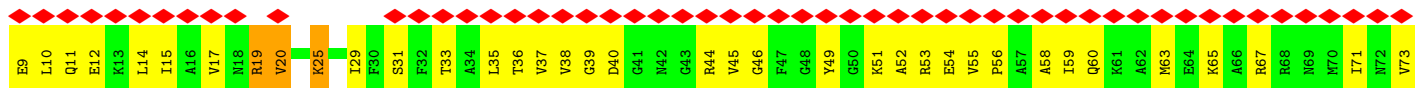
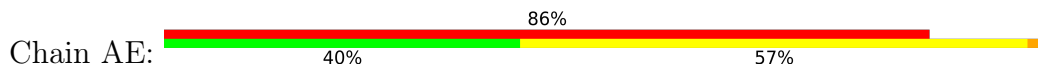
• Molecule 4: 30S ribosomal subunit protein S3

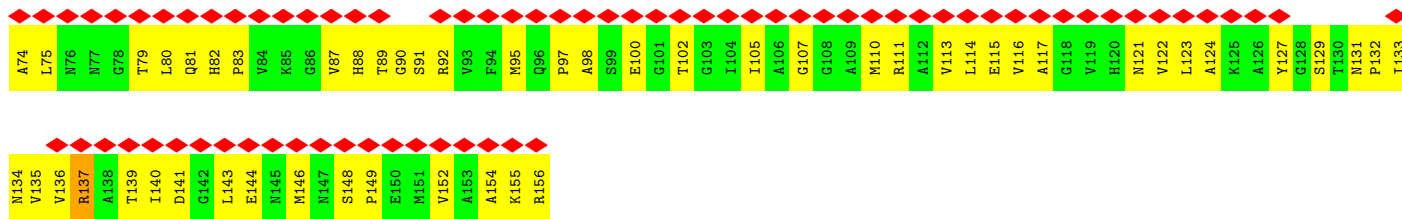


• Molecule 5: 30S ribosomal subunit protein S4

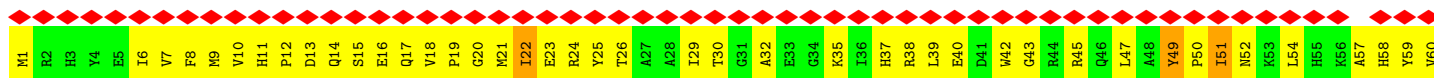


• Molecule 6: 30S ribosomal subunit protein S5

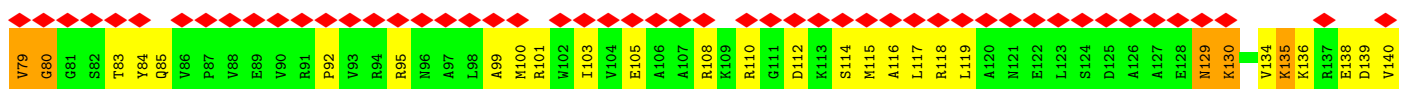
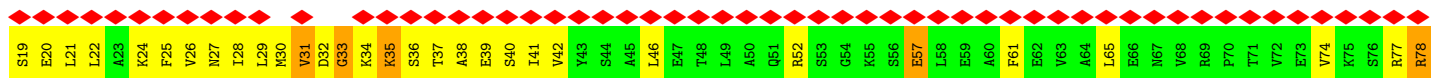




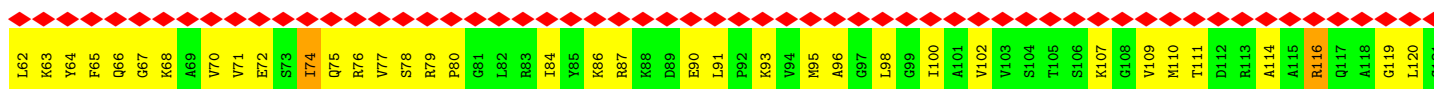
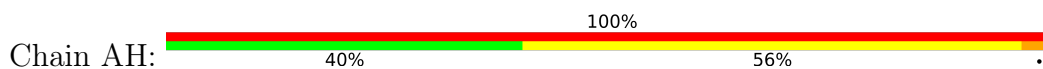
• Molecule 7: 30S ribosomal subunit protein S6



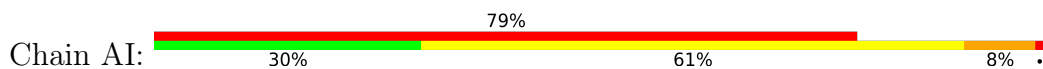
• Molecule 8: 30S ribosomal subunit protein S7

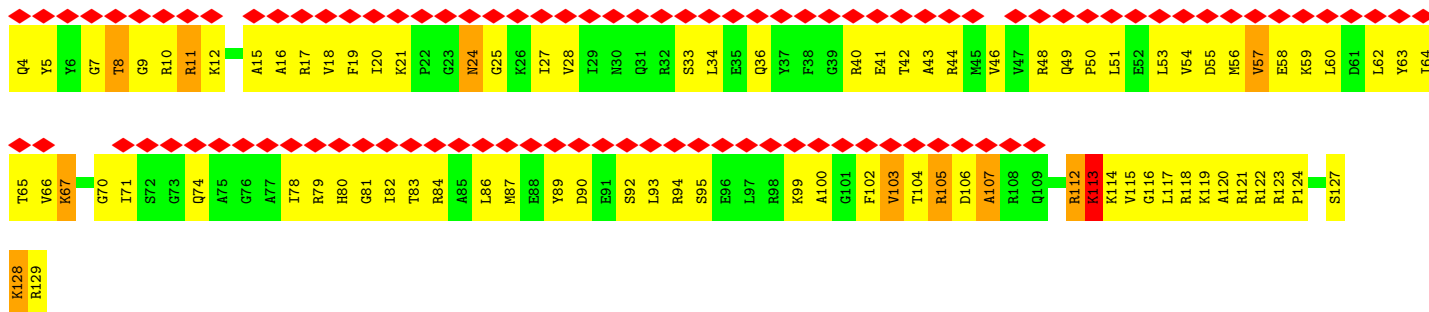


• Molecule 9: 30S ribosomal subunit protein S8

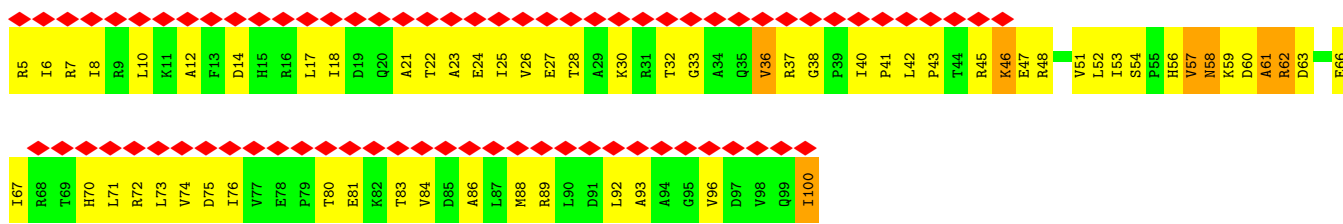
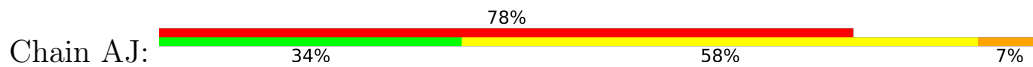


• Molecule 10: 30S ribosomal subunit protein S9

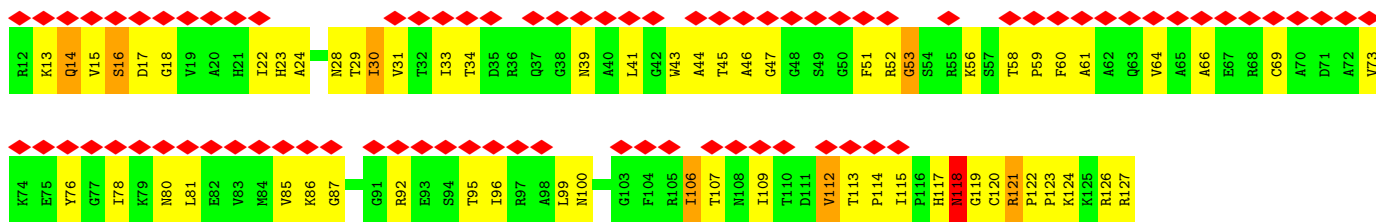
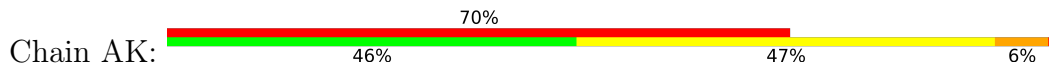




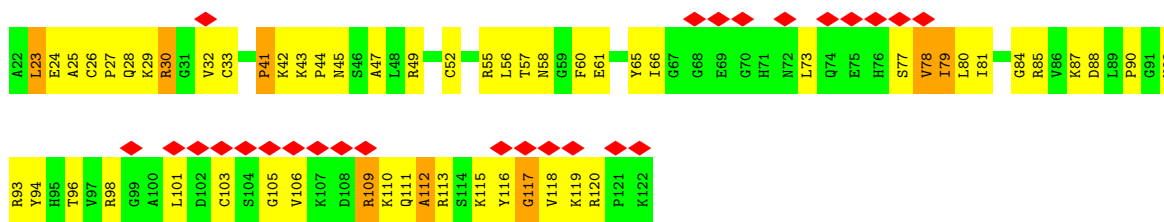
• Molecule 11: 30S ribosomal subunit protein S10



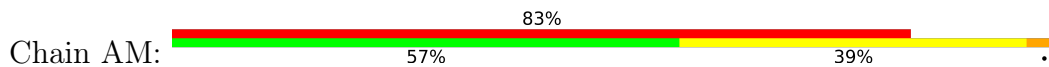
• Molecule 12: 30S ribosomal subunit protein S11

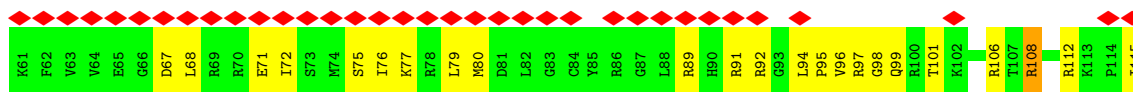


• Molecule 13: 30S ribosomal subunit protein S12

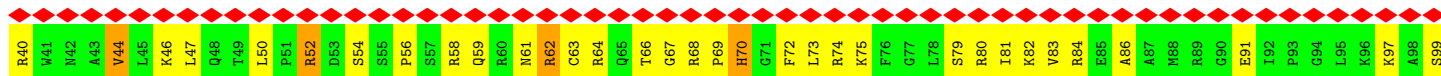
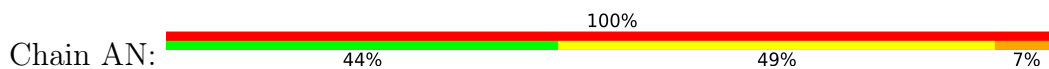


• Molecule 14: 30S ribosomal subunit protein S13





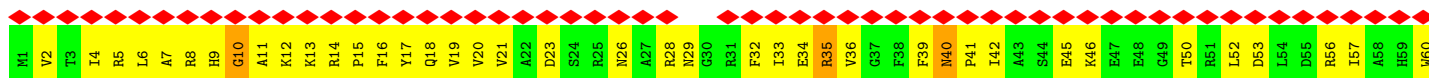
• Molecule 15: 30S ribosomal subunit protein S14



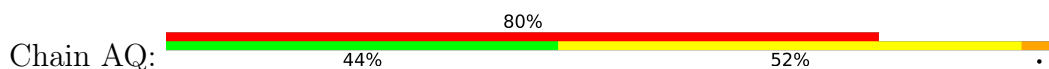
• Molecule 16: 30S ribosomal subunit protein S15



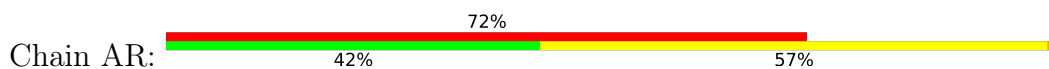
• Molecule 17: 30S ribosomal subunit protein S16

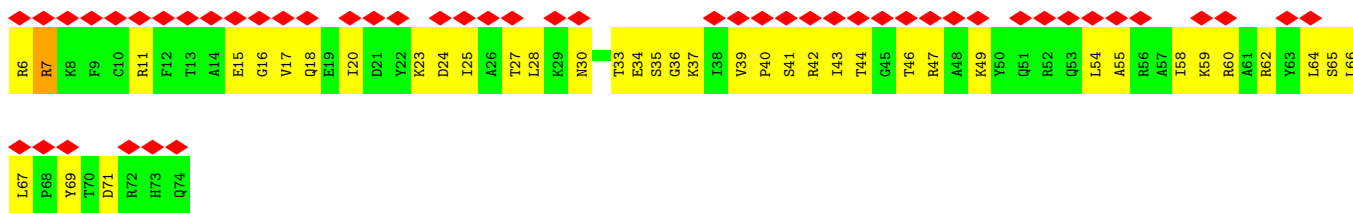


• Molecule 18: 30S ribosomal subunit protein S17

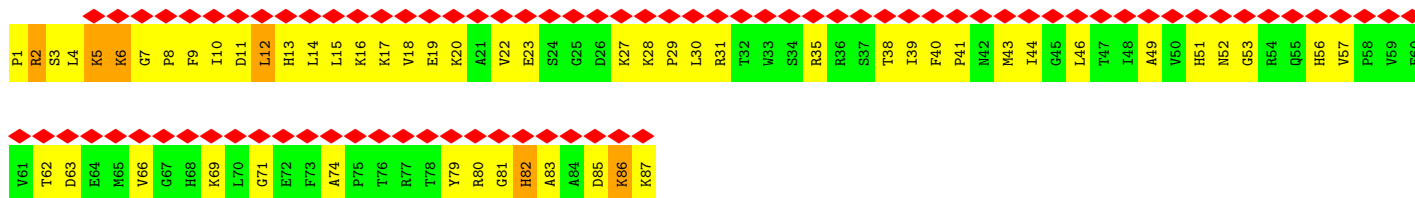
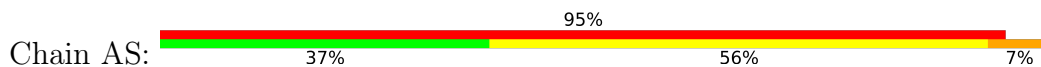


• Molecule 19: 30S ribosomal subunit protein S18

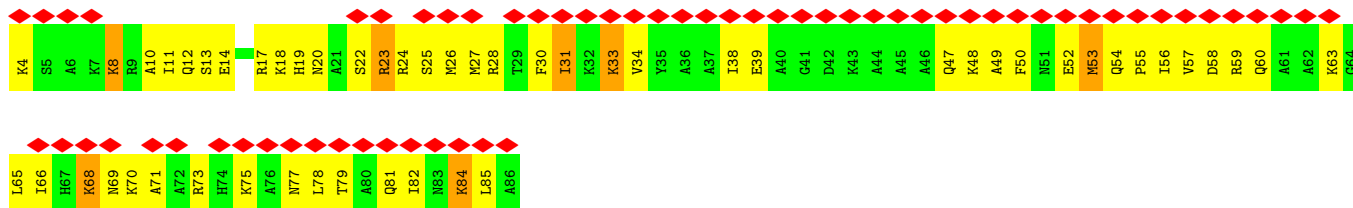
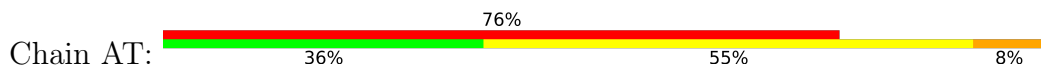




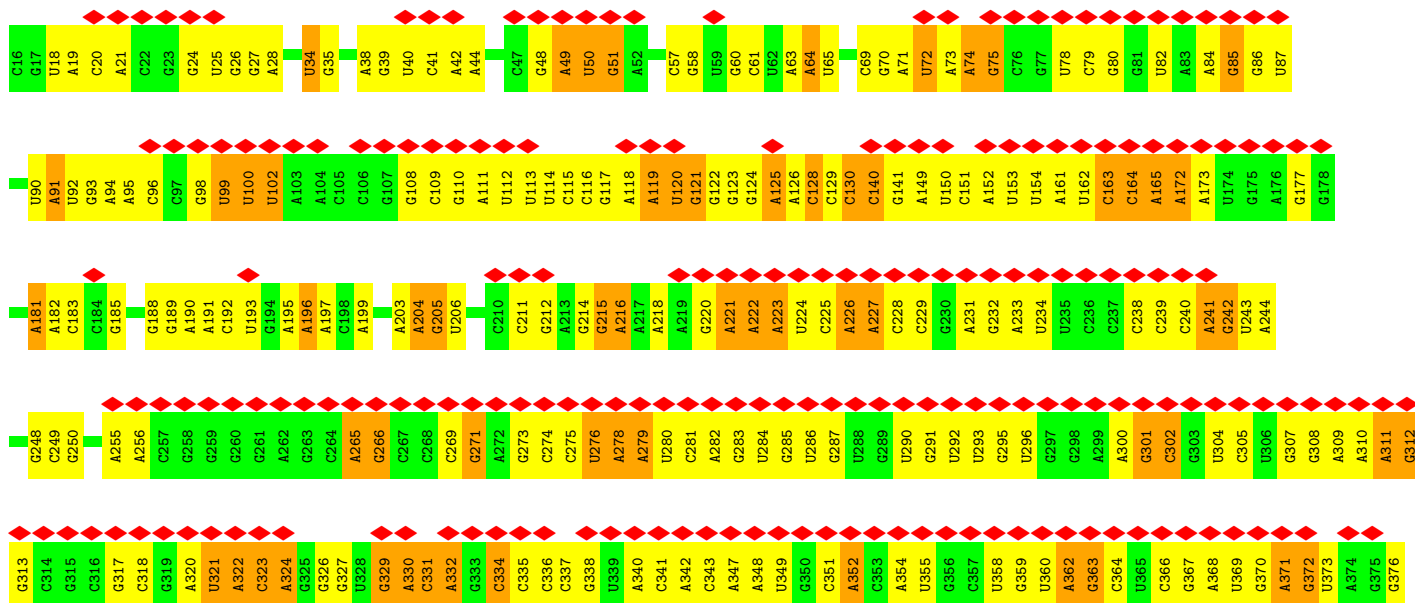
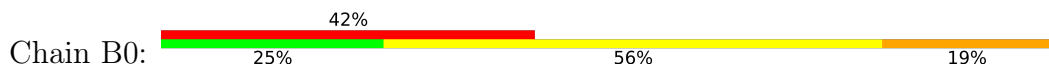
• Molecule 20: 30S ribosomal subunit protein S19

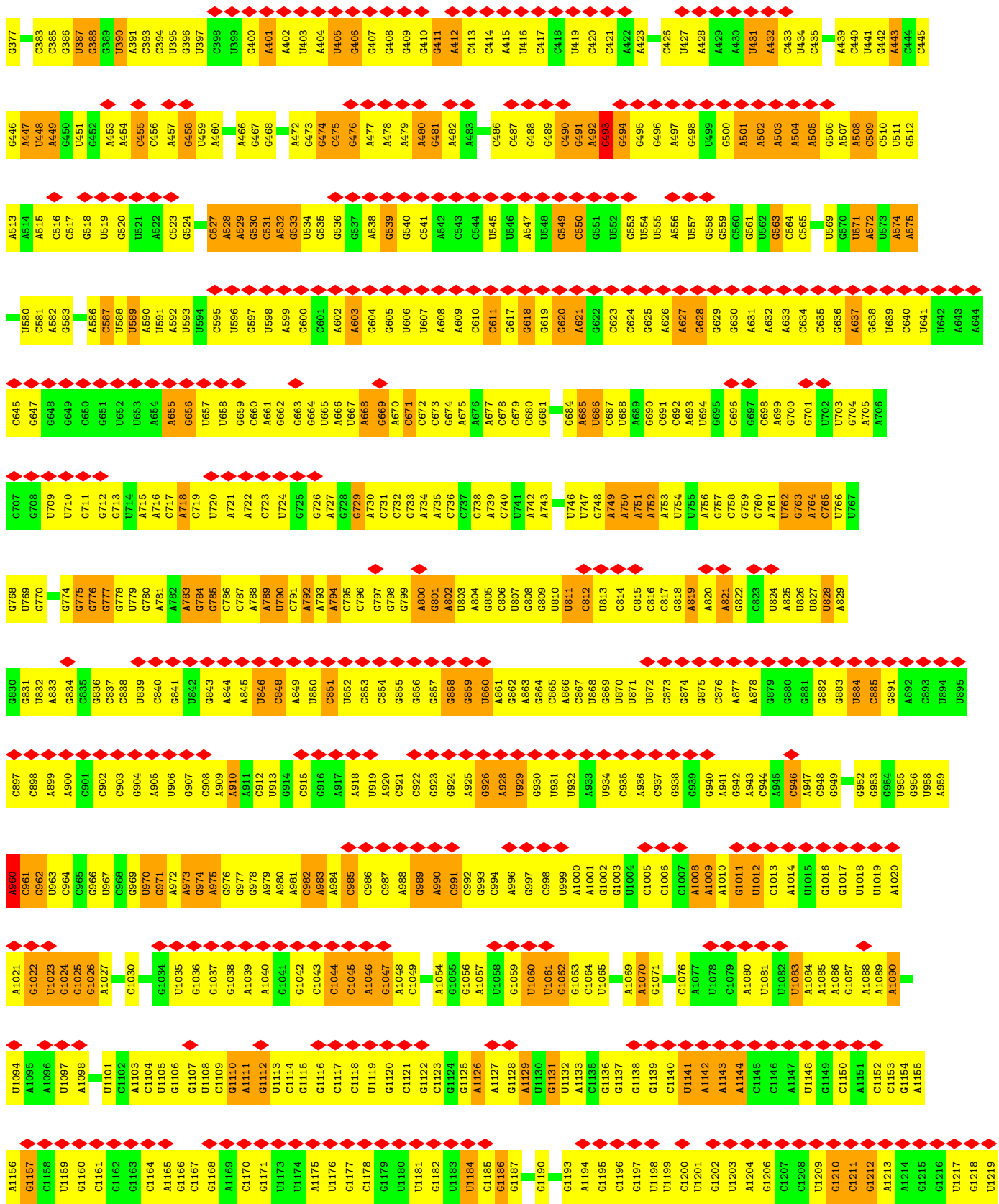


• Molecule 21: 30S ribosomal subunit protein S20

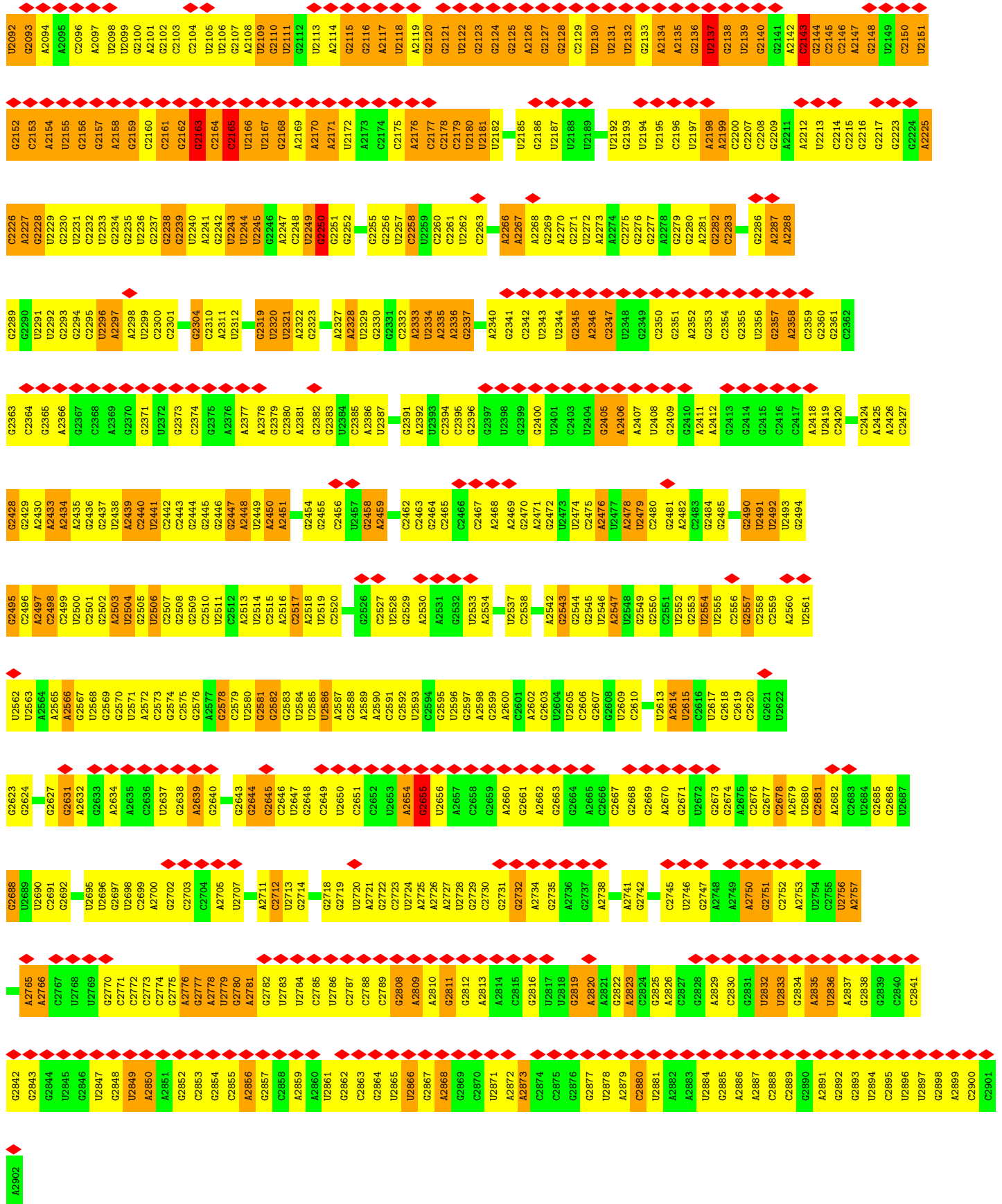


• Molecule 22: 23S ribosomal RNA

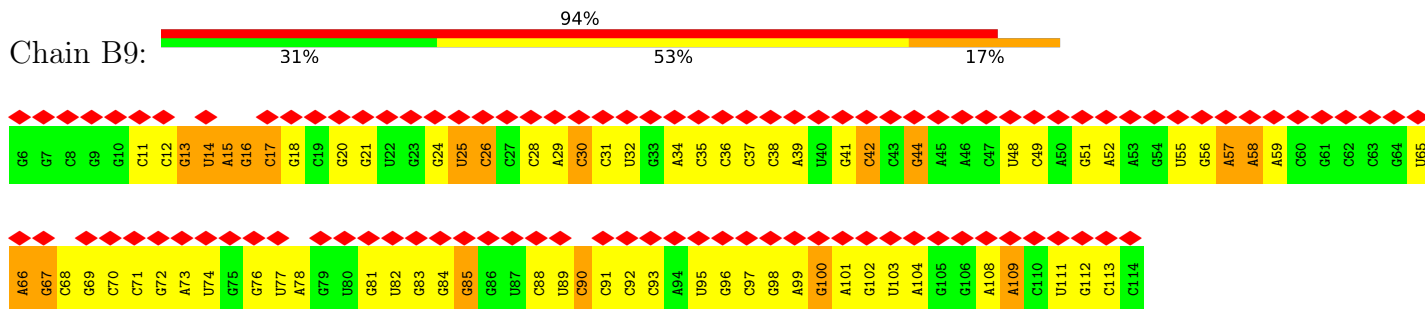




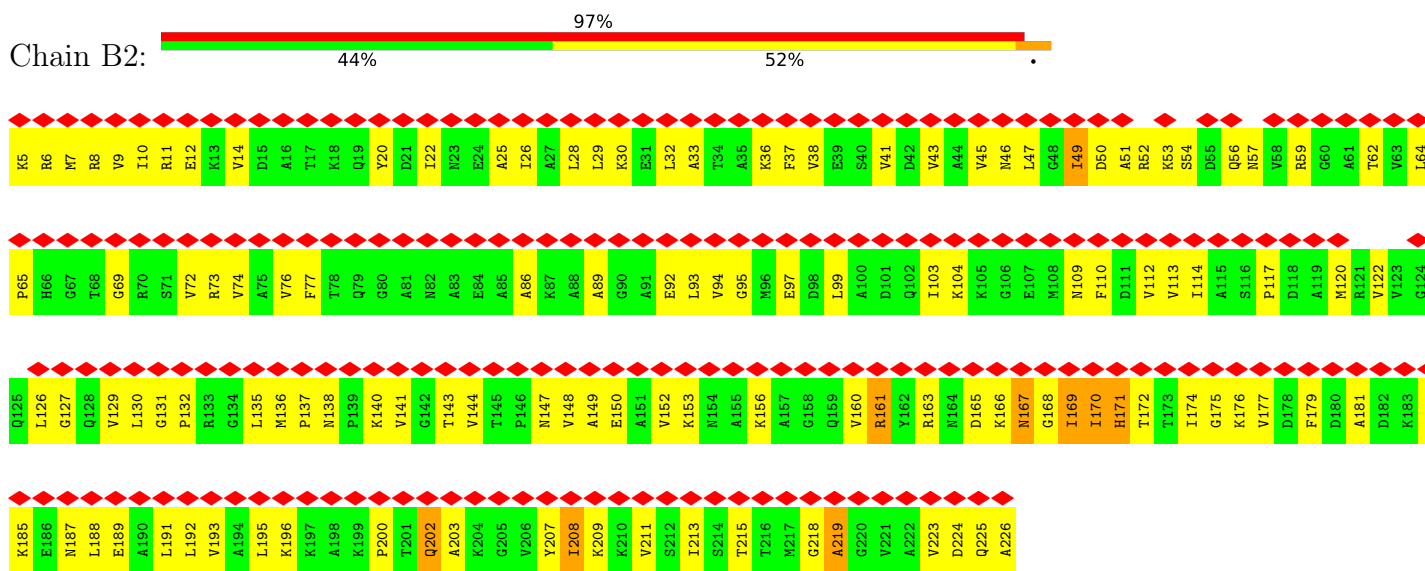
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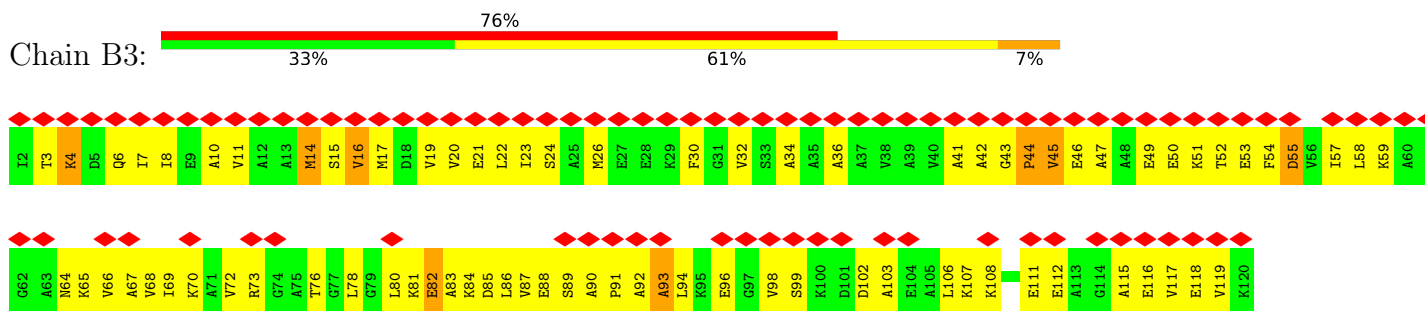
• Molecule 23: 5S ribosomal RNA



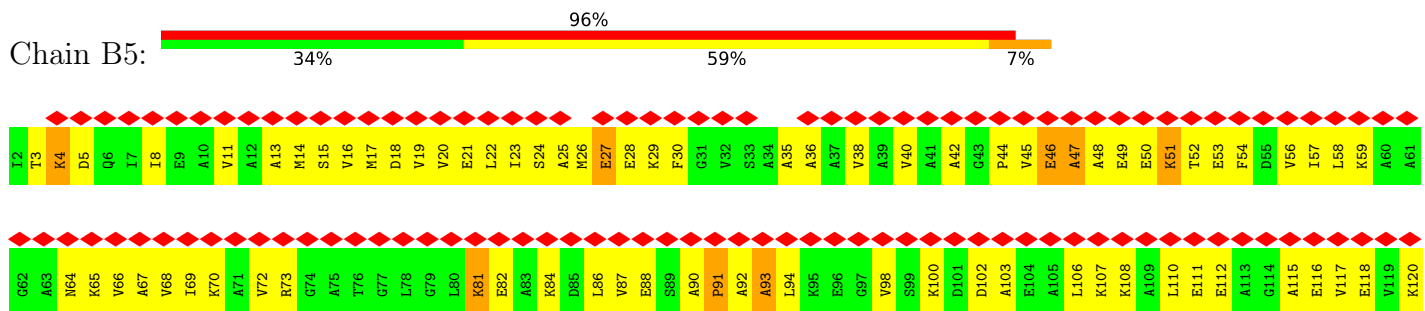
• Molecule 24: 50S ribosomal protein L1



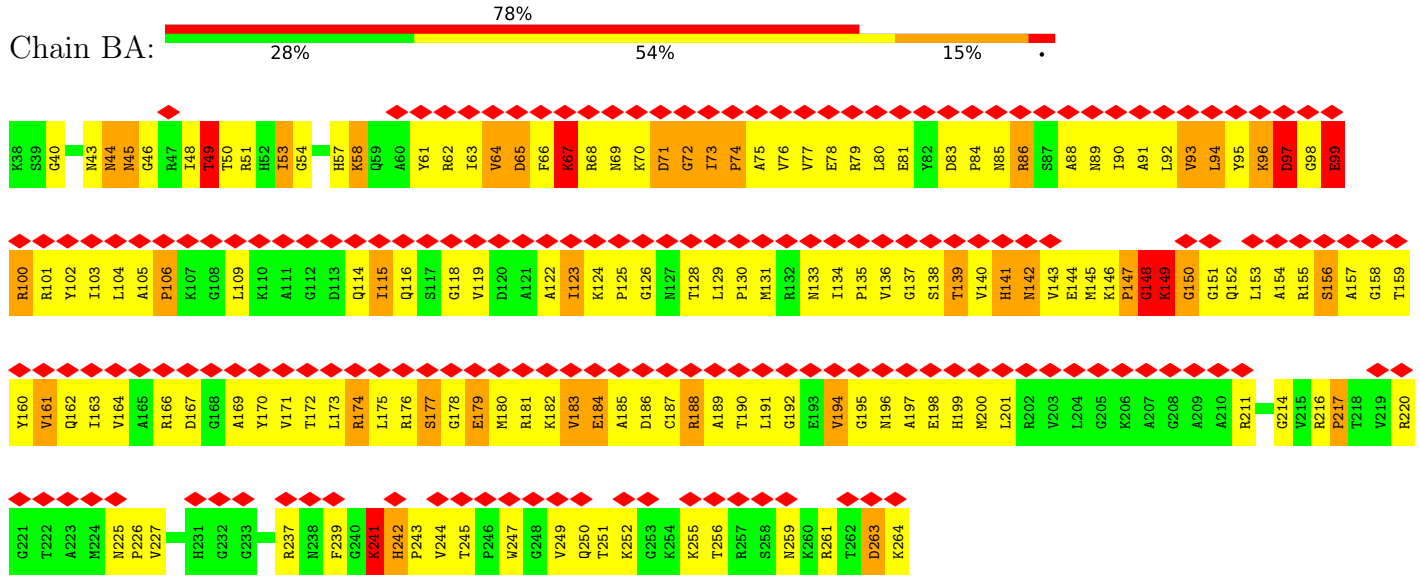
• Molecule 25: 50S ribosomal protein L7/L12



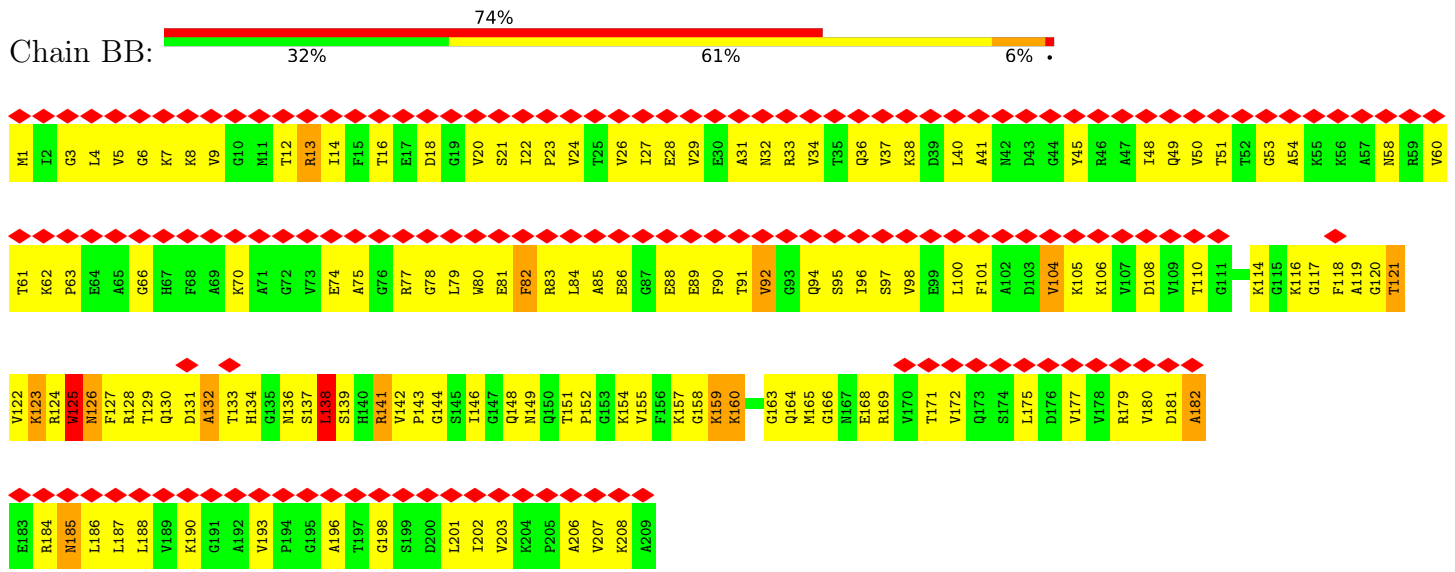
• Molecule 25: 50S ribosomal protein L7/L12



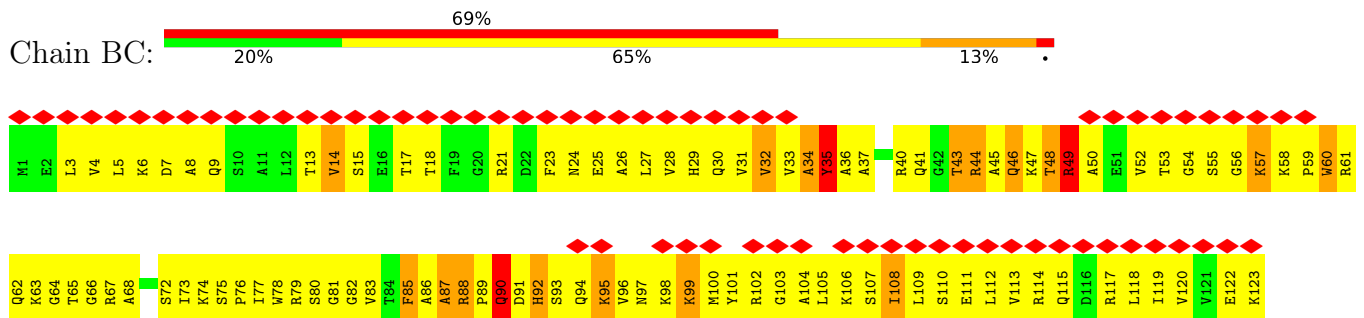
• Molecule 26: 50S ribosomal protein L2

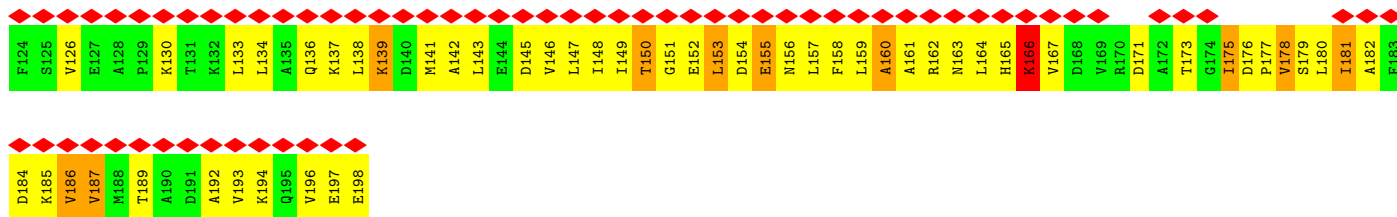


• Molecule 27: 50S ribosomal protein L3

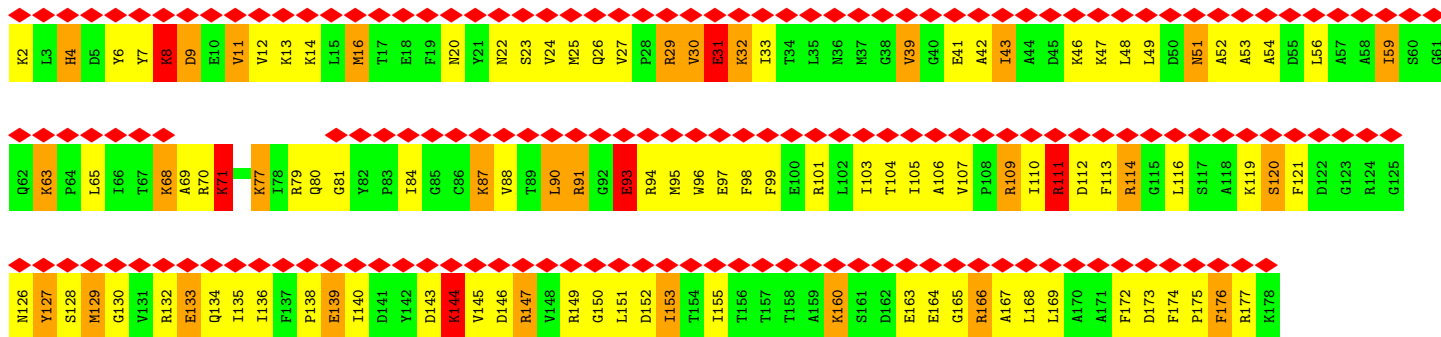


• Molecule 28: 50S ribosomal protein L4

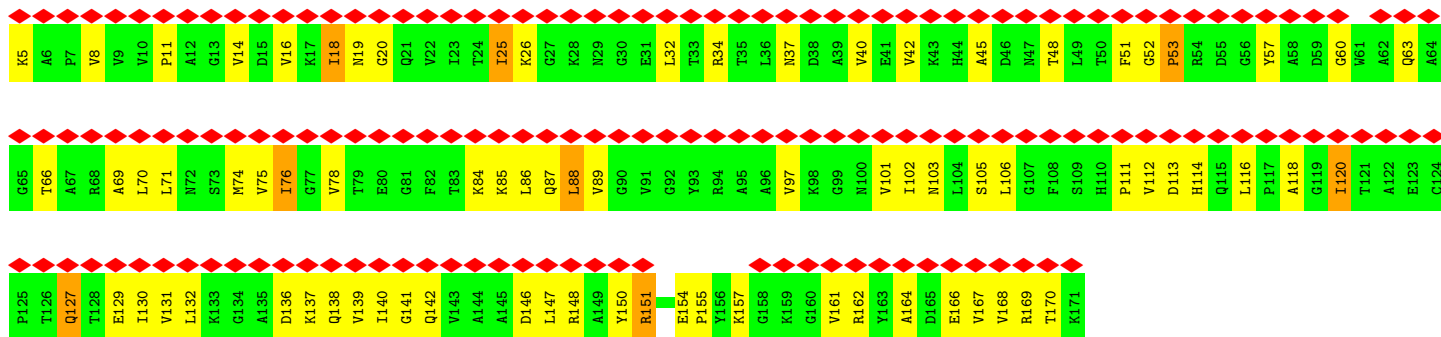




• Molecule 29: 50S ribosomal protein L5



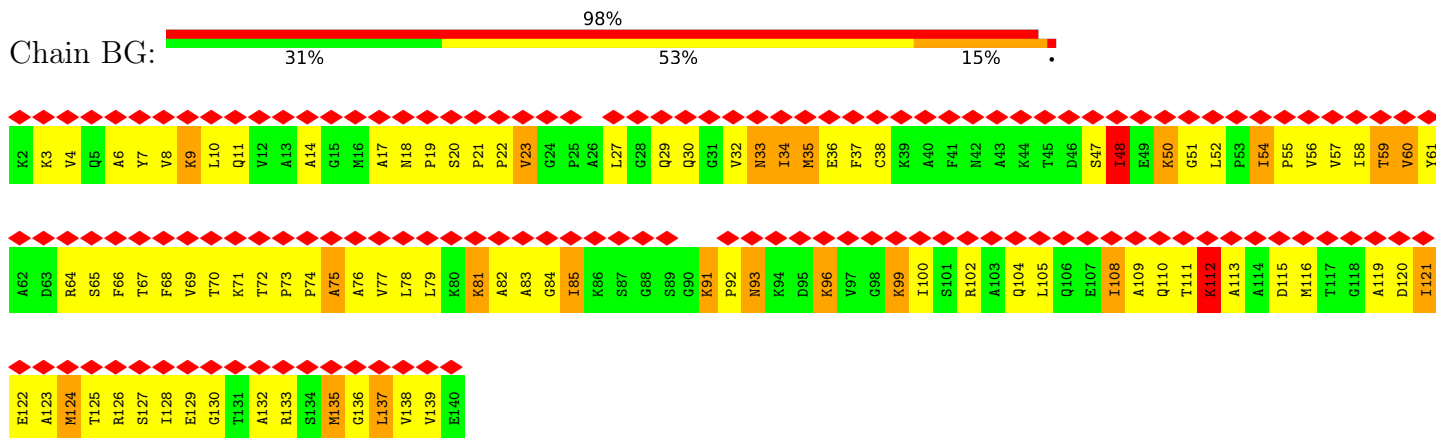
• Molecule 30: 50S ribosomal protein L6



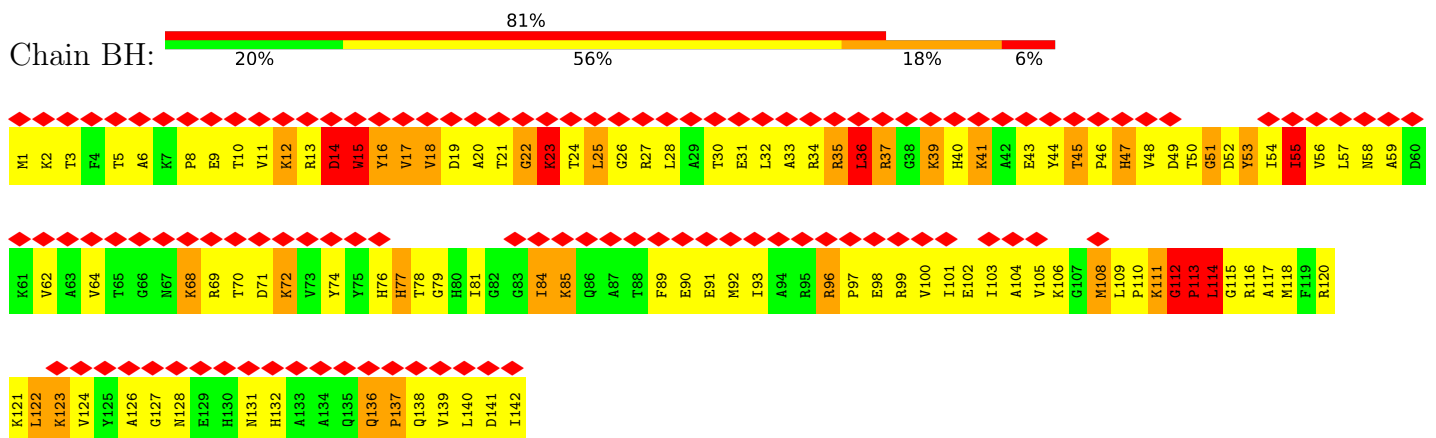
• Molecule 31: 50S ribosomal protein L9



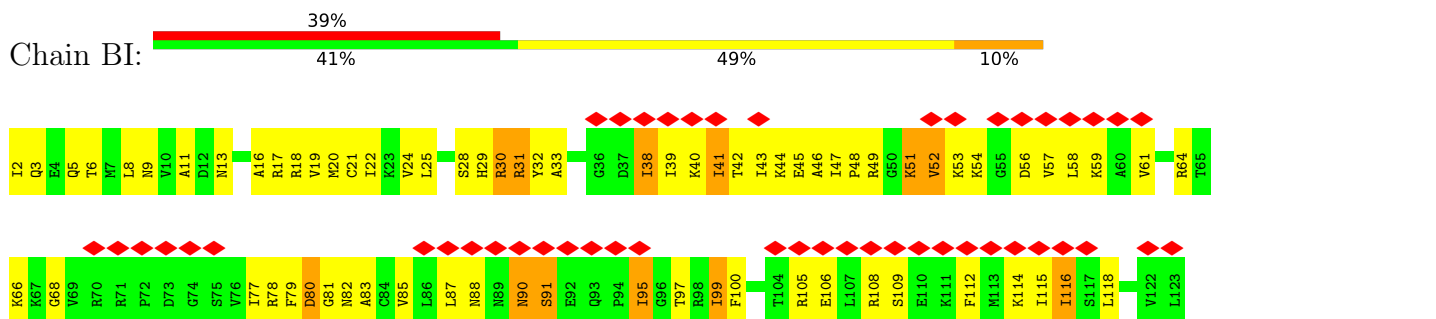
• Molecule 32: 50S ribosomal protein L11



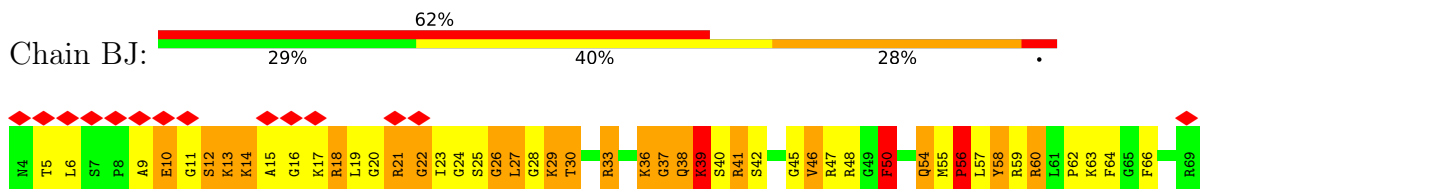
• Molecule 33: 50S ribosomal protein L13

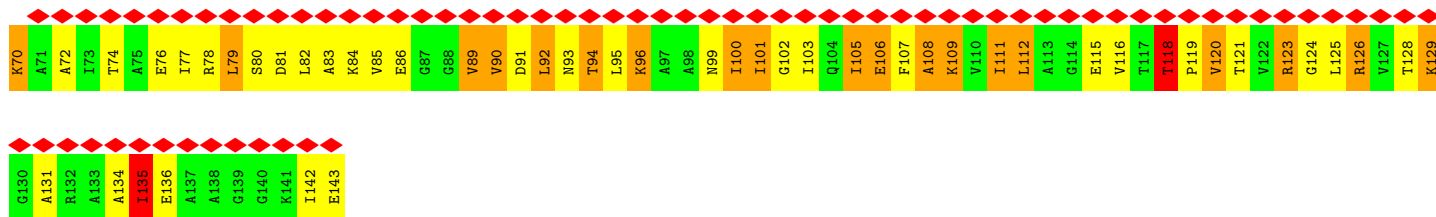


• Molecule 34: 50S ribosomal protein L14

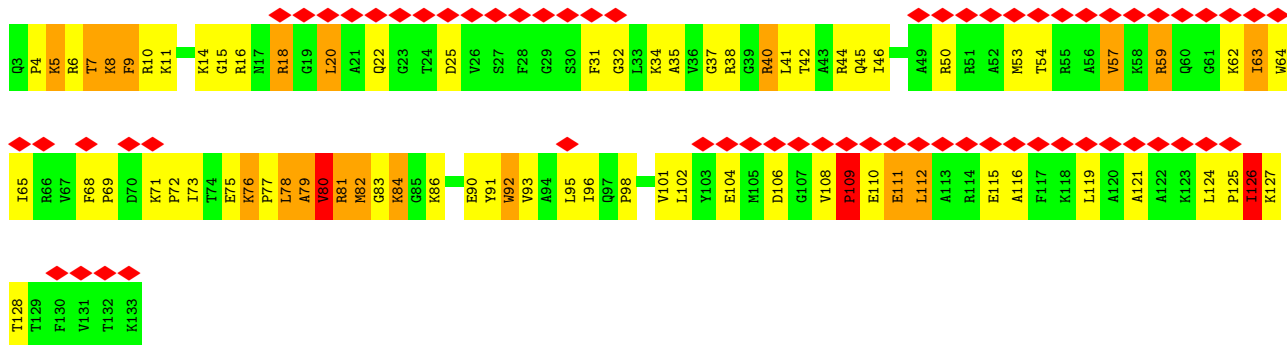
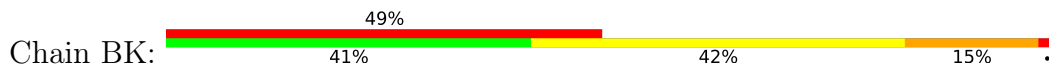


• Molecule 35: 50S ribosomal protein L15

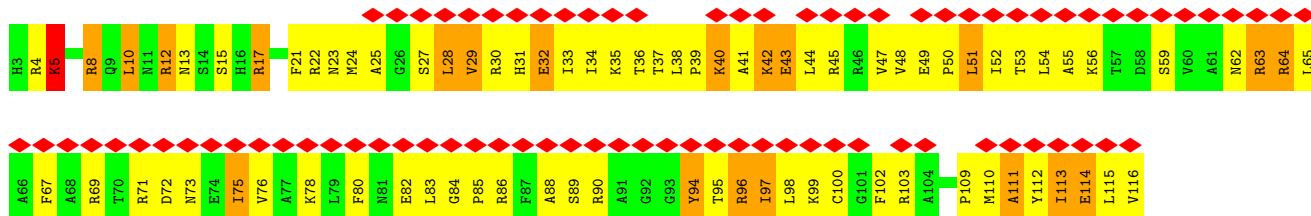




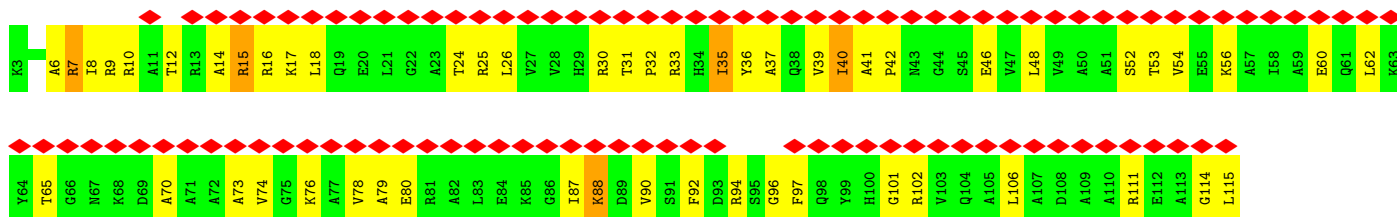
• Molecule 36: 50S ribosomal protein L16



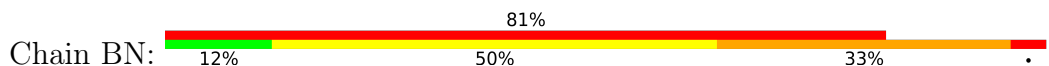
• Molecule 37: 50S ribosomal protein L17

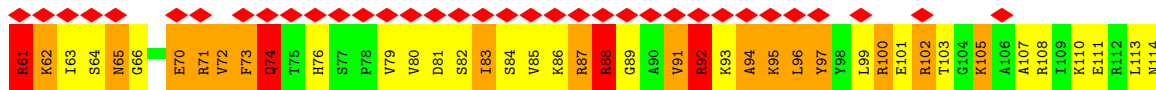
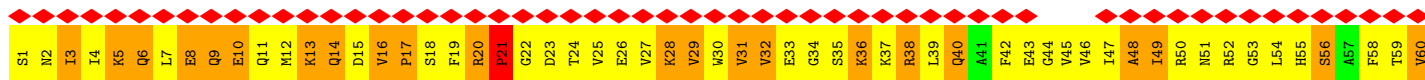


• Molecule 38: 50S ribosomal protein L18

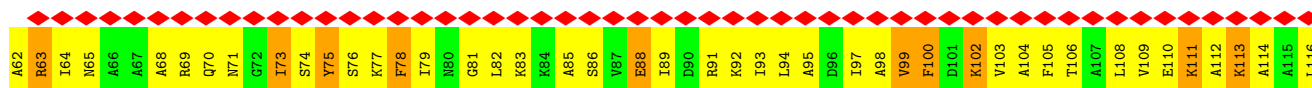
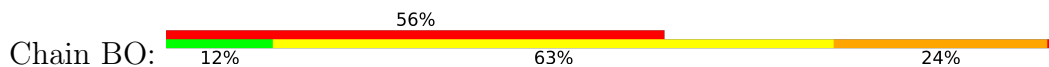


• Molecule 39: 50S ribosomal protein L19

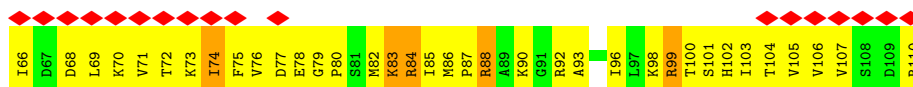




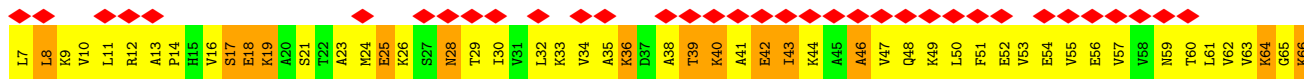
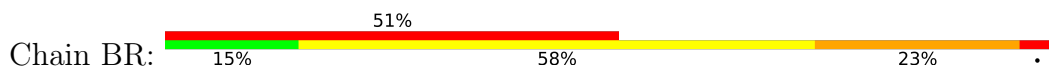
• Molecule 40: 50S ribosomal protein L20



• Molecule 41: 50S ribosomal protein L22



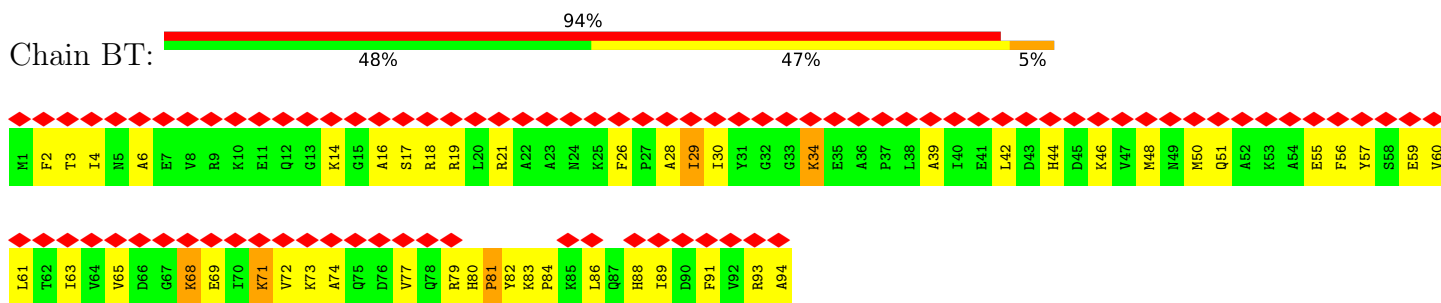
• Molecule 42: 50S ribosomal protein L23



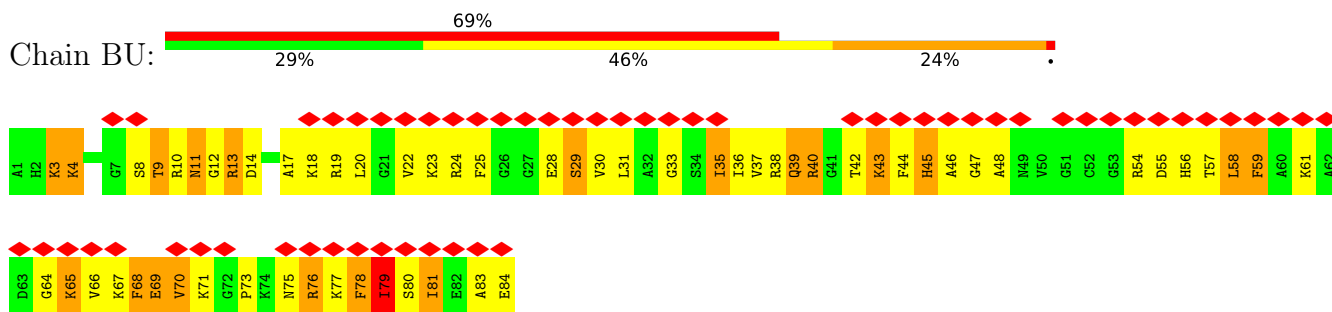
• Molecule 43: 50S ribosomal protein L24



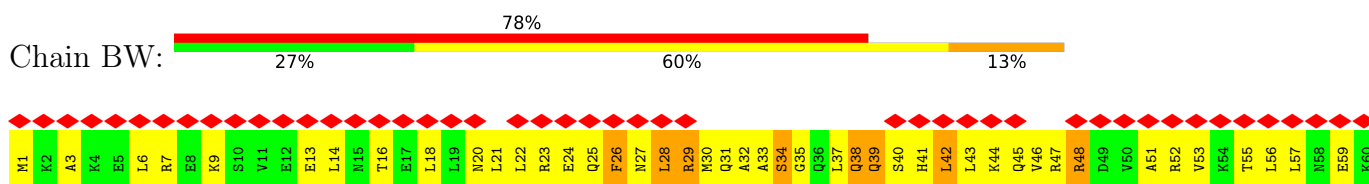
• Molecule 44: 50S ribosomal protein L25



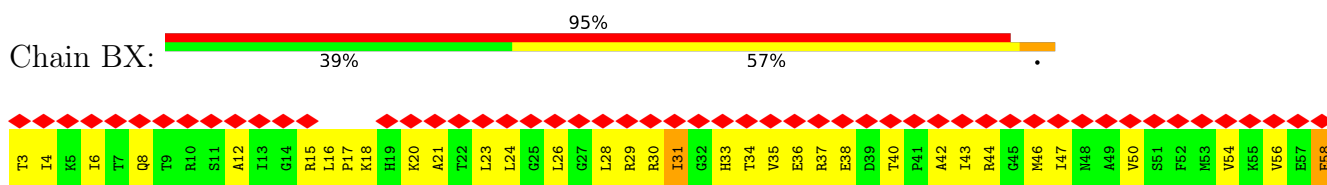
• Molecule 45: 50S ribosomal protein L27



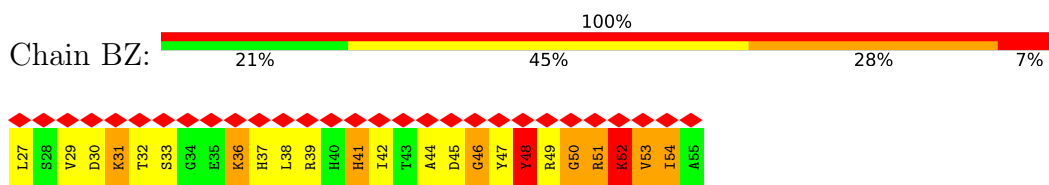
• Molecule 46: 50S ribosomal protein L29



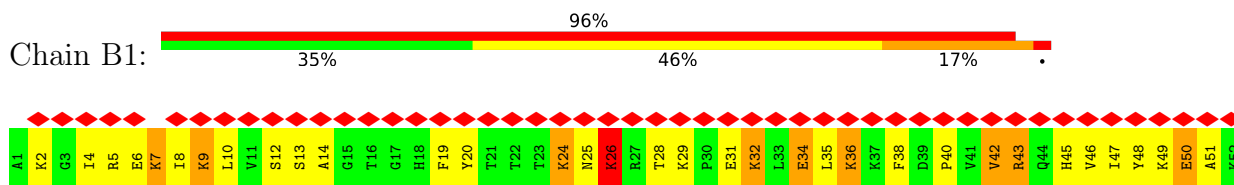
• Molecule 47: 50S ribosomal protein L30



• Molecule 48: 50S ribosomal protein L32



• Molecule 49: 50S ribosomal protein L33



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	53325	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	CTF correction of 3D-maps by Wiener filtration	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	11	Depositor
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	4.3	Depositor
Magnification	39000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	454.815	Depositor
Minimum map value	-299.714	Depositor
Average map value	5.836	Depositor
Map value standard deviation	33.806	Depositor
Recommended contour level	46.1	Depositor
Map size (\AA)	341.22, 341.22, 341.22	wwPDB
Map dimensions	121, 121, 121	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing (\AA)	2.82, 2.82, 2.82	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	AA	0.67	96/35745 (0.3%)	0.93	170/55764 (0.3%)
2	AU	0.17	0/1814	0.65	0/2827
2	AV	0.17	0/1814	0.64	0/2827
2	AW	0.18	0/1814	0.63	0/2827
3	AB	0.25	0/1877	0.40	0/2523
4	AC	0.23	0/1652	0.42	0/2225
5	AD	0.22	0/1660	0.40	0/2220
6	AE	0.23	0/1106	0.42	0/1488
7	AF	0.24	0/802	0.45	0/1081
8	AG	0.23	0/1093	0.42	0/1467
9	AH	0.23	0/978	0.43	0/1311
10	AI	0.24	0/1026	0.44	0/1364
11	AJ	0.23	0/783	0.46	0/1058
12	AK	0.24	0/886	0.44	0/1195
13	AL	0.22	0/799	0.44	0/1070
14	AM	0.21	0/900	0.43	0/1201
15	AN	0.25	0/510	0.39	0/679
16	AO	0.23	0/705	0.42	0/942
17	AP	0.26	0/632	0.44	0/848
18	AQ	0.24	0/649	0.45	0/870
19	AR	0.25	0/585	0.39	0/782
20	AS	0.25	0/712	0.46	0/955
21	AT	0.24	0/655	0.38	0/866
22	B0	0.40	23/65882 (0.0%)	0.67	20/102783 (0.0%)
23	B9	0.20	0/2583	0.64	0/4028
24	B2	0.22	0/1665	0.44	0/2240
25	B3	0.22	0/842	0.43	0/1123
25	B5	0.22	0/844	0.46	0/1129
26	BA	0.72	4/1758 (0.2%)	0.65	2/2353 (0.1%)
27	BB	0.56	1/1582 (0.1%)	0.61	1/2122 (0.0%)
28	BC	0.25	0/1549	0.52	0/2082
29	BD	0.26	0/1438	0.46	0/1927
30	BE	0.23	0/1273	0.43	0/1725
31	BF	0.24	0/1120	0.43	0/1509

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
32	BG	0.25	0/1032	0.54	0/1388
33	BH	0.27	0/1152	0.62	1/1551 (0.1%)
34	BI	0.23	0/948	0.45	0/1269
35	BJ	0.25	0/1025	0.56	0/1363
36	BK	0.27	0/1055	0.48	0/1409
37	BL	0.26	0/920	0.61	0/1229
38	BM	0.22	0/873	0.40	0/1170
39	BN	0.25	0/929	0.51	0/1242
40	BO	1.30	6/949 (0.6%)	3.57	8/1261 (0.6%)
41	BQ	0.23	0/832	0.58	0/1113
42	BR	0.24	0/720	0.54	0/956
43	BS	0.25	0/769	0.42	0/1023
44	BT	0.25	0/766	0.41	0/1025
45	BU	0.27	0/642	0.50	0/848
46	BW	0.24	0/496	0.50	0/658
47	BX	0.23	0/439	0.45	0/587
48	BZ	0.24	0/238	0.45	0/316
49	B1	0.27	0/431	0.46	0/572
All	All	0.46	130/153949 (0.1%)	0.75	202/230391 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	1	3
22	B0	5	4
All	All	6	7

All (130) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B0	1996	C	N1-C2	33.93	1.74	1.40
22	B0	1579	A	N1-C2	27.63	1.59	1.34
22	B0	1421	G	N1-C2	25.25	1.57	1.37
1	AA	545	C	O3'-P	24.31	1.90	1.61
1	AA	536	C	N1-C6	24.27	1.51	1.37
22	B0	1579	A	C5-C6	23.23	1.61	1.41
1	AA	419	C	N1-C6	23.03	1.50	1.37
22	B0	1579	A	C2-N3	23.00	1.54	1.33
22	B0	1996	C	C2-N3	22.89	1.54	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	418	C	N1-C6	22.81	1.50	1.37
1	AA	545	C	N1-C6	22.56	1.50	1.37
26	BA	67	LYS	CA-CB	22.41	2.03	1.53
22	B0	1421	G	C6-N1	21.95	1.54	1.39
1	AA	424	G	O3'-P	21.39	1.86	1.61
22	B0	1579	A	C6-N1	20.44	1.49	1.35
22	B0	1996	C	C4-C5	20.35	1.59	1.43
1	AA	539	A	N3-C4	20.26	1.47	1.34
22	B0	1996	C	N3-C4	20.05	1.48	1.33
40	BO	100	PHE	CD1-CE1	19.78	1.78	1.39
40	BO	100	PHE	CD2-CE2	19.77	1.78	1.39
1	AA	422	C	N1-C6	19.57	1.48	1.37
22	B0	1996	C	C5-C6	19.46	1.50	1.34
27	BB	138	LEU	CA-CB	19.41	1.98	1.53
1	AA	422	C	C2-N3	17.01	1.49	1.35
22	B0	1996	C	N1-C6	16.98	1.47	1.37
40	BO	100	PHE	CE2-CZ	-16.63	1.05	1.37
40	BO	100	PHE	CE1-CZ	-16.61	1.05	1.37
22	B0	1579	A	N3-C4	16.60	1.44	1.34
22	B0	1421	G	C5-C6	16.53	1.58	1.42
22	B0	1579	A	C5-C4	15.46	1.49	1.38
22	B0	1421	G	C2-N3	14.95	1.44	1.32
1	AA	543	U	N1-C6	14.59	1.51	1.38
22	B0	1421	G	N3-C4	14.55	1.45	1.35
26	BA	149	LYS	N-CA	14.36	1.75	1.46
1	AA	421	U	N1-C6	14.16	1.50	1.38
1	AA	418	C	C2-N3	14.02	1.47	1.35
1	AA	417	G	N3-C4	13.90	1.45	1.35
1	AA	542	G	C5-C6	13.73	1.56	1.42
1	AA	420	U	N1-C6	13.70	1.50	1.38
1	AA	535	A	O3'-P	-13.68	1.44	1.61
1	AA	542	G	C8-N7	13.55	1.39	1.30
1	AA	423	G	C5-C6	13.55	1.55	1.42
1	AA	423	G	N3-C4	13.54	1.45	1.35
1	AA	545	C	C2-N3	13.38	1.46	1.35
1	AA	417	G	C5-C6	13.35	1.55	1.42
1	AA	536	C	C2-N3	13.25	1.46	1.35
1	AA	421	U	C4-C5	13.02	1.55	1.43
1	AA	537	G	N3-C4	13.02	1.44	1.35
1	AA	424	G	N3-C4	13.02	1.44	1.35
1	AA	537	G	C5-C6	13.01	1.55	1.42
1	AA	540	G	N3-C4	12.95	1.44	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	544	G	C5-C6	12.91	1.55	1.42
1	AA	419	C	C2-N3	12.88	1.46	1.35
1	AA	541	G	C5-C6	12.87	1.55	1.42
1	AA	544	G	C8-N7	12.86	1.38	1.30
1	AA	538	G	C5-C6	12.85	1.55	1.42
1	AA	538	G	C8-N7	12.80	1.38	1.30
1	AA	420	U	C4-C5	12.75	1.55	1.43
1	AA	538	G	N3-C4	12.72	1.44	1.35
1	AA	541	G	C8-N7	12.57	1.38	1.30
1	AA	540	G	C5-C6	12.57	1.54	1.42
1	AA	423	G	C8-N7	12.56	1.38	1.30
1	AA	544	G	N3-C4	12.51	1.44	1.35
1	AA	541	G	N3-C4	12.32	1.44	1.35
1	AA	424	G	C5-C6	12.27	1.54	1.42
1	AA	537	G	C8-N7	12.25	1.38	1.30
1	AA	417	G	C8-N7	12.19	1.38	1.30
1	AA	424	G	C8-N7	12.18	1.38	1.30
1	AA	542	G	N3-C4	11.70	1.43	1.35
1	AA	543	U	C4-C5	11.49	1.53	1.43
1	AA	540	G	C8-N7	11.30	1.37	1.30
1	AA	539	A	C5-C4	11.02	1.46	1.38
1	AA	539	A	C8-N7	10.51	1.39	1.31
40	BO	100	PHE	CG-CD1	10.19	1.54	1.38
1	AA	423	G	N1-C2	10.17	1.45	1.37
22	B0	1421	G	C5-C4	10.15	1.45	1.38
40	BO	100	PHE	CG-CD2	10.12	1.53	1.38
1	AA	544	G	N1-C2	10.05	1.45	1.37
1	AA	537	G	N1-C2	9.79	1.45	1.37
1	AA	541	G	N1-C2	9.79	1.45	1.37
1	AA	424	G	N1-C2	9.73	1.45	1.37
1	AA	540	G	N1-C2	9.51	1.45	1.37
1	AA	542	G	N1-C2	9.21	1.45	1.37
1	AA	538	G	N1-C2	9.17	1.45	1.37
1	AA	416	G	O3'-P	9.15	1.72	1.61
22	B0	2451	A	O3'-P	8.71	1.71	1.61
1	AA	423	G	C5-C4	8.39	1.44	1.38
1	AA	422	C	C4-N4	8.34	1.41	1.33
1	AA	417	G	N1-C2	8.33	1.44	1.37
1	AA	542	G	C5-C4	8.24	1.44	1.38
1	AA	540	G	C5-C4	8.14	1.44	1.38
1	AA	422	C	C4-C5	-8.00	1.36	1.43
1	AA	418	C	C4-N4	7.82	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	537	G	C5-C4	7.74	1.43	1.38
1	AA	545	C	C4-N4	7.72	1.40	1.33
1	AA	536	C	C4-C5	-7.64	1.36	1.43
1	AA	418	C	C4-C5	-7.61	1.36	1.43
1	AA	536	C	C4-N4	7.48	1.40	1.33
1	AA	419	C	C4-C5	-7.42	1.37	1.43
1	AA	419	C	C4-N4	7.42	1.40	1.33
1	AA	545	C	C4-C5	-7.26	1.37	1.43
1	AA	424	G	C5-C4	7.21	1.43	1.38
1	AA	417	G	C5-C4	7.20	1.43	1.38
1	AA	538	G	C5-C4	7.07	1.43	1.38
1	AA	541	G	C5-C4	7.03	1.43	1.38
1	AA	544	G	C5-C4	7.01	1.43	1.38
1	AA	536	C	N3-C4	-6.77	1.29	1.33
1	AA	545	C	N3-C4	-6.68	1.29	1.33
1	AA	419	C	N3-C4	-6.29	1.29	1.33
26	BA	67	LYS	CB-CG	6.26	1.69	1.52
1	AA	418	C	N3-C4	-6.21	1.29	1.33
1	AA	532	A	O3'-P	5.67	1.68	1.61
26	BA	148	GLY	C-N	5.64	1.47	1.34
1	AA	424	G	C2-N3	-5.60	1.28	1.32
1	AA	541	G	C2-N3	-5.57	1.28	1.32
22	B0	2091	C	O3'-P	5.56	1.67	1.61
1	AA	417	G	C6-N1	-5.56	1.35	1.39
1	AA	540	G	C6-N1	-5.47	1.35	1.39
1	AA	538	G	C2-N3	-5.44	1.28	1.32
1	AA	423	G	C6-N1	-5.42	1.35	1.39
1	AA	542	G	C2-N3	-5.38	1.28	1.32
1	AA	539	A	C6-N1	-5.37	1.31	1.35
1	AA	538	G	C6-N1	-5.36	1.35	1.39
22	B0	2674	G	O3'-P	5.36	1.67	1.61
22	B0	810	U	O3'-P	5.33	1.67	1.61
1	AA	537	G	C2-N3	-5.15	1.28	1.32
1	AA	542	G	C6-N1	-5.15	1.35	1.39
1	AA	360	G	O3'-P	-5.11	1.55	1.61
22	B0	1965	C	O3'-P	5.05	1.67	1.61
1	AA	540	G	C2-N3	-5.01	1.28	1.32

All (202) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BO	100	PHE	CZ-CE2-CD2	-69.61	36.57	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
40	BO	100	PHE	CD1-CE1-CZ	-69.56	36.62	120.10
40	BO	100	PHE	CE1-CZ-CE2	-53.35	23.98	120.00
40	BO	100	PHE	CG-CD1-CE1	-32.88	84.64	120.80
40	BO	100	PHE	CG-CD2-CE2	-32.87	84.64	120.80
1	AA	423	G	C2-N3-C4	23.45	123.62	111.90
1	AA	423	G	N3-C4-C5	-22.57	117.32	128.60
1	AA	542	G	C2-N3-C4	22.24	123.02	111.90
1	AA	544	G	C2-N3-C4	22.12	122.96	111.90
1	AA	541	G	C2-N3-C4	22.02	122.91	111.90
1	AA	417	G	C2-N3-C4	21.81	122.81	111.90
1	AA	537	G	C2-N3-C4	21.57	122.68	111.90
1	AA	538	G	C2-N3-C4	21.29	122.55	111.90
1	AA	540	G	C2-N3-C4	21.16	122.48	111.90
1	AA	424	G	C2-N3-C4	21.10	122.45	111.90
1	AA	417	G	N3-C4-C5	-20.91	118.14	128.60
1	AA	542	G	N3-C4-C5	-20.80	118.20	128.60
1	AA	540	G	N3-C4-C5	-20.48	118.36	128.60
1	AA	537	G	N3-C4-C5	-20.16	118.52	128.60
1	AA	544	G	N3-C4-C5	-19.84	118.68	128.60
1	AA	541	G	N3-C4-C5	-19.49	118.86	128.60
1	AA	538	G	N3-C4-C5	-19.35	118.92	128.60
1	AA	424	G	N3-C4-C5	-19.29	118.96	128.60
1	AA	423	G	N7-C8-N9	19.11	122.66	113.10
1	AA	423	G	C8-N9-C4	-19.10	98.76	106.40
40	BO	100	PHE	CD1-CG-CD2	-19.04	93.55	118.30
1	AA	540	G	C8-N9-C4	-18.41	99.04	106.40
1	AA	542	G	C8-N9-C4	-18.32	99.07	106.40
1	AA	540	G	N7-C8-N9	18.17	122.18	113.10
1	AA	537	G	C8-N9-C4	-18.09	99.16	106.40
1	AA	537	G	N7-C8-N9	17.69	121.95	113.10
40	BO	100	PHE	CB-CG-CD1	17.49	133.04	120.80
1	AA	542	G	N7-C8-N9	17.31	121.76	113.10
1	AA	541	G	C8-N9-C4	-17.31	99.47	106.40
40	BO	100	PHE	CB-CG-CD2	17.30	132.91	120.80
27	BB	138	LEU	CA-CB-CG	17.13	154.70	115.30
1	AA	417	G	C8-N9-C4	-16.76	99.69	106.40
1	AA	541	G	N7-C8-N9	16.67	121.44	113.10
1	AA	417	G	N7-C8-N9	16.67	121.43	113.10
1	AA	538	G	C8-N9-C4	-16.56	99.78	106.40
1	AA	424	G	N7-C8-N9	16.52	121.36	113.10
1	AA	544	G	N7-C8-N9	16.50	121.35	113.10
1	AA	539	A	N7-C8-N9	16.31	121.95	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	538	G	N7-C8-N9	16.24	121.22	113.10
1	AA	544	G	C8-N9-C4	-16.07	99.97	106.40
1	AA	424	G	C8-N9-C4	-15.92	100.03	106.40
1	AA	539	A	C8-N9-C4	-15.77	99.49	105.80
1	AA	540	G	C5-N7-C8	-15.55	96.53	104.30
1	AA	424	G	C5-N7-C8	-15.54	96.53	104.30
1	AA	544	G	C5-N7-C8	-15.35	96.62	104.30
1	AA	423	G	C5-N7-C8	-15.25	96.67	104.30
1	AA	417	G	C5-N7-C8	-15.22	96.69	104.30
1	AA	538	G	C5-N7-C8	-15.19	96.70	104.30
1	AA	537	G	C5-N7-C8	-15.15	96.72	104.30
1	AA	541	G	C5-N7-C8	-15.05	96.78	104.30
1	AA	542	G	C5-N7-C8	-14.75	96.93	104.30
1	AA	535	A	P-O3'-C3'	14.39	136.97	119.70
1	AA	423	G	N3-C4-N9	14.05	134.43	126.00
1	AA	545	C	O3'-P-O5'	-13.88	77.62	104.00
1	AA	539	A	C5-N7-C8	-13.37	97.21	103.90
1	AA	416	G	O3'-P-O5'	12.98	128.66	104.00
22	B0	1593	G	N9-C1'-C2'	12.71	130.52	114.00
1	AA	539	A	N3-C4-C5	-12.59	117.98	126.80
1	AA	416	G	P-O3'-C3'	-12.46	104.75	119.70
1	AA	417	G	N3-C4-N9	12.37	133.42	126.00
1	AA	424	G	O3'-P-O5'	-12.33	80.58	104.00
22	B0	1653	G	N9-C1'-C2'	11.52	128.97	114.00
1	AA	544	G	N3-C4-N9	11.32	132.79	126.00
1	AA	537	G	N3-C4-N9	11.12	132.68	126.00
1	AA	540	G	N3-C4-N9	10.91	132.55	126.00
1	AA	542	G	N3-C4-N9	10.90	132.54	126.00
1	AA	424	G	N3-C4-N9	10.88	132.53	126.00
1	AA	420	U	N1-C2-N3	10.77	121.36	114.90
22	B0	1579	A	N1-C2-N3	-10.62	123.99	129.30
1	AA	538	G	N3-C4-N9	10.41	132.25	126.00
1	AA	421	U	N1-C2-N3	10.18	121.01	114.90
1	AA	541	G	N3-C4-N9	9.98	131.99	126.00
1	AA	422	C	C4-C5-C6	9.89	122.35	117.40
1	AA	536	C	C6-N1-C2	-9.82	116.37	120.30
1	AA	424	G	OP2-P-O3'	9.80	126.76	105.20
22	B0	2143	C	N1-C1'-C2'	9.74	126.66	114.00
1	AA	539	A	C2-N3-C4	9.71	115.45	110.60
26	BA	67	LYS	CA-CB-CG	9.66	134.65	113.40
1	AA	542	G	N9-C4-C5	9.59	109.24	105.40
22	B0	2655	G	N9-C1'-C2'	9.59	126.46	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	541	G	N9-C4-C5	9.34	109.14	105.40
22	B0	2250	G	N9-C1'-C2'	8.96	125.64	114.00
1	AA	421	U	N3-C2-O2	-8.86	116.00	122.20
1	AA	538	G	N9-C4-C5	8.56	108.82	105.40
1	AA	537	G	N9-C4-C5	8.49	108.80	105.40
1	AA	543	U	N1-C2-N3	8.45	119.97	114.90
1	AA	418	C	C6-N1-C2	-8.42	116.93	120.30
1	AA	545	C	OP2-P-O3'	8.36	123.58	105.20
1	AA	417	G	C5-C6-N1	8.28	115.64	111.50
26	BA	148	GLY	C-N-CA	8.14	142.04	121.70
1	AA	424	G	C5-C6-O6	-8.10	123.74	128.60
1	AA	543	U	C5-C4-O4	-8.08	121.05	125.90
22	B0	1653	G	O4'-C1'-N9	8.03	114.62	108.20
1	AA	420	U	N3-C2-O2	-8.02	116.59	122.20
22	B0	1593	G	O4'-C1'-N9	7.94	114.55	108.20
1	AA	544	G	N9-C4-C5	7.79	108.52	105.40
1	AA	419	C	C6-N1-C2	-7.74	117.20	120.30
1	AA	423	G	C5-C6-N1	7.71	115.36	111.50
1	AA	423	G	C5-C6-O6	-7.71	123.98	128.60
1	AA	424	G	N9-C4-C5	7.67	108.47	105.40
1	AA	539	A	N3-C4-N9	7.64	133.51	127.40
22	B0	2163	G	N9-C1'-C2'	7.60	123.88	114.00
1	AA	424	G	P-O3'-C3'	-7.59	110.59	119.70
1	AA	417	G	N9-C4-C5	7.58	108.43	105.40
1	AA	540	G	N9-C4-C5	7.50	108.40	105.40
1	AA	545	C	C6-N1-C2	-7.43	117.33	120.30
1	AA	544	G	C5-C6-O6	-7.39	124.17	128.60
1	AA	423	G	OP1-P-OP2	-7.36	108.56	119.60
22	B0	1996	C	N1-C2-N3	-7.29	114.09	119.20
1	AA	545	C	C4-C5-C6	7.29	121.04	117.40
1	AA	538	G	C5-C6-N1	7.28	115.14	111.50
1	AA	543	U	N3-C2-O2	-7.26	117.12	122.20
1	AA	537	G	C5-C6-N1	7.22	115.11	111.50
1	AA	542	G	C5-C6-N1	7.17	115.08	111.50
1	AA	423	G	N9-C4-C5	7.14	108.26	105.40
1	AA	544	G	C5-C6-N1	7.13	115.07	111.50
1	AA	423	G	C4-C5-N7	7.12	113.65	110.80
1	AA	545	C	OP1-P-OP2	-7.09	108.97	119.60
22	B0	493	G	N9-C1'-C2'	7.07	123.19	114.00
1	AA	424	G	C4-C5-N7	7.02	113.61	110.80
1	AA	536	C	C4-C5-C6	7.01	120.91	117.40
1	AA	428	G	N9-C1'-C2'	7.00	123.10	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	540	G	C4-C5-N7	6.98	113.59	110.80
1	AA	424	G	C5-C6-N1	6.97	114.99	111.50
1	AA	419	C	C4-C5-C6	6.90	120.85	117.40
1	AA	424	G	OP1-P-OP2	-6.89	109.27	119.60
1	AA	417	G	C5-C6-O6	-6.78	124.53	128.60
1	AA	417	G	OP1-P-OP2	-6.76	109.45	119.60
1	AA	417	G	C4-C5-N7	6.76	113.50	110.80
1	AA	539	A	N9-C4-C5	6.76	108.50	105.80
1	AA	541	G	C5-C6-N1	6.74	114.87	111.50
1	AA	418	C	C4-C5-C6	6.71	120.75	117.40
1	AA	540	G	C5-C6-O6	-6.68	124.59	128.60
22	B0	1421	G	C2-N3-C4	6.68	115.24	111.90
1	AA	540	G	C5-C6-N1	6.68	114.84	111.50
1	AA	418	C	OP1-P-OP2	-6.67	109.60	119.60
1	AA	540	G	OP1-P-OP2	-6.52	109.81	119.60
1	AA	544	G	OP1-P-OP2	-6.51	109.84	119.60
1	AA	544	G	C4-C5-N7	6.50	113.40	110.80
1	AA	541	G	C5-C6-O6	-6.48	124.71	128.60
1	AA	419	C	OP1-P-OP2	-6.44	109.94	119.60
22	B0	2143	C	O4'-C1'-N1	6.41	113.33	108.20
1	AA	422	C	OP1-P-OP2	-6.40	110.00	119.60
1	AA	538	G	C4-C5-N7	6.38	113.35	110.80
1	AA	543	U	OP1-P-OP2	-6.35	110.08	119.60
22	B0	1579	A	C2-N3-C4	6.28	113.74	110.60
1	AA	537	G	OP1-P-OP2	-6.27	110.19	119.60
1	AA	421	U	OP1-P-OP2	-6.25	110.22	119.60
1	AA	541	G	OP1-P-OP2	-6.24	110.24	119.60
22	B0	1421	G	N1-C2-N3	-6.16	120.20	123.90
1	AA	543	U	C5-C6-N1	-6.15	119.62	122.70
1	AA	420	U	OP1-P-OP2	-6.09	110.47	119.60
1	AA	538	G	C5-C6-O6	-6.07	124.96	128.60
1	AA	536	C	OP1-P-OP2	-6.06	110.51	119.60
1	AA	421	U	C5-C6-N1	-6.06	119.67	122.70
1	AA	541	G	N1-C2-N2	6.04	121.63	116.20
1	AA	540	G	C6-C5-N7	-6.03	126.78	130.40
22	B0	2655	G	O4'-C1'-N9	6.01	113.01	108.20
1	AA	537	G	C4-C5-N7	5.97	113.19	110.80
1	AA	539	A	OP1-P-OP2	-5.96	110.66	119.60
1	AA	542	G	C5-C6-O6	-5.94	125.04	128.60
1	AA	541	G	C8-N9-C1'	5.93	134.71	127.00
1	AA	418	C	C2-N3-C4	5.92	122.86	119.90
1	AA	541	G	C4-C5-N7	5.84	113.14	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	420	U	O4'-C1'-N1	5.84	112.87	108.20
1	AA	538	G	OP1-P-OP2	-5.81	110.88	119.60
1	AA	545	C	O4'-C1'-N1	5.78	112.83	108.20
1	AA	537	G	C5-C6-O6	-5.78	125.13	128.60
1	AA	545	C	C2-N3-C4	5.76	122.78	119.90
1	AA	419	C	C2-N3-C4	5.75	122.78	119.90
1	AA	538	G	C8-N9-C1'	5.75	134.47	127.00
1	AA	420	U	C5-C6-N1	-5.72	119.84	122.70
22	B0	2250	G	O4'-C1'-N9	5.72	112.77	108.20
1	AA	545	C	P-O3'-C3'	-5.63	112.94	119.70
1	AA	423	G	C6-C5-N7	-5.57	127.06	130.40
1	AA	542	G	OP1-P-OP2	-5.56	111.27	119.60
1	AA	416	G	OP1-P-O3'	-5.54	93.01	105.20
1	AA	421	U	C5-C4-O4	-5.53	122.58	125.90
1	AA	542	G	C4-C5-N7	5.49	113.00	110.80
1	AA	536	C	C2-N3-C4	5.46	122.63	119.90
1	AA	538	G	N1-C2-N2	5.40	121.06	116.20
1	AA	541	G	N1-C2-N3	-5.40	120.66	123.90
22	B0	960	A	C5'-C4'-C3'	5.40	124.64	116.00
22	B0	1494	A	N9-C1'-C2'	-5.40	106.06	112.00
1	AA	419	C	O4'-C1'-N1	5.37	112.50	108.20
22	B0	2165	C	O4'-C1'-N1	5.26	112.41	108.20
1	AA	417	G	O4'-C1'-N9	5.21	112.37	108.20
1	AA	420	U	C5-C4-O4	-5.21	122.78	125.90
1	AA	544	G	N1-C2-N3	-5.21	120.78	123.90
33	BH	112	GLY	C-N-CD	-5.21	109.15	120.60
1	AA	422	C	O4'-C1'-N1	5.18	112.34	108.20
1	AA	422	C	C6-N1-C2	-5.18	118.23	120.30
1	AA	537	G	N1-C2-N2	5.17	120.85	116.20
1	AA	542	G	C8-N9-C1'	5.11	133.64	127.00
1	AA	543	U	N3-C4-C5	5.03	117.62	114.60
1	AA	538	G	N1-C2-N3	-5.02	120.89	123.90
1	AA	703	G	OP1-P-O3'	5.00	116.21	105.20

All (6) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	428	G	C1'
22	B0	1593	G	C1'
22	B0	1653	G	C1'
22	B0	2143	C	C1'
22	B0	2250	G	C1'

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Mol	Chain	Res	Type	Atom
22	B0	2655	G	C1'

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	538	G	Sidechain
1	AA	540	G	Sidechain
1	AA	541	G	Sidechain
22	B0	1418	G	Sidechain
22	B0	1579	A	Sidechain
22	B0	2137	U	Sidechain
22	B0	2165	C	Sidechain

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	31924	0	16066	1600	0
2	AU	1622	0	821	102	0
2	AV	1622	0	821	75	0
2	AW	1622	0	821	80	0
3	AB	1847	0	1855	120	0
4	AC	1625	0	1699	164	0
5	AD	1638	0	1702	185	0
6	AE	1093	0	1132	117	0
7	AF	784	0	776	100	0
8	AG	1079	0	1108	91	0
9	AH	968	0	1021	96	0
10	AI	1014	0	1064	153	0
11	AJ	773	0	812	71	0
12	AK	870	0	878	98	0
13	AL	787	0	825	81	0
14	AM	892	0	954	65	0
15	AN	500	0	526	51	0
16	AO	697	0	716	72	0
17	AP	622	0	637	77	0
18	AQ	640	0	678	49	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
19	AR	576	0	599	55	0
20	AS	695	0	725	118	0
21	AT	649	0	697	67	0
22	B0	58824	0	29589	3943	0
23	B9	2310	0	1173	79	0
24	B2	1652	0	1730	181	0
25	B3	845	0	876	139	0
25	B5	845	0	878	133	0
26	BA	1733	0	1764	643	0
27	BB	1565	0	1612	264	0
28	BC	1531	0	1593	499	0
29	BD	1415	0	1451	166	0
30	BE	1253	0	1289	87	0
31	BF	1111	0	1146	48	0
32	BG	1019	0	1076	134	0
33	BH	1129	0	1162	273	0
34	BI	939	0	1011	95	0
35	BJ	1017	0	1086	283	0
36	BK	1036	0	1109	154	0
37	BL	908	0	946	174	0
38	BM	864	0	902	60	0
39	BN	917	0	965	236	0
40	BO	937	0	1008	249	0
41	BQ	825	0	886	220	0
42	BR	717	0	770	187	0
43	BS	762	0	809	72	0
44	BT	753	0	780	45	0
45	BU	634	0	656	172	0
46	BW	495	0	530	76	0
47	BX	435	0	470	41	0
48	BZ	234	0	235	43	0
49	B1	424	0	461	68	0
All	All	141668	0	94896	10859	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 46.

All (10859) 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)
22:B0:1579:A:C2	26:BA:67:LYS:CA	1.76	1.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1996:C:C2	27:BB:138:LEU:CA	1.77	1.62
22:B0:1579:A:C4	26:BA:67:LYS:CA	1.86	1.52
22:B0:1579:A:C4	26:BA:67:LYS:HA	1.38	1.52
22:B0:1421:G:N1	26:BA:149:LYS:CA	1.71	1.51
26:BA:149:LYS:CA	26:BA:149:LYS:N	1.75	1.50
22:B0:1579:A:N3	26:BA:67:LYS:HA	1.27	1.47
1:AA:418:C:C6	1:AA:541:G:OP1	1.73	1.39
27:BB:138:LEU:CA	27:BB:138:LEU:CB	1.98	1.38
22:B0:1421:G:C6	26:BA:149:LYS:CA	2.04	1.37
22:B0:1421:G:C6	26:BA:149:LYS:HA	1.59	1.36
1:AA:545:C:H4'	1:AA:549:C:C4'	1.56	1.35
22:B0:1579:A:N3	26:BA:67:LYS:CA	1.80	1.35
22:B0:1996:C:N3	27:BB:138:LEU:CA	1.86	1.35
26:BA:67:LYS:CA	26:BA:67:LYS:CB	2.03	1.35
22:B0:1996:C:N3	27:BB:138:LEU:HA	1.41	1.34
1:AA:424:G:N2	5:AD:39:GLN:OE1	1.61	1.31
1:AA:419:C:O3'	1:AA:540:G:N2	1.64	1.31
1:AA:418:C:O3'	1:AA:541:G:H8	1.08	1.30
22:B0:1579:A:C5	26:BA:67:LYS:CA	2.13	1.30
22:B0:1996:C:C4	27:BB:138:LEU:CA	2.15	1.27
22:B0:1421:G:C2	26:BA:149:LYS:CA	2.17	1.26
22:B0:1579:A:C6	26:BA:67:LYS:CA	2.19	1.25
22:B0:1579:A:N1	26:BA:67:LYS:CA	2.00	1.25
1:AA:424:G:N2	5:AD:39:GLN:CD	1.89	1.25
22:B0:1579:A:C2	26:BA:67:LYS:C	2.07	1.24
1:AA:418:C:O3'	1:AA:541:G:C8	1.89	1.24
1:AA:545:C:C4'	1:AA:549:C:H4'	1.68	1.23
22:B0:1996:C:N1	27:BB:138:LEU:CA	1.99	1.23
22:B0:1579:A:C5	26:BA:67:LYS:N	2.07	1.22
1:AA:419:C:H5''	1:AA:540:G:C2	1.77	1.20
22:B0:2894:U:H5'	33:BH:6:ALA:HB3	1.27	1.16
1:AA:244:U:H1'	1:AA:894:G:H1'	1.25	1.15
25:B3:93:ALA:HA	25:B5:8:ILE:HD11	1.28	1.15
22:B0:494:G:H1'	41:BQ:6:LYS:HB2	1.21	1.15
28:BC:34:ALA:HB3	35:BJ:19:LEU:H	1.11	1.15
26:BA:64:VAL:HG12	26:BA:65:ASP:H	1.08	1.14
28:BC:92:HIS:H	35:BJ:29:LYS:HG3	1.01	1.14
22:B0:2121:G:H4'	22:B0:2122:U:H5'	1.24	1.14
22:B0:1996:C:C6	27:BB:138:LEU:CA	2.30	1.13
1:AA:1286:U:H3'	1:AA:1287:A:H5''	1.15	1.13
1:AA:419:C:H1'	5:AD:39:GLN:HB2	1.21	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1385:G:H21	10:AI:128:LYS:HG3	1.15	1.12
22:B0:2124:G:H2'	22:B0:2125:G:H5''	1.31	1.12
22:B0:1996:C:C5	27:BB:138:LEU:N	2.19	1.11
2:AW:76:A:H1'	22:B0:2430:A:H5''	1.26	1.10
22:B0:480:A:H3'	22:B0:481:G:H5''	1.14	1.10
22:B0:2677:G:H4'	27:BB:160:LYS:HB2	1.32	1.10
22:B0:958:U:H3'	36:BK:80:VAL:HG23	1.25	1.10
26:BA:67:LYS:HD3	26:BA:186:ASP:HB3	1.30	1.10
28:BC:35:TYR:H	35:BJ:18:ARG:HB3	1.13	1.10
22:B0:2162:G:H3'	22:B0:2163:G:C5'	1.81	1.10
22:B0:493:G:H8	41:BQ:10:ALA:N	1.49	1.10
26:BA:140:VAL:HG23	26:BA:161:VAL:HG13	1.34	1.10
22:B0:800:A:H3'	28:BC:57:LYS:HB3	1.26	1.09
22:B0:492:A:H3'	41:BQ:9:HIS:HA	1.33	1.09
22:B0:658:U:H2'	28:BC:98:LYS:HG2	1.27	1.09
1:AA:421:U:O4	5:AD:43:ARG:HB2	1.51	1.08
22:B0:588:U:H3	28:BC:74:LYS:HG3	1.17	1.08
29:BD:110:ILE:HG22	29:BD:111:ARG:HE	0.98	1.08
22:B0:1496:A:N3	26:BA:142:ASN:HB2	1.68	1.07
22:B0:1965:C:H3'	22:B0:1966:A:H5''	1.35	1.07
22:B0:776:G:H4'	22:B0:777:G:H5''	1.29	1.07
6:AE:155:LYS:HE2	9:AH:67:GLY:HA3	1.31	1.07
26:BA:175:LEU:HD12	26:BA:176:ARG:H	1.19	1.07
37:BL:64:ARG:HH22	37:BL:67:PHE:HB3	1.16	1.07
33:BH:10:THR:HA	33:BH:13:ARG:HE	1.16	1.06
42:BR:10:VAL:HG11	42:BR:38:ALA:HB2	1.38	1.06
2:AU:58:A:H4'	2:AU:59:U:OP1	1.55	1.06
22:B0:958:U:H4'	36:BK:76:LYS:HB3	1.11	1.05
22:B0:992:C:H5''	40:BO:47:ARG:HB3	1.32	1.05
22:B0:1008:A:H4'	22:B0:1009:A:H5'	1.32	1.05
22:B0:2678:C:H5''	27:BB:124:ARG:HB3	1.36	1.05
27:BB:130:GLN:HB3	27:BB:134:HIS:HB3	1.37	1.05
1:AA:173:U:H5'	1:AA:197:A:H1'	1.36	1.05
22:B0:1578:U:H6	26:BA:101:ARG:HD3	1.15	1.05
45:BU:45:HIS:HB3	45:BU:79:ILE:HG21	1.38	1.05
4:AC:184:ASN:HD21	4:AC:199:VAL:HB	1.17	1.04
43:BS:25:LYS:HB3	43:BS:34:ILE:HG23	1.39	1.04
1:AA:1317:C:H41	20:AS:6:LYS:HA	1.18	1.04
22:B0:1996:C:C5	27:BB:138:LEU:CA	2.39	1.04
2:AU:46:G:H4'	2:AU:47:U:OP1	1.57	1.04
1:AA:718:A:O4'	12:AK:117:HIS:HA	1.55	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:58:A:H4'	2:AV:59:U:OP1	1.55	1.03
22:B0:1996:C:C4	27:BB:138:LEU:N	2.26	1.03
22:B0:1583:G:H22	26:BA:75:ALA:HA	1.18	1.03
28:BC:153:LEU:HD13	28:BC:158:PHE:HB2	1.37	1.03
26:BA:163:ILE:HA	26:BA:173:LEU:HG	1.41	1.03
2:AW:46:G:H4'	2:AW:47:U:OP1	1.57	1.02
22:B0:1495:A:H3'	26:BA:190:THR:HA	1.37	1.02
39:BN:10:GLU:HG2	39:BN:11:GLN:H	1.23	1.02
1:AA:420:U:P	1:AA:540:G:H21	1.81	1.02
22:B0:2162:G:C3'	22:B0:2163:G:H5''	1.88	1.02
35:BJ:39:LYS:HG2	35:BJ:41:ARG:H	1.20	1.02
2:AW:58:A:H4'	2:AW:59:U:OP1	1.56	1.02
22:B0:1828:G:H4'	22:B0:1829:A:H5'	1.42	1.02
22:B0:2243:U:H1'	22:B0:2245:U:O4	1.59	1.02
22:B0:2501:C:H5''	22:B0:2503:A:H5'	1.41	1.02
22:B0:2137:U:H4'	22:B0:2138:G:OP1	1.53	1.02
28:BC:35:TYR:N	35:BJ:18:ARG:HB3	1.75	1.02
41:BQ:27:LYS:H	41:BQ:27:LYS:HD3	1.21	1.02
1:AA:1301:U:H5''	14:AM:12:LYS:HE2	1.43	1.01
22:B0:1426:G:H3'	22:B0:1428:C:H42	1.26	1.01
22:B0:774:G:H1'	22:B0:777:G:H21	1.24	1.01
22:B0:2176:A:O5'	24:B2:167:ASN:N	1.92	1.01
22:B0:2712:C:H1'	37:BL:15:SER:HB2	1.37	1.01
22:B0:1422:G:H2'	22:B0:1423:A:H5''	1.43	1.01
22:B0:1579:A:C6	26:BA:67:LYS:N	2.28	1.01
22:B0:2296:U:H4'	22:B0:2297:A:H5'	1.42	1.01
39:BN:86:LYS:HG3	39:BN:87:ARG:HD3	1.43	1.01
22:B0:2127:G:O3'	22:B0:2165:C:H2'	1.60	1.00
38:BM:25:ARG:HH21	38:BM:40:ILE:HD12	1.24	1.00
2:AV:36:A:H2'	2:AV:37:G:H5''	1.42	1.00
22:B0:2136:G:H2'	22:B0:2137:U:H5'	1.43	1.00
42:BR:25:GLU:HG3	42:BR:26:LYS:H	1.26	1.00
1:AA:1409:C:H4'	22:B0:1913:A:H4'	1.39	1.00
22:B0:662:G:H5''	28:BC:88:ARG:HG2	1.39	1.00
20:AS:83:ALA:HA	22:B0:891:G:N7	1.76	1.00
1:AA:418:C:C6	1:AA:541:G:P	2.53	1.00
1:AA:424:G:H1	5:AD:39:GLN:HE22	1.01	0.99
1:AA:1322:C:H4'	1:AA:1323:G:H5'	1.43	0.99
1:AA:420:U:P	1:AA:540:G:N2	2.36	0.99
40:BO:27:ARG:HE	40:BO:33:VAL:HB	1.26	0.99
1:AA:419:C:H2'	5:AD:39:GLN:HG2	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:160:LYS:H	27:BB:160:LYS:HD2	1.27	0.99
28:BC:186:VAL:HG22	28:BC:187:VAL:H	1.25	0.99
22:B0:961:C:H2'	22:B0:2497:A:O2'	1.60	0.99
26:BA:97:ASP:CG	26:BA:98:GLY:H	1.66	0.99
28:BC:83:VAL:HG11	35:BJ:30:THR:HG23	1.45	0.99
1:AA:1139:G:H4'	1:AA:1140:C:H5'	1.44	0.98
1:AA:1286:U:C3'	1:AA:1287:A:H5''	1.93	0.98
2:AW:36:A:H2'	2:AW:37:G:H5''	1.40	0.98
22:B0:479:A:H4'	43:BS:59:GLU:HG2	1.42	0.98
25:B5:59:LYS:HE2	25:B5:118:GLU:HB3	1.44	0.98
22:B0:2680:U:H2'	22:B0:2681:C:H5''	1.42	0.98
33:BH:16:TYR:O	33:BH:17:VAL:HG13	1.63	0.98
22:B0:959:A:C8	36:BK:80:VAL:HG12	1.99	0.98
22:B0:1491:A:H8	26:BA:175:LEU:HB2	1.29	0.98
22:B0:1496:A:N1	26:BA:155:ARG:HA	1.78	0.97
42:BR:8:LEU:HB3	46:BW:29:ARG:HD2	1.44	0.97
26:BA:158:GLY:H	26:BA:194:VAL:HB	1.28	0.97
5:AD:120:LYS:HG2	5:AD:128:VAL:HG11	1.46	0.97
1:AA:419:C:O4'	1:AA:541:G:C4'	2.11	0.97
42:BR:67:VAL:HG12	42:BR:68:LYS:H	1.27	0.97
22:B0:628:G:H21	22:B0:638:G:H4'	1.27	0.97
49:B1:42:VAL:HG22	49:B1:43:ARG:H	1.29	0.97
1:AA:1235:U:H2'	1:AA:1236:A:H5''	1.43	0.96
2:AU:36:A:H2'	2:AU:37:G:H5''	1.44	0.96
22:B0:2164:C:C4'	22:B0:2165:C:H1'	1.96	0.96
22:B0:2678:C:H42	22:B0:2729:G:H22	1.03	0.96
32:BG:6:ALA:HB3	32:BG:60:VAL:HG21	1.48	0.96
22:B0:799:G:H3'	28:BC:57:LYS:HB2	1.42	0.96
22:B0:1010:A:H5'	40:BO:62:ALA:HB1	1.46	0.96
37:BL:38:LEU:HB2	37:BL:39:PRO:HD3	1.47	0.96
13:AL:120:ARG:HH11	13:AL:120:ARG:HB3	1.29	0.96
29:BD:12:VAL:HG23	29:BD:13:LYS:HD2	1.46	0.96
22:B0:1992:G:H1	27:BB:138:LEU:HD11	1.30	0.96
22:B0:476:G:H22	22:B0:478:A:H3'	1.30	0.96
22:B0:1322:A:H61	22:B0:1333:G:H21	1.11	0.95
1:AA:1065:U:H5''	1:AA:1190:G:H21	1.28	0.95
29:BD:111:ARG:HH22	29:BD:134:GLN:HG3	1.30	0.95
1:AA:417:G:N2	1:AA:427:U:H1'	1.81	0.95
24:B2:208:ILE:H	24:B2:208:ILE:HD13	1.30	0.95
45:BU:30:VAL:HG22	45:BU:31:LEU:HD23	1.48	0.95
1:AA:979:C:H5''	20:AS:5:LYS:HD2	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:493:G:H5''	41:BQ:9:HIS:H	1.30	0.95
22:B0:2680:U:H5''	27:BB:114:LYS:HE2	1.44	0.95
22:B0:2128:G:H4'	22:B0:2165:C:H3'	1.43	0.95
33:BH:33:ALA:HB2	33:BH:105:VAL:HG23	1.48	0.95
21:AT:23:ARG:HB3	21:AT:60:GLN:HE21	1.32	0.95
22:B0:1996:C:C2	27:BB:138:LEU:HA	1.69	0.95
28:BC:91:ASP:HA	35:BJ:29:LYS:HB3	1.48	0.95
35:BJ:118:THR:HG23	35:BJ:119:PRO:HA	1.48	0.95
22:B0:2676:C:H41	27:BB:128:ARG:HG3	1.32	0.95
42:BR:33:LYS:HA	42:BR:82:LYS:HB3	1.46	0.95
1:AA:979:C:H5''	20:AS:5:LYS:CD	1.96	0.95
22:B0:1578:U:OP2	26:BA:101:ARG:HD2	1.65	0.95
39:BN:50:ARG:HE	39:BN:100:ARG:HH21	1.05	0.95
22:B0:1488:G:O6	26:BA:156:SER:HB2	1.67	0.94
22:B0:1758:U:H3	22:B0:2695:U:H4'	1.29	0.94
22:B0:2169:A:H5''	22:B0:2170:A:OP2	1.66	0.94
28:BC:178:VAL:HG13	28:BC:179:SER:H	1.29	0.94
39:BN:72:VAL:HG22	39:BN:73:PHE:H	1.32	0.94
22:B0:2164:C:H4'	22:B0:2165:C:H1'	1.46	0.94
33:BH:112:GLY:HA2	33:BH:113:PRO:O	1.68	0.94
22:B0:1043:C:H2'	22:B0:1044:C:H5''	1.47	0.94
39:BN:85:VAL:HG22	39:BN:86:LYS:H	1.32	0.94
11:AJ:57:VAL:HG12	11:AJ:58:ASN:H	1.29	0.94
22:B0:2143:C:O2'	22:B0:2144:G:H4'	1.68	0.94
24:B2:41:VAL:HG22	24:B2:215:THR:HG22	1.49	0.94
1:AA:1300:G:H4'	1:AA:1301:U:H5	1.33	0.94
22:B0:1578:U:H5''	26:BA:101:ARG:HD2	1.49	0.94
1:AA:107:G:H3'	1:AA:108:G:H21	1.32	0.94
1:AA:419:C:C2'	5:AD:39:GLN:HG2	1.98	0.93
1:AA:419:C:C3'	1:AA:540:G:H21	1.81	0.93
42:BR:30:ILE:HG12	42:BR:87:LEU:HD11	1.47	0.93
22:B0:800:A:H2	28:BC:60:TRP:H	1.05	0.93
1:AA:1186:G:H4'	10:AI:121:ARG:HA	1.48	0.93
1:AA:1519:A:H2'	1:AA:1520:C:H5'	1.49	0.93
22:B0:2861:U:HO2'	22:B0:2862:G:H8	1.07	0.93
28:BC:34:ALA:H	35:BJ:18:ARG:HG3	1.30	0.93
42:BR:16:VAL:HG12	42:BR:17:SER:H	1.30	0.93
22:B0:534:U:H3	22:B0:559:G:H22	1.17	0.93
22:B0:662:G:H5''	28:BC:88:ARG:CG	1.99	0.93
28:BC:35:TYR:H	35:BJ:18:ARG:CB	1.82	0.93
1:AA:1385:G:C2	10:AI:128:LYS:HE3	2.02	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:74:GLU:HG2	27:BB:75:ALA:H	1.34	0.93
35:BJ:79:LEU:HB3	35:BJ:111:ILE:HG12	1.48	0.93
6:AE:54:GLU:HG3	6:AE:56:PRO:HD2	1.51	0.93
22:B0:411:G:H5''	22:B0:412:A:OP1	1.69	0.93
22:B0:799:G:OP2	28:BC:57:LYS:HG3	1.69	0.93
22:B0:2776:A:H5'	22:B0:2777:G:OP1	1.69	0.93
43:BS:61:GLU:HG2	43:BS:63:ALA:H	1.33	0.93
22:B0:121:G:H4'	22:B0:149:A:H5'	1.51	0.93
1:AA:1286:U:H3'	1:AA:1287:A:C5'	1.99	0.93
1:AA:1385:G:N2	10:AI:128:LYS:HG3	1.82	0.93
25:B5:81:LYS:H	25:B5:81:LYS:HD3	1.32	0.93
33:BH:114:LEU:H	33:BH:114:LEU:HD13	1.34	0.93
37:BL:97:ILE:HD12	37:BL:111:ALA:HB1	1.49	0.93
5:AD:33:ILE:HD11	5:AD:35:GLN:HE21	1.34	0.92
22:B0:1201:U:H3	22:B0:1245:G:H22	1.15	0.92
22:B0:864:G:H2'	22:B0:865:C:O4'	1.69	0.92
22:B0:1491:A:C8	26:BA:175:LEU:HB2	2.05	0.92
23:B9:84:G:H2'	23:B9:85:G:H5''	1.49	0.92
22:B0:1250:G:H4'	40:BO:8:ILE:HD12	1.49	0.92
22:B0:2894:U:OP1	33:BH:11:VAL:HG22	1.69	0.92
39:BN:29:VAL:HG22	39:BN:30:TRP:H	1.32	0.92
22:B0:480:A:H3'	22:B0:481:G:C5'	1.99	0.92
22:B0:699:A:H4'	22:B0:1634:A:N6	1.85	0.92
22:B0:1244:A:H4'	28:BC:33:VAL:HG12	1.51	0.92
22:B0:1582:C:H2'	26:BA:96:LYS:HB2	1.51	0.92
45:BU:66:VAL:HG22	45:BU:67:LYS:H	1.32	0.92
11:AJ:100:ILE:HD13	11:AJ:100:ILE:H	1.34	0.92
37:BL:75:ILE:HD13	37:BL:75:ILE:H	1.33	0.92
22:B0:960:A:H8	22:B0:2496:C:P	1.92	0.92
22:B0:1828:G:H5''	22:B0:1829:A:OP1	1.67	0.92
1:AA:545:C:H4'	1:AA:549:C:H4'	0.93	0.92
3:AB:36:LYS:HG3	3:AB:37:VAL:H	1.35	0.92
10:AI:57:VAL:HG23	10:AI:58:GLU:H	1.35	0.92
22:B0:1046:A:H3'	25:B5:29:LYS:HD2	1.51	0.92
22:B0:1832:C:H3'	22:B0:1833:C:H5''	1.50	0.92
26:BA:93:VAL:HG11	26:BA:103:ILE:HD12	1.52	0.92
29:BD:110:ILE:HG22	29:BD:111:ARG:NE	1.82	0.92
1:AA:1264:U:H3	1:AA:1271:A:N6	1.68	0.91
1:AA:566:G:H5''	1:AA:567:G:OP1	1.68	0.91
1:AA:1528:U:H5''	1:AA:1529:G:OP1	1.70	0.91
7:AF:81:ASN:HD21	7:AF:83:ALA:HB3	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:H6	20:AS:5:LYS:HB2	1.34	0.91
22:B0:1996:C:C2	27:BB:138:LEU:C	2.42	0.91
22:B0:1664:A:H61	22:B0:1996:C:H42	1.10	0.91
1:AA:1128:C:H1'	1:AA:1146:A:H61	1.33	0.91
37:BL:99:LYS:HA	37:BL:111:ALA:HB2	1.51	0.91
22:B0:1421:G:N1	26:BA:149:LYS:C	2.23	0.91
33:BH:17:VAL:HG12	33:BH:55:ILE:N	1.86	0.91
10:AI:83:THR:HG21	10:AI:102:PHE:HB3	1.49	0.91
29:BD:68:LYS:H	29:BD:68:LYS:HD3	1.35	0.91
22:B0:918:A:H4'	23:B9:81:G:H4'	1.52	0.91
22:B0:1930:G:H4'	22:B0:1931:U:C5	2.06	0.91
27:BB:28:GLU:HA	27:BB:186:LEU:HD22	1.50	0.91
28:BC:182:ALA:HA	35:BJ:16:GLY:HA2	1.53	0.91
1:AA:483:C:H4'	1:AA:484:G:OP2	1.70	0.90
22:B0:321:U:H5''	22:B0:322:A:OP2	1.71	0.90
28:BC:34:ALA:HB3	35:BJ:19:LEU:N	1.86	0.90
1:AA:418:C:H6	1:AA:541:G:OP1	1.36	0.90
1:AA:1099:G:H2'	1:AA:1100:C:O4'	1.71	0.90
28:BC:92:HIS:N	35:BJ:29:LYS:HG3	1.84	0.90
45:BU:23:LYS:HB3	45:BU:23:LYS:HZ3	1.34	0.90
1:AA:125:U:H3	1:AA:236:A:H61	1.18	0.90
37:BL:64:ARG:CZ	37:BL:64:ARG:HA	2.02	0.90
26:BA:67:LYS:HZ2	26:BA:188:ARG:HH22	1.17	0.90
32:BG:79:LEU:HD11	32:BG:128:ILE:HD11	1.53	0.90
42:BR:29:THR:HA	42:BR:86:THR:HA	1.51	0.90
22:B0:1421:G:C5	26:BA:149:LYS:CA	2.55	0.90
22:B0:2678:C:C5'	27:BB:124:ARG:HB3	2.01	0.90
22:B0:2144:G:H2'	22:B0:2145:C:H5''	1.54	0.90
33:BH:122:LEU:H	33:BH:122:LEU:HD13	1.36	0.90
25:B3:57:ILE:HG12	25:B3:92:ALA:HB1	1.52	0.90
33:BH:100:VAL:HG13	33:BH:101:ILE:H	1.35	0.90
9:AH:116:ARG:HB2	9:AH:116:ARG:HH11	1.35	0.90
28:BC:49:ARG:HG3	28:BC:50:ALA:H	1.35	0.90
8:AG:78:ARG:HG3	8:AG:83:THR:HG22	1.53	0.90
28:BC:32:VAL:HB	35:BJ:17:LYS:HD3	1.54	0.90
2:AU:74:C:H2'	22:B0:2557:G:H4'	1.51	0.90
22:B0:600:G:C4	28:BC:99:LYS:HG2	2.06	0.90
22:B0:1131:G:H1'	33:BH:81:ILE:HD11	1.51	0.90
22:B0:2122:U:H4'	22:B0:2123:G:O5'	1.72	0.90
22:B0:2263:C:H5''	45:BU:11:ASN:HA	1.52	0.90
22:B0:2128:G:OP2	22:B0:2166:U:H4'	1.71	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:175:LEU:HD12	26:BA:176:ARG:N	1.86	0.89
41:BQ:35:ILE:HD13	41:BQ:36:LEU:N	1.87	0.89
1:AA:538:G:OP2	13:AL:111:GLN:CD	2.10	0.89
22:B0:807:U:C4'	22:B0:2445:G:H4'	2.02	0.89
25:B3:51:LYS:HB3	25:B5:46:GLU:HB2	1.52	0.89
48:BZ:52:LYS:HE3	48:BZ:52:LYS:H	1.35	0.89
33:BH:16:TYR:HB3	33:BH:54:ILE:HG22	1.55	0.89
26:BA:137:GLY:H	26:BA:163:ILE:HB	1.34	0.89
39:BN:96:LEU:H	39:BN:96:LEU:HD13	1.37	0.89
42:BR:11:LEU:HA	42:BR:34:VAL:HA	1.52	0.89
17:AP:67:ILE:HD13	17:AP:67:ILE:H	1.38	0.89
22:B0:493:G:N2	41:BQ:7:HIS:HA	1.87	0.89
22:B0:1322:A:N6	22:B0:1333:G:H21	1.70	0.89
22:B0:2162:G:H3'	22:B0:2163:G:H5''	0.93	0.89
1:AA:588:G:H1	1:AA:651:C:H42	1.18	0.89
22:B0:733:G:H5''	22:B0:761:A:N6	1.88	0.89
22:B0:1201:U:H3	22:B0:1245:G:N2	1.69	0.89
22:B0:2678:C:N4	22:B0:2729:G:H22	1.70	0.89
22:B0:2897:U:C4	33:BH:14:ASP:HB2	2.08	0.89
39:BN:20:ARG:HG2	39:BN:25:VAL:HG21	1.55	0.89
22:B0:2333:A:H5''	22:B0:2334:U:OP1	1.72	0.89
26:BA:123:ILE:HD13	26:BA:123:ILE:H	1.35	0.89
22:B0:959:A:H2'	22:B0:2496:C:O5'	1.73	0.89
22:B0:1579:A:C4	26:BA:67:LYS:CG	2.41	0.89
22:B0:1996:C:N1	27:BB:138:LEU:C	2.27	0.89
33:BH:96:ARG:HD3	33:BH:99:ARG:H	1.36	0.89
42:BR:65:GLY:H	42:BR:77:ARG:NH2	1.69	0.89
22:B0:2175:C:O3'	24:B2:167:ASN:HB3	1.72	0.88
40:BO:11:ALA:HA	40:BO:14:LYS:HE2	1.55	0.88
22:B0:2240:U:H2'	22:B0:2241:A:H8	1.39	0.88
22:B0:2543:G:H21	22:B0:2646:C:H4'	1.37	0.88
28:BC:181:ILE:HA	28:BC:186:VAL:HB	1.55	0.88
22:B0:658:U:H3	28:BC:99:LYS:HE2	1.37	0.88
22:B0:2121:G:H1	22:B0:2178:C:H41	1.18	0.88
22:B0:495:G:C5	41:BQ:6:LYS:HD3	2.08	0.88
22:B0:1495:A:H62	26:BA:142:ASN:ND2	1.70	0.88
33:BH:111:LYS:HA	33:BH:111:LYS:NZ	1.89	0.88
48:BZ:31:LYS:H	48:BZ:31:LYS:HD3	1.38	0.88
22:B0:960:A:C8	22:B0:2496:C:H5'	2.08	0.88
22:B0:590:A:C8	28:BC:47:LYS:HA	2.08	0.88
25:B3:59:LYS:HE2	25:B3:118:GLU:HB3	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:39:GLN:HA	46:BW:39:GLN:HE21	1.39	0.88
21:AT:68:LYS:H	21:AT:68:LYS:HD3	1.37	0.88
22:B0:528:A:H61	22:B0:2043:C:H5''	1.39	0.88
28:BC:36:ALA:H	35:BJ:18:ARG:HD3	1.39	0.88
1:AA:6:G:H1	6:AE:102:THR:HG23	1.40	0.87
26:BA:158:GLY:N	26:BA:194:VAL:HB	1.88	0.87
27:BB:157:LYS:H	27:BB:157:LYS:HD2	1.38	0.87
16:AO:28:VAL:HG11	16:AO:80:LEU:HD11	1.55	0.87
22:B0:2142:A:H2'	22:B0:2143:C:H5'	1.56	0.87
32:BG:48:ILE:HD13	32:BG:48:ILE:H	1.39	0.87
33:BH:136:GLN:H	33:BH:137:PRO:HD3	1.37	0.87
1:AA:727:G:H5''	1:AA:741:G:H22	1.39	0.87
22:B0:1047:G:OP1	25:B5:29:LYS:HD3	1.73	0.87
22:B0:859:G:H5''	22:B0:860:U:OP1	1.73	0.87
35:BJ:46:VAL:HG23	35:BJ:47:ARG:H	1.40	0.87
1:AA:419:C:H1'	5:AD:39:GLN:CB	2.03	0.87
22:B0:1578:U:C6	26:BA:101:ARG:HD3	2.08	0.87
22:B0:2164:C:H4'	22:B0:2165:C:C1'	2.03	0.87
22:B0:2756:U:O2'	22:B0:2757:A:H5''	1.73	0.87
28:BC:118:LEU:H	28:BC:118:LEU:HD23	1.39	0.87
1:AA:1381:U:H2'	8:AG:78:ARG:NE	1.90	0.87
34:BI:3:GLN:HB2	34:BI:31:ARG:HB3	1.57	0.87
42:BR:36:LYS:HD3	42:BR:36:LYS:H	1.39	0.87
1:AA:1194:U:H5''	6:AE:25:LYS:HD2	1.55	0.87
22:B0:1495:A:C2	26:BA:188:ARG:HB2	2.10	0.87
33:BH:84:ILE:HD13	33:BH:84:ILE:H	1.37	0.87
39:BN:88:ARG:HH11	39:BN:88:ARG:H	1.19	0.87
13:AL:55:ARG:HG2	13:AL:61:GLU:HG3	1.54	0.87
22:B0:961:C:H4'	22:B0:2498:C:C5	2.10	0.87
22:B0:2490:G:H5''	22:B0:2491:U:OP1	1.75	0.87
41:BQ:76:VAL:HA	41:BQ:102:HIS:O	1.75	0.87
7:AF:50:PRO:O	7:AF:51:ILE:HG13	1.75	0.86
31:BF:61:VAL:HG23	31:BF:62:LEU:HD12	1.55	0.86
1:AA:566:G:H4'	1:AA:567:G:H5'	1.57	0.86
22:B0:215:G:H4'	22:B0:216:A:H4'	1.55	0.86
22:B0:803:U:H3	28:BC:61:ARG:NH1	1.73	0.86
22:B0:1500:A:H61	26:BA:156:SER:HA	1.40	0.86
22:B0:1609:A:H1'	22:B0:1616:A:H1'	1.55	0.86
22:B0:2498:C:O2	22:B0:2498:C:H2'	1.73	0.86
1:AA:450:G:H1'	17:AP:13:LYS:HA	1.56	0.86
1:AA:1066:C:H2'	1:AA:1067:A:O4'	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AL:79:ILE:HD13	13:AL:80:LEU:N	1.90	0.86
22:B0:800:A:OP2	28:BC:53:THR:HB	1.73	0.86
22:B0:958:U:H3'	36:BK:80:VAL:CG2	2.05	0.86
22:B0:2328:A:O2'	45:BU:9:THR:HA	1.75	0.86
22:B0:285:G:H22	22:B0:355:U:H3	1.23	0.86
22:B0:2227:A:H2'	22:B0:2228:G:H5'	1.55	0.86
9:AH:102:VAL:HG13	9:AH:125:ILE:HB	1.55	0.86
22:B0:1060:U:H1'	22:B0:1062:G:H5'	1.57	0.86
22:B0:1426:G:H3'	22:B0:1428:C:N4	1.88	0.86
28:BC:49:ARG:HB3	28:BC:49:ARG:HH11	1.38	0.86
4:AC:112:ALA:HB1	4:AC:184:ASN:HD22	1.39	0.86
24:B2:202:GLN:NE2	24:B2:202:GLN:H	1.73	0.86
1:AA:1385:G:N3	10:AI:128:LYS:HE3	1.90	0.86
22:B0:480:A:C3'	22:B0:481:G:H5''	2.03	0.86
22:B0:493:G:H3'	41:BQ:8:ARG:HA	1.56	0.86
22:B0:574:A:HO2'	22:B0:2055:C:H5	0.91	0.86
22:B0:1252:G:H1'	40:BO:32:ARG:NE	1.91	0.86
41:BQ:12:SER:HB3	41:BQ:17:VAL:HG21	1.57	0.86
4:AC:56:ILE:HG23	4:AC:63:ILE:HD11	1.58	0.86
10:AI:114:LYS:HB2	10:AI:120:ALA:HA	1.58	0.86
22:B0:2072:C:H42	22:B0:2437:G:H1	1.22	0.86
32:BG:133:ARG:HA	32:BG:133:ARG:HE	1.39	0.85
22:B0:493:G:C5'	41:BQ:9:HIS:H	1.89	0.85
22:B0:958:U:H4'	36:BK:76:LYS:CB	2.03	0.85
4:AC:42:LEU:HA	4:AC:46:LEU:HD23	1.58	0.85
17:AP:6:LEU:HB3	17:AP:17:TYR:HB3	1.57	0.85
27:BB:114:LYS:HD3	27:BB:196:ALA:HB2	1.58	0.85
29:BD:47:LYS:HG2	29:BD:48:LEU:H	1.38	0.85
1:AA:979:C:OP2	20:AS:5:LYS:HG3	1.75	0.85
3:AB:185:ILE:HD13	3:AB:185:ILE:H	1.40	0.85
6:AE:33:THR:HG22	6:AE:51:LYS:HG3	1.56	0.85
22:B0:1314:C:H42	22:B0:1338:G:H1	1.20	0.85
22:B0:2176:A:H3'	24:B2:166:LYS:HA	1.56	0.85
26:BA:80:LEU:HD21	26:BA:89:ASN:HB2	1.59	0.85
2:AW:76:A:O2'	22:B0:2429:G:H2'	1.75	0.85
10:AI:27:ILE:H	10:AI:34:LEU:HD11	1.40	0.85
1:AA:1221:G:H2'	20:AS:1:PRO:H2	1.39	0.85
2:AV:16:U:H5''	2:AV:17:U:OP1	1.75	0.85
4:AC:130:ARG:HE	6:AE:53:ARG:CD	1.88	0.85
26:BA:64:VAL:HG12	26:BA:65:ASP:N	1.90	0.85
27:BB:37:VAL:HA	27:BB:78:GLY:HA3	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:68:LYS:HA	33:BH:68:LYS:NZ	1.92	0.85
22:B0:1201:U:H2'	35:BJ:14:LYS:HG2	1.58	0.85
22:B0:1770:G:H1	22:B0:1982:U:H3	1.21	0.85
37:BL:44:LEU:O	37:BL:47:VAL:HG22	1.75	0.85
1:AA:421:U:O4	5:AD:43:ARG:CB	2.25	0.85
2:AV:18:G:H4'	2:AV:19:G:OP1	1.74	0.85
22:B0:838:C:H42	22:B0:940:G:H1	1.22	0.85
22:B0:1494:A:H4'	26:BA:140:VAL:HG21	1.59	0.85
22:B0:2176:A:H5'	24:B2:165:ASP:C	1.97	0.85
43:BS:4:ILE:HD13	43:BS:4:ILE:H	1.40	0.85
1:AA:1302:C:H5'	14:AM:16:ILE:HG13	1.57	0.85
8:AG:149:ALA:HB2	12:AK:60:PHE:HB2	1.58	0.85
22:B0:750:A:H4'	22:B0:751:A:OP1	1.75	0.85
22:B0:2678:C:H5''	27:BB:125:TRP:H	1.42	0.85
28:BC:176:ASP:HB2	28:BC:178:VAL:HG12	1.58	0.85
40:BO:40:LYS:HA	40:BO:40:LYS:HE3	1.58	0.85
1:AA:531:U:H5''	1:AA:532:A:OP1	1.76	0.85
19:AR:33:THR:HG22	19:AR:34:GLU:H	1.41	0.85
22:B0:776:G:C4'	22:B0:777:G:H5''	2.07	0.85
22:B0:1490:C:H4'	26:BA:161:VAL:HA	1.59	0.85
22:B0:2644:G:H1	22:B0:2676:C:H1'	1.41	0.85
30:BE:34:ARG:HE	30:BE:70:LEU:HD13	1.40	0.85
1:AA:418:C:H6	1:AA:541:G:P	1.96	0.84
22:B0:960:A:C1'	22:B0:2496:C:H5''	2.07	0.84
29:BD:79:ARG:HG2	29:BD:80:GLN:H	1.42	0.84
1:AA:417:G:H22	1:AA:427:U:H1'	1.38	0.84
1:AA:971:G:H5''	1:AA:972:C:H5'	1.59	0.84
22:B0:1693:U:H5''	22:B0:1694:C:OP2	1.77	0.84
22:B0:2780:G:H4'	33:BH:116:ARG:HE	1.40	0.84
39:BN:105:LYS:HA	39:BN:105:LYS:NZ	1.91	0.84
41:BQ:88:ARG:HH12	41:BQ:92:ARG:HB3	1.43	0.84
42:BR:63:VAL:HG12	42:BR:81:LYS:HB2	1.59	0.84
4:AC:13:ILE:HD13	4:AC:177:LEU:HD23	1.56	0.84
22:B0:784:G:H5'	22:B0:785:G:OP1	1.77	0.84
26:BA:141:HIS:O	26:BA:189:ALA:HB1	1.78	0.84
45:BU:71:LYS:H	45:BU:71:LYS:HD2	1.41	0.84
10:AI:56:MET:HB3	10:AI:60:LEU:HD13	1.59	0.84
22:B0:532:A:H5'	22:B0:561:G:H21	1.42	0.84
1:AA:424:G:C2	5:AD:39:GLN:OE1	2.30	0.84
5:AD:204:SER:HB2	6:AE:111:ARG:NH2	1.91	0.84
2:AU:74:C:H2'	22:B0:2557:G:C4'	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:586:A:H4'	28:BC:78:TRP:HA	1.57	0.84
28:BC:108:ILE:HD12	28:BC:180:LEU:HD12	1.59	0.84
22:B0:590:A:H3'	28:BC:47:LYS:NZ	1.91	0.84
22:B0:658:U:C2	28:BC:98:LYS:HD3	2.12	0.84
22:B0:2504:U:H1'	22:B0:2572:A:H2	1.43	0.84
2:AW:76:A:C1'	22:B0:2430:A:H5''	2.08	0.84
16:AO:28:VAL:HG23	16:AO:62:ARG:HG3	1.59	0.84
22:B0:1992:G:H1'	22:B0:1994:C:H5	1.42	0.84
22:B0:2127:G:H3'	22:B0:2166:U:C5'	2.07	0.84
22:B0:2175:C:N3	24:B2:171:HIS:ND1	2.25	0.84
43:BS:51:LEU:HB2	43:BS:53:GLN:HE22	1.43	0.84
13:AL:32:VAL:HG22	13:AL:78:VAL:HG22	1.60	0.84
22:B0:1492:G:OP2	26:BA:175:LEU:HD13	1.77	0.84
22:B0:2542:A:H4'	22:B0:2543:G:H5'	1.59	0.84
26:BA:62:ARG:NH2	26:BA:149:LYS:HZ3	1.75	0.84
26:BA:184:GLU:HG2	26:BA:185:ALA:H	1.42	0.84
28:BC:93:SER:OG	35:BJ:23:ILE:HG23	1.78	0.84
39:BN:9:GLN:NE2	39:BN:9:GLN:H	1.75	0.84
1:AA:1264:U:H3	1:AA:1271:A:H61	0.90	0.84
1:AA:1300:G:H4'	1:AA:1301:U:C5	2.13	0.84
41:BQ:74:ILE:HG22	41:BQ:105:VAL:HA	1.60	0.84
41:BQ:92:ARG:HG3	41:BQ:93:ALA:H	1.43	0.84
1:AA:424:G:H1	5:AD:39:GLN:NE2	1.76	0.83
2:AU:16:U:H5''	2:AU:17:U:OP1	1.77	0.83
27:BB:79:LEU:H	27:BB:79:LEU:HD22	1.43	0.83
2:AW:18:G:H4'	2:AW:19:G:OP1	1.77	0.83
36:BK:78:LEU:HG	36:BK:79:ALA:H	1.41	0.83
1:AA:517:G:H4'	1:AA:519:C:C2	2.13	0.83
22:B0:1496:A:N7	26:BA:194:VAL:HG13	1.92	0.83
30:BE:88:LEU:HD13	30:BE:88:LEU:H	1.43	0.83
33:BH:11:VAL:HG23	33:BH:12:LYS:HG2	1.60	0.83
33:BH:54:ILE:HG12	33:BH:122:LEU:HB3	1.58	0.83
41:BQ:83:LYS:HZ2	41:BQ:83:LYS:HB3	1.42	0.83
22:B0:749:A:H2'	22:B0:750:A:H5'	1.60	0.83
22:B0:1449:A:H1'	22:B0:1527:G:H22	1.42	0.83
22:B0:2120:G:H4'	22:B0:2121:G:O5'	1.76	0.83
22:B0:2685:G:H1	22:B0:2724:U:H3	1.25	0.83
42:BR:10:VAL:HG13	42:BR:35:ALA:HB3	1.61	0.83
1:AA:419:C:C5'	1:AA:540:G:C2	2.60	0.83
1:AA:1369:C:OP2	10:AI:112:ARG:HB3	1.79	0.83
22:B0:408:G:H1	22:B0:419:U:H3	1.24	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AS:28:LYS:HB3	20:AS:29:PRO:HD2	1.61	0.83
22:B0:1579:A:P	26:BA:66:PHE:H	2.01	0.83
22:B0:1965:C:H3'	22:B0:1966:A:C5'	2.08	0.83
37:BL:34:ILE:HB	37:BL:113:ILE:HD13	1.59	0.83
1:AA:418:C:N1	1:AA:541:G:OP1	2.03	0.83
22:B0:2263:C:H4'	45:BU:9:THR:HB	1.61	0.83
28:BC:92:HIS:H	35:BJ:29:LYS:CG	1.88	0.83
39:BN:91:VAL:HG12	39:BN:92:ARG:H	1.43	0.83
42:BR:77:ARG:NH2	42:BR:79:ASP:H	1.77	0.83
1:AA:1317:C:N4	20:AS:6:LYS:HA	1.92	0.83
5:AD:148:ALA:HB1	5:AD:151:GLN:HE21	1.43	0.83
28:BC:134:LEU:HD13	28:BC:137:LYS:HZ1	1.42	0.83
1:AA:792:A:H5''	1:AA:793:U:OP1	1.77	0.83
1:AA:1322:C:H5''	1:AA:1323:G:OP1	1.78	0.83
4:AC:76:ILE:HA	4:AC:83:VAL:HG13	1.61	0.83
22:B0:48:G:O3'	22:B0:51:G:H5'	1.79	0.83
22:B0:1606:C:H4'	22:B0:1607:C:C6	2.13	0.83
38:BM:7:ARG:H	38:BM:7:ARG:HD3	1.44	0.83
5:AD:131:ILE:HG23	5:AD:134:TYR:HB2	1.60	0.83
22:B0:1408:G:H22	22:B0:1594:U:H3	1.26	0.83
22:B0:2162:G:N7	22:B0:2164:C:H3'	1.93	0.83
36:BK:80:VAL:O	36:BK:81:ARG:HB2	1.79	0.83
40:BO:2:ARG:HG2	40:BO:3:VAL:H	1.43	0.83
41:BQ:25:ARG:NE	41:BQ:25:ARG:H	1.76	0.83
5:AD:94:GLU:HG2	5:AD:185:PRO:HG3	1.61	0.82
10:AI:34:LEU:H	10:AI:34:LEU:HD12	1.44	0.82
22:B0:2547:A:H62	22:B0:2566:A:H62	1.25	0.82
41:BQ:51:LEU:HA	41:BQ:105:VAL:HG11	1.59	0.82
13:AL:120:ARG:HB3	13:AL:120:ARG:NH1	1.93	0.82
43:BS:34:ILE:HB	43:BS:61:GLU:HG3	1.60	0.82
17:AP:7:ALA:HB3	17:AP:18:GLN:HB3	1.61	0.82
22:B0:493:G:C8	41:BQ:10:ALA:N	2.42	0.82
22:B0:956:G:H2'	36:BK:80:VAL:HG22	1.60	0.82
22:B0:2225:A:H4'	22:B0:2226:C:H5'	1.61	0.82
1:AA:1484:C:H4'	22:B0:1959:G:H21	1.44	0.82
3:AB:19:THR:HG23	3:AB:20:ARG:H	1.43	0.82
22:B0:301:G:H4'	22:B0:302:C:OP1	1.78	0.82
22:B0:668:A:H3'	22:B0:670:A:H61	1.45	0.82
24:B2:200:PRO:HG2	24:B2:203:ALA:HB2	1.59	0.82
39:BN:26:GLU:H	39:BN:88:ARG:HG3	1.43	0.82
2:AU:18:G:H4'	2:AU:19:G:OP1	1.77	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1542:C:H2'	22:B0:1543:G:H5'	1.61	0.82
22:B0:1582:C:H41	26:BA:73:ILE:HG21	1.42	0.82
1:AA:545:C:O2'	1:AA:549:C:O4'	1.97	0.82
2:AU:74:C:H4'	22:B0:2556:C:H2'	1.59	0.82
49:B1:12:SER:HA	49:B1:50:GLU:HA	1.60	0.82
22:B0:1830:C:H42	22:B0:1975:G:H22	1.25	0.82
22:B0:2153:C:O3'	22:B0:2154:A:H3'	1.80	0.82
26:BA:142:ASN:O	26:BA:189:ALA:HA	1.78	0.82
33:BH:96:ARG:HB2	33:BH:97:PRO:HA	1.59	0.82
2:AV:20:G:H21	2:AV:22:G:H5'	1.45	0.82
22:B0:1668:A:H61	22:B0:1676:A:H61	1.25	0.82
49:B1:32:LYS:HA	49:B1:32:LYS:HZ3	1.45	0.82
1:AA:40:C:H2'	1:AA:41:G:H8	1.43	0.82
1:AA:499:A:H4'	1:AA:500:G:OP1	1.78	0.82
2:AU:64:A:H4'	22:B0:2482:A:H4'	1.61	0.82
17:AP:14:ARG:HB2	17:AP:14:ARG:NH1	1.95	0.82
22:B0:278:A:OP1	22:B0:363:G:H1'	1.79	0.82
22:B0:781:A:H1'	22:B0:1789:A:H4'	1.61	0.82
22:B0:959:A:N9	36:BK:80:VAL:HG12	1.94	0.82
24:B2:10:ILE:HD11	24:B2:32:LEU:HA	1.62	0.82
27:BB:36:GLN:HG2	27:BB:54:ALA:HA	1.62	0.82
28:BC:37:ALA:HB1	28:BC:40:ARG:HD2	1.62	0.82
22:B0:588:U:N3	28:BC:74:LYS:HG3	1.95	0.82
22:B0:2772:C:H4'	27:BB:168:GLU:HG3	1.61	0.82
1:AA:419:C:O4'	1:AA:541:G:H4'	1.80	0.81
22:B0:1090:A:H61	22:B0:1101:U:H3	1.25	0.81
22:B0:2439:A:H5''	22:B0:2440:C:OP1	1.78	0.81
25:B3:96:GLU:HB3	25:B5:8:ILE:HG23	1.61	0.81
26:BA:175:LEU:CG	26:BA:178:GLY:H	1.92	0.81
33:BH:102:GLU:HB2	33:BH:124:VAL:HG11	1.62	0.81
33:BH:123:LYS:HA	33:BH:123:LYS:NZ	1.94	0.81
1:AA:538:G:OP2	13:AL:111:GLN:NE2	2.13	0.81
16:AO:11:VAL:HG22	16:AO:30:LEU:HD11	1.61	0.81
22:B0:1061:U:H5''	22:B0:1062:G:OP2	1.80	0.81
27:BB:33:ARG:HB2	27:BB:81:GLU:HB2	1.62	0.81
30:BE:25:ILE:HD12	30:BE:78:VAL:HG21	1.61	0.81
1:AA:545:C:H4'	1:AA:549:C:C5'	2.10	0.81
1:AA:1101:A:H4'	1:AA:1102:A:O5'	1.79	0.81
3:AB:59:ILE:HD12	3:AB:66:ILE:HD11	1.60	0.81
8:AG:34:LYS:HE2	8:AG:37:THR:HB	1.59	0.81
9:AH:116:ARG:HB2	9:AH:116:ARG:NH1	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:114:LYS:H	10:AI:120:ALA:HB2	1.45	0.81
22:B0:70:G:H4'	22:B0:73:A:O4'	1.80	0.81
22:B0:1496:A:H62	26:BA:194:VAL:CG2	1.93	0.81
26:BA:143:VAL:HG12	26:BA:189:ALA:HB1	1.61	0.81
28:BC:74:LYS:HB2	28:BC:74:LYS:HZ2	1.45	0.81
28:BC:147:LEU:HB3	28:BC:165:HIS:HB2	1.61	0.81
35:BJ:105:ILE:HG13	35:BJ:106:GLU:H	1.45	0.81
37:BL:63:ARG:NH1	37:BL:64:ARG:HE	1.79	0.81
37:BL:97:ILE:HD13	37:BL:98:LEU:H	1.44	0.81
39:BN:83:ILE:HD13	39:BN:84:SER:H	1.44	0.81
40:BO:73:ILE:HD12	40:BO:77:LYS:HB3	1.61	0.81
1:AA:545:C:O3'	1:AA:548:G:O2'	1.97	0.81
22:B0:958:U:C3'	36:BK:80:VAL:HG23	2.09	0.81
22:B0:1045:C:H4'	25:B5:29:LYS:HE3	1.61	0.81
22:B0:1299:G:H22	22:B0:1639:C:H5	1.24	0.81
22:B0:2050:C:H2'	22:B0:2051:A:O4'	1.81	0.81
40:BO:16:ILE:HG23	40:BO:17:LEU:HG	1.62	0.81
46:BW:42:LEU:HA	46:BW:45:GLN:HB2	1.62	0.81
1:AA:173:U:C5'	1:AA:197:A:H1'	2.09	0.81
3:AB:25:LYS:HA	3:AB:25:LYS:HE2	1.63	0.81
14:AM:89:ARG:HD2	14:AM:92:ARG:HH21	1.43	0.81
22:B0:2835:A:H5''	22:B0:2836:U:OP1	1.80	0.81
24:B2:25:ALA:HB1	24:B2:213:ILE:HG21	1.61	0.81
1:AA:595:A:H5''	1:AA:596:A:OP1	1.81	0.81
22:B0:658:U:H3'	28:BC:98:LYS:HE2	1.61	0.81
22:B0:1416:G:N1	26:BA:94:LEU:HA	1.96	0.81
22:B0:2161:C:H5'	24:B2:5:LYS:HA	1.62	0.81
22:B0:2161:C:C4'	22:B0:2162:G:H4'	2.11	0.81
28:BC:90:GLN:CG	35:BJ:27:LEU:HB2	2.10	0.81
42:BR:8:LEU:HD22	42:BR:11:LEU:HD21	1.61	0.81
22:B0:1943:U:O4'	22:B0:1945:G:H5'	1.80	0.81
22:B0:2680:U:C2'	22:B0:2681:C:H5''	2.11	0.81
22:B0:2788:C:H2'	22:B0:2891:A:C6	2.15	0.81
1:AA:419:C:O2'	5:AD:39:GLN:HB3	1.79	0.81
22:B0:1083:U:O2'	25:B3:81:LYS:HE2	1.80	0.81
22:B0:165:A:H5'	22:B0:172:A:OP1	1.81	0.81
44:BT:72:VAL:HG12	44:BT:93:ARG:HA	1.63	0.81
46:BW:44:LYS:O	46:BW:48:ARG:HD3	1.79	0.81
1:AA:1443:C:H5''	1:AA:1446:A:H5'	1.62	0.80
22:B0:1417:U:H3'	26:BA:99:GLU:O	1.81	0.80
22:B0:2789:C:OP1	22:B0:2809:A:H1'	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B3:4:LYS:HE3	25:B3:4:LYS:HA	1.63	0.80
1:AA:391:G:H21	1:AA:483:C:H1'	1.46	0.80
1:AA:752:G:HO2'	1:AA:754:C:H5	1.29	0.80
22:B0:447:A:H4'	22:B0:449:A:N7	1.94	0.80
22:B0:493:G:C2	41:BQ:7:HIS:HA	2.16	0.80
22:B0:2360:G:H1'	35:BJ:60:ARG:HH22	1.46	0.80
22:B0:2458:G:H5''	22:B0:2459:A:OP1	1.80	0.80
28:BC:24:ASN:HB3	28:BC:27:LEU:HD23	1.61	0.80
28:BC:130:LYS:HB2	28:BC:133:LEU:HD13	1.60	0.80
29:BD:87:LYS:HZ3	29:BD:87:LYS:HB2	1.46	0.80
37:BL:78:LYS:HE2	37:BL:78:LYS:HA	1.63	0.80
14:AM:4:ALA:H	14:AM:7:ASN:HD21	1.30	0.80
14:AM:80:MET:HG2	14:AM:91:ARG:HH21	1.46	0.80
22:B0:2161:C:H1'	22:B0:2162:G:C1'	2.12	0.80
47:BX:8:GLN:HA	47:BX:54:VAL:HG12	1.63	0.80
1:AA:827:U:H5'	9:AH:15:ASN:HD21	1.44	0.80
22:B0:1930:G:H4'	22:B0:1931:U:H5	1.44	0.80
22:B0:1931:U:H2'	22:B0:1932:A:H5''	1.64	0.80
22:B0:2286:G:H1	49:B1:35:LEU:HD11	1.46	0.80
22:B0:1046:A:O2'	25:B5:26:MET:HA	1.81	0.80
22:B0:1664:A:H61	22:B0:1996:C:N4	1.79	0.80
25:B3:86:LEU:HD12	25:B3:91:PRO:HB2	1.64	0.80
26:BA:175:LEU:HG	26:BA:178:GLY:H	1.45	0.80
19:AR:6:ARG:HH21	19:AR:42:ARG:HE	1.29	0.80
22:B0:712:G:H2'	22:B0:713:G:H8	1.46	0.80
33:BH:10:THR:HA	33:BH:13:ARG:NE	1.96	0.80
22:B0:1416:G:H1	26:BA:95:TYR:N	1.80	0.80
22:B0:2249:U:H1'	22:B0:2275:C:N4	1.96	0.80
22:B0:2678:C:H5''	27:BB:125:TRP:N	1.97	0.80
28:BC:88:ARG:H	28:BC:89:PRO:CD	1.94	0.80
40:BO:94:LEU:HD13	40:BO:95:ALA:N	1.96	0.80
41:BQ:25:ARG:HB2	41:BQ:74:ILE:HD11	1.64	0.80
1:AA:419:C:P	1:AA:541:G:C8	2.74	0.80
22:B0:531:C:H42	22:B0:563:G:H5''	1.47	0.80
22:B0:1491:A:O2'	22:B0:1493:A:H5'	1.80	0.80
48:BZ:54:ILE:HD13	48:BZ:54:ILE:H	1.47	0.80
22:B0:192:C:O2	28:BC:55:SER:HB2	1.80	0.80
1:AA:545:C:O2'	1:AA:548:G:O2'	1.98	0.80
1:AA:1322:C:H4'	1:AA:1323:G:C5'	2.12	0.80
22:B0:749:A:C2'	22:B0:750:A:H5'	2.12	0.80
33:BH:16:TYR:O	33:BH:54:ILE:HA	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BM:15:ARG:HG3	38:BM:18:LEU:HD22	1.62	0.80
45:BU:38:ARG:HA	45:BU:38:ARG:CZ	2.12	0.80
22:B0:840:C:H2'	22:B0:841:G:H8	1.47	0.79
29:BD:16:MET:HA	29:BD:20:ASN:HD22	1.46	0.79
32:BG:121:ILE:H	32:BG:121:ILE:HD13	1.47	0.79
1:AA:181:A:O2'	1:AA:182:A:H5'	1.81	0.79
2:AW:66:A:H4'	49:B1:4:ILE:HD13	1.64	0.79
13:AL:84:GLY:H	13:AL:94:TYR:HA	1.46	0.79
17:AP:35:ARG:H	17:AP:35:ARG:HD2	1.45	0.79
22:B0:960:A:C8	22:B0:2496:C:C5'	2.66	0.79
22:B0:2121:G:C4'	22:B0:2122:U:H5'	2.08	0.79
36:BK:5:LYS:H	36:BK:5:LYS:HD3	1.45	0.79
41:BQ:78:GLU:HG3	41:BQ:79:GLY:H	1.47	0.79
1:AA:979:C:C6	20:AS:5:LYS:HB2	2.16	0.79
22:B0:500:G:H4'	22:B0:503:A:H62	1.47	0.79
42:BR:36:LYS:HB3	42:BR:80:TRP:HA	1.62	0.79
45:BU:20:LEU:HD23	45:BU:20:LEU:H	1.47	0.79
13:AL:42:LYS:HG3	13:AL:44:PRO:HD2	1.63	0.79
22:B0:669:G:N3	28:BC:66:GLY:HA2	1.97	0.79
22:B0:1416:G:H8	26:BA:100:ARG:HH11	1.31	0.79
22:B0:1495:A:C2	26:BA:65:ASP:HB2	2.18	0.79
22:B0:1578:U:O2'	26:BA:65:ASP:C	2.21	0.79
22:B0:2319:G:H4'	22:B0:2320:U:O5'	1.82	0.79
25:B5:4:LYS:HA	25:B5:4:LYS:HE3	1.64	0.79
26:BA:62:ARG:HH21	26:BA:151:GLY:N	1.80	0.79
44:BT:44:HIS:HE1	44:BT:86:LEU:H	1.28	0.79
10:AI:112:ARG:HH12	10:AI:113:LYS:HE3	1.45	0.79
22:B0:163:C:H5'	22:B0:164:C:H5'	1.65	0.79
22:B0:1418:G:H2'	22:B0:1578:U:O4	1.81	0.79
22:B0:1500:A:H61	26:BA:156:SER:CA	1.95	0.79
22:B0:1815:A:H4'	22:B0:1816:C:H5''	1.64	0.79
41:BQ:7:HIS:CD2	41:BQ:103:ILE:HB	2.17	0.79
11:AJ:14:ASP:HB3	11:AJ:17:LEU:HG	1.63	0.79
19:AR:7:ARG:HD3	19:AR:7:ARG:H	1.47	0.79
22:B0:476:G:N2	22:B0:478:A:H3'	1.96	0.79
23:B9:89:U:H2'	23:B9:90:C:H5'	1.65	0.79
37:BL:50:PRO:O	37:BL:51:LEU:HB2	1.83	0.79
49:B1:9:LYS:H	49:B1:9:LYS:HD2	1.46	0.79
16:AO:13:GLU:HG3	16:AO:14:PHE:HD1	1.47	0.79
22:B0:1582:C:H2'	26:BA:96:LYS:CB	2.12	0.79
22:B0:2161:C:H4'	22:B0:2162:G:H4'	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2296:U:O4	22:B0:2334:U:H4'	1.83	0.79
22:B0:2547:A:H62	22:B0:2566:A:N6	1.81	0.79
29:BD:107:VAL:HG12	29:BD:110:ILE:HD11	1.65	0.79
33:BH:17:VAL:HG12	33:BH:55:ILE:H	1.44	0.79
6:AE:65:LYS:HE2	6:AE:65:LYS:HA	1.65	0.79
8:AG:28:ILE:HD13	8:AG:100:MET:HB3	1.62	0.79
20:AS:86:LYS:H	20:AS:86:LYS:HD3	1.48	0.79
22:B0:1495:A:H5''	26:BA:191:LEU:HB2	1.63	0.79
22:B0:1646:C:H5''	22:B0:1647:U:OP1	1.82	0.79
22:B0:2354:C:H4'	45:BU:20:LEU:HD13	1.65	0.79
33:BH:17:VAL:HG11	33:BH:55:ILE:HG22	1.65	0.79
49:B1:5:ARG:HA	49:B1:5:ARG:CZ	2.13	0.79
1:AA:21:G:H1'	1:AA:914:A:H61	1.48	0.79
1:AA:417:G:H2'	1:AA:541:G:OP1	1.83	0.79
1:AA:450:G:H4'	17:AP:15:PRO:HG3	1.64	0.79
20:AS:18:VAL:HG21	20:AS:43:MET:HG2	1.65	0.79
22:B0:663:G:H5''	28:BC:87:ALA:HB3	1.64	0.79
22:B0:1580:A:O4'	26:BA:68:ARG:HB3	1.82	0.79
22:B0:2320:U:H5'	22:B0:2321:U:C5	2.17	0.79
32:BG:3:LYS:HE2	32:BG:3:LYS:HA	1.65	0.79
36:BK:71:LYS:O	36:BK:93:VAL:HG12	1.83	0.79
1:AA:419:C:O4'	1:AA:541:G:O2'	2.01	0.78
22:B0:1494:A:OP1	26:BA:143:VAL:HG11	1.82	0.78
22:B0:1578:U:H5''	26:BA:101:ARG:CD	2.13	0.78
36:BK:14:LYS:HG3	36:BK:15:GLY:H	1.45	0.78
1:AA:1222:G:O4'	20:AS:1:PRO:HA	1.83	0.78
6:AE:155:LYS:HE2	9:AH:67:GLY:CA	2.11	0.78
10:AI:18:VAL:HG22	10:AI:64:ILE:HD12	1.65	0.78
22:B0:590:A:H3'	28:BC:47:LYS:HZ1	1.46	0.78
22:B0:596:U:H2'	22:B0:597:G:H8	1.47	0.78
24:B2:64:LEU:HB3	24:B2:65:PRO:HD2	1.63	0.78
32:BG:91:LYS:HD3	32:BG:91:LYS:H	1.48	0.78
1:AA:109:A:H1'	1:AA:327:A:H1'	1.64	0.78
3:AB:110:ILE:HD13	3:AB:147:LEU:HD13	1.63	0.78
29:BD:77:LYS:HA	29:BD:77:LYS:HE3	1.65	0.78
39:BN:87:ARG:HD3	39:BN:87:ARG:H	1.48	0.78
1:AA:702:A:H62	22:B0:1847:A:H3'	1.47	0.78
1:AA:979:C:H5''	20:AS:5:LYS:CG	2.13	0.78
22:B0:809:G:H22	28:BC:77:ILE:HD13	1.49	0.78
22:B0:1579:A:C2	26:BA:68:ARG:N	2.52	0.78
22:B0:2327:A:H2'	45:BU:10:ARG:CZ	2.14	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:159:LEU:HD12	28:BC:162:ARG:HD3	1.63	0.78
37:BL:113:ILE:H	37:BL:113:ILE:HD12	1.45	0.78
4:AC:63:ILE:HD12	4:AC:65:VAL:HG23	1.63	0.78
4:AC:99:GLN:HG3	4:AC:100:ILE:H	1.49	0.78
9:AH:17:GLN:HE22	9:AH:71:VAL:HB	1.49	0.78
27:BB:53:GLY:HA2	27:BB:60:VAL:HG21	1.63	0.78
32:BG:108:ILE:HD13	32:BG:108:ILE:H	1.47	0.78
33:BH:36:LEU:HD12	33:BH:51:GLY:HA2	1.64	0.78
39:BN:88:ARG:HH11	39:BN:88:ARG:N	1.81	0.78
42:BR:62:VAL:HA	42:BR:81:LYS:HB3	1.63	0.78
1:AA:1235:U:C2'	1:AA:1236:A:H5''	2.14	0.78
22:B0:495:G:N7	41:BQ:6:LYS:HD3	1.99	0.78
26:BA:149:LYS:HG3	26:BA:150:GLY:H	1.47	0.78
3:AB:23:ASN:HD22	3:AB:24:PRO:HD2	1.49	0.78
22:B0:276:U:O2	22:B0:362:A:H3'	1.84	0.78
22:B0:668:A:H3'	22:B0:670:A:N6	1.98	0.78
22:B0:942:G:H2'	22:B0:943:A:H5'	1.63	0.78
22:B0:1061:U:H1'	22:B0:1070:A:H1'	1.65	0.78
22:B0:2263:C:H6	45:BU:11:ASN:N	1.82	0.78
28:BC:5:LEU:HD22	28:BC:15:SER:HB2	1.65	0.78
28:BC:36:ALA:N	35:BJ:18:ARG:HD3	1.99	0.78
36:BK:73:ILE:HG13	36:BK:90:GLU:HB3	1.64	0.78
37:BL:90:ARG:HA	37:BL:90:ARG:HH11	1.47	0.78
1:AA:150:U:H3	1:AA:171:A:H62	1.32	0.78
14:AM:94:LEU:HB3	14:AM:95:PRO:HD2	1.66	0.78
22:B0:1246:A:H5''	35:BJ:25:SER:C	2.04	0.78
22:B0:1992:G:N1	27:BB:138:LEU:HD11	1.99	0.78
22:B0:2266:A:H1'	22:B0:2272:U:H3	1.47	0.78
28:BC:118:LEU:HD13	28:BC:186:VAL:HG13	1.65	0.78
1:AA:1053:G:O6	1:AA:1199:U:H2'	1.84	0.78
1:AA:1064:G:H5''	1:AA:1065:U:OP1	1.83	0.78
5:AD:120:LYS:HE2	5:AD:128:VAL:HG21	1.64	0.78
8:AG:26:VAL:O	8:AG:30:MET:HB2	1.82	0.78
19:AR:58:ILE:HG22	19:AR:62:ARG:HH11	1.49	0.78
22:B0:493:G:H8	41:BQ:10:ALA:H	1.31	0.78
22:B0:1607:C:O2	22:B0:1607:C:H2'	1.84	0.78
27:BB:34:VAL:HG21	27:BB:85:ALA:HB3	1.66	0.78
29:BD:116:LEU:HD23	29:BD:116:LEU:H	1.46	0.78
35:BJ:92:LEU:H	35:BJ:92:LEU:HD13	1.47	0.78
41:BQ:84:ARG:HB3	41:BQ:96:ILE:HB	1.63	0.78
1:AA:817:C:H1'	1:AA:819:A:OP2	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:105:ARG:HG2	10:AI:106:ASP:H	1.49	0.78
22:B0:58:G:OP1	42:BR:77:ARG:HA	1.83	0.78
22:B0:659:G:O4'	28:BC:98:LYS:HG3	1.83	0.78
22:B0:1494:A:OP2	26:BA:143:VAL:HB	1.84	0.78
22:B0:1828:G:H4'	22:B0:1829:A:C5'	2.13	0.78
22:B0:2136:G:H3'	22:B0:2136:G:N3	1.99	0.78
24:B2:22:ILE:HG23	24:B2:188:LEU:HD23	1.66	0.78
26:BA:77:VAL:HG13	26:BA:92:LEU:H	1.48	0.78
33:BH:36:LEU:H	33:BH:36:LEU:HD22	1.48	0.78
6:AE:87:VAL:HG12	6:AE:92:ARG:HG3	1.66	0.77
22:B0:481:G:H4'	22:B0:506:G:H21	1.48	0.77
22:B0:1197:G:C2	22:B0:1250:G:H1'	2.19	0.77
39:BN:50:ARG:HE	39:BN:100:ARG:NH2	1.80	0.77
1:AA:1339:A:C2	2:AV:31:A:H4'	2.20	0.77
1:AA:1422:G:H5'	34:BI:48:PRO:HG2	1.67	0.77
22:B0:481:G:H21	22:B0:506:G:H4'	1.48	0.77
22:B0:855:G:H1	22:B0:922:C:H42	1.30	0.77
22:B0:960:A:O4'	22:B0:2496:C:H5''	1.82	0.77
22:B0:1698:A:H5''	22:B0:1699:G:OP1	1.83	0.77
22:B0:2049:G:H2'	22:B0:2050:C:C6	2.19	0.77
24:B2:76:VAL:HG11	24:B2:86:ALA:HB1	1.66	0.77
28:BC:90:GLN:HG2	35:BJ:27:LEU:HB2	1.66	0.77
34:BI:38:ILE:H	34:BI:38:ILE:HD13	1.47	0.77
49:B1:32:LYS:HA	49:B1:32:LYS:NZ	1.98	0.77
22:B0:1779:U:H5''	22:B0:1780:A:H5'	1.65	0.77
22:B0:2357:G:H5''	22:B0:2358:A:OP1	1.84	0.77
25:B5:57:ILE:HG12	25:B5:120:LYS:HZ3	1.48	0.77
27:BB:13:ARG:HD3	39:BN:10:GLU:HG3	1.66	0.77
27:BB:137:SER:O	27:BB:139:SER:N	2.17	0.77
33:BH:54:ILE:HG12	33:BH:122:LEU:CB	2.14	0.77
41:BQ:25:ARG:CZ	41:BQ:26:GLY:H	1.97	0.77
8:AG:29:LEU:HD23	8:AG:42:VAL:HG22	1.65	0.77
22:B0:802:A:OP2	28:BC:62:GLN:HB2	1.83	0.77
22:B0:2553:G:H3'	22:B0:2554:U:H5''	1.66	0.77
22:B0:2609:U:H2'	22:B0:2610:C:H5'	1.64	0.77
1:AA:1222:G:C1'	20:AS:1:PRO:HA	2.14	0.77
4:AC:130:ARG:HE	6:AE:53:ARG:HD3	1.48	0.77
22:B0:150:U:H4'	22:B0:1359:A:H4'	1.66	0.77
22:B0:1083:U:C2'	25:B3:81:LYS:HE2	2.15	0.77
22:B0:1583:G:C5	26:BA:96:LYS:HE2	2.20	0.77
33:BH:72:LYS:HA	33:BH:72:LYS:NZ	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:111:LYS:HA	33:BH:111:LYS:HZ3	1.48	0.77
35:BJ:41:ARG:CZ	35:BJ:41:ARG:HA	2.14	0.77
1:AA:975:A:H4'	1:AA:976:G:H5''	1.66	0.77
21:AT:8:LYS:HG3	21:AT:12:GLN:HE21	1.48	0.77
22:B0:269:C:H42	22:B0:370:G:H1	1.31	0.77
22:B0:800:A:H5''	22:B0:801:G:OP1	1.85	0.77
22:B0:2478:A:H2'	22:B0:2529:G:N7	2.00	0.77
26:BA:149:LYS:CG	26:BA:150:GLY:H	1.98	0.77
35:BJ:55:MET:H	35:BJ:56:PRO:HA	1.48	0.77
39:BN:36:LYS:HD3	39:BN:37:LYS:HG3	1.67	0.77
22:B0:311:A:O2'	22:B0:331:C:H3'	1.85	0.77
22:B0:828:U:O2	22:B0:828:U:H2'	1.82	0.77
22:B0:1646:C:H4'	22:B0:1647:U:O5'	1.83	0.77
26:BA:63:ILE:H	26:BA:63:ILE:HD12	1.49	0.77
27:BB:81:GLU:O	27:BB:82:PHE:HB2	1.83	0.77
39:BN:62:LYS:HA	39:BN:62:LYS:NZ	1.99	0.77
39:BN:88:ARG:N	39:BN:88:ARG:HD3	2.00	0.77
1:AA:933:G:C2	10:AI:128:LYS:HB2	2.20	0.77
1:AA:1237:C:H2'	1:AA:1334:G:H1'	1.65	0.77
22:B0:123:G:H4'	22:B0:1376:C:H5'	1.66	0.77
22:B0:532:A:H5'	22:B0:561:G:N2	1.99	0.77
22:B0:1047:G:H2'	22:B0:1110:G:H22	1.47	0.77
22:B0:1815:A:H4'	22:B0:1816:C:C5'	2.14	0.77
22:B0:2240:U:H2'	22:B0:2241:A:C8	2.19	0.77
25:B3:42:ALA:O	25:B3:45:VAL:HG13	1.85	0.77
41:BQ:87:PRO:HA	41:BQ:88:ARG:HH21	1.49	0.77
1:AA:481:G:H4'	1:AA:482:A:OP1	1.83	0.77
7:AF:18:VAL:HB	7:AF:19:PRO:HD3	1.65	0.77
22:B0:791:C:O2'	22:B0:792:A:H5''	1.85	0.77
22:B0:2179:C:C3'	22:B0:2180:U:H3'	2.15	0.77
22:B0:2728:U:H2'	22:B0:2729:G:H8	1.49	0.77
35:BJ:39:LYS:HE3	35:BJ:39:LYS:N	1.99	0.77
35:BJ:77:ILE:HG23	35:BJ:111:ILE:HD11	1.66	0.77
1:AA:1452:C:H4'	1:AA:1453:G:H5''	1.67	0.77
22:B0:1495:A:H3'	26:BA:190:THR:CA	2.16	0.77
22:B0:1972:G:H2'	22:B0:1973:G:H8	1.50	0.77
49:B1:36:LYS:H	49:B1:36:LYS:HE3	1.50	0.77
22:B0:629:G:H4'	22:B0:638:G:H21	1.50	0.76
2:AW:36:A:C2'	2:AW:37:G:H5''	2.14	0.76
7:AF:39:LEU:HD23	7:AF:62:MET:HG2	1.66	0.76
22:B0:532:A:H5''	22:B0:533:G:OP2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:535:G:H1'	40:BO:52:ARG:HG3	1.66	0.76
26:BA:115:ILE:HD13	26:BA:115:ILE:H	1.50	0.76
2:AU:16:U:H4'	2:AU:18:G:OP2	1.85	0.76
17:AP:20:VAL:HG11	17:AP:32:PHE:HB2	1.67	0.76
22:B0:1996:C:C4	27:BB:138:LEU:CG	2.54	0.76
22:B0:2816:G:H4'	48:BZ:51:ARG:HH21	1.48	0.76
22:B0:475:C:H4'	22:B0:510:C:H5'	1.68	0.76
22:B0:959:A:N3	36:BK:79:ALA:HB1	2.00	0.76
22:B0:1421:G:C2	26:BA:149:LYS:HG2	2.21	0.76
27:BB:24:VAL:HG11	27:BB:188:LEU:HB3	1.65	0.76
37:BL:10:LEU:O	37:BL:10:LEU:HD22	1.85	0.76
37:BL:83:LEU:H	37:BL:86:ARG:HD3	1.48	0.76
39:BN:10:GLU:CG	39:BN:11:GLN:H	1.99	0.76
39:BN:47:ILE:HG22	39:BN:48:ALA:H	1.50	0.76
43:BS:90:LYS:HA	43:BS:90:LYS:HE3	1.65	0.76
1:AA:274:A:H4'	1:AA:275:G:O5'	1.85	0.76
22:B0:993:G:H5''	40:BO:49:ARG:NH1	2.00	0.76
22:B0:2124:G:C2'	22:B0:2125:G:H5''	2.13	0.76
29:BD:43:ILE:H	29:BD:43:ILE:HD12	1.49	0.76
31:BF:26:ALA:HA	31:BF:30:LEU:HD13	1.66	0.76
33:BH:36:LEU:HD12	33:BH:52:ASP:H	1.51	0.76
39:BN:63:ILE:HD11	39:BN:74:GLN:HE21	1.50	0.76
1:AA:189:A:H2'	1:AA:190:A:O4'	1.84	0.76
2:AW:20:G:H21	2:AW:22:G:H5'	1.50	0.76
22:B0:960:A:N6	22:B0:2250:G:O2'	2.17	0.76
22:B0:1416:G:N2	26:BA:94:LEU:HD13	2.00	0.76
22:B0:2515:C:N4	27:BB:152:PRO:HB2	2.01	0.76
39:BN:10:GLU:HG2	39:BN:11:GLN:N	2.00	0.76
40:BO:54:ARG:H	40:BO:57:ARG:HG3	1.49	0.76
41:BQ:45:VAL:HA	41:BQ:48:LYS:HG2	1.66	0.76
2:AV:36:A:C2'	2:AV:37:G:H5''	2.16	0.76
9:AH:9:MET:HG3	9:AH:26:MET:HG3	1.67	0.76
22:B0:119:A:H4'	22:B0:120:U:H3'	1.68	0.76
22:B0:800:A:O2'	22:B0:801:G:H5''	1.85	0.76
22:B0:1388:G:H4'	22:B0:1524:C:O2'	1.86	0.76
22:B0:2128:G:P	22:B0:2165:C:H2'	2.25	0.76
22:B0:2677:G:N3	27:BB:125:TRP:HE3	1.84	0.76
28:BC:88:ARG:NE	35:BJ:29:LYS:O	2.18	0.76
1:AA:176:C:H2'	1:AA:177:G:H8	1.50	0.76
13:AL:79:ILE:HD13	13:AL:80:LEU:H	1.49	0.76
22:B0:2137:U:O2	22:B0:2137:U:H2'	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2472:G:H2'	22:B0:2475:C:N4	2.01	0.76
22:B0:2678:C:H5'	27:BB:124:ARG:NE	2.01	0.76
24:B2:170:ILE:HD13	24:B2:171:HIS:N	2.01	0.76
35:BJ:39:LYS:HZ2	35:BJ:41:ARG:HG2	1.51	0.76
2:AW:16:U:H5''	2:AW:17:U:OP1	1.85	0.76
22:B0:2076:U:H5''	22:B0:2238:G:H1	1.50	0.76
22:B0:2382:G:H5''	22:B0:2383:G:C5'	2.16	0.76
1:AA:345:C:H4'	1:AA:346:G:H5''	1.67	0.76
17:AP:9:HIS:CE1	17:AP:18:GLN:HB2	2.21	0.76
21:AT:17:ARG:HA	21:AT:20:ASN:HD21	1.51	0.76
22:B0:65:U:H5''	42:BR:74:ILE:HG12	1.67	0.76
22:B0:588:U:C2	28:BC:74:LYS:HA	2.20	0.76
22:B0:960:A:H8	22:B0:2496:C:OP2	1.68	0.76
22:B0:960:A:C3'	22:B0:2496:C:H5''	2.16	0.76
22:B0:1128:G:N3	22:B0:2517:C:H4'	2.00	0.76
22:B0:1491:A:H5''	26:BA:153:LEU:HD21	1.68	0.76
22:B0:1668:A:N6	22:B0:1676:A:H61	1.84	0.76
22:B0:2450:A:H5''	22:B0:2497:A:H62	1.51	0.76
33:BH:55:ILE:HD13	33:BH:56:VAL:H	1.49	0.76
40:BO:53:LYS:HA	40:BO:53:LYS:HE3	1.65	0.76
1:AA:1064:G:H4'	1:AA:1065:U:H4'	1.66	0.75
22:B0:301:G:H1'	22:B0:302:C:H5'	1.67	0.75
22:B0:860:U:H2'	22:B0:861:A:H8	1.49	0.75
22:B0:1512:C:H2'	22:B0:1513:C:H5''	1.65	0.75
22:B0:2391:G:H1'	22:B0:2429:G:N2	2.01	0.75
26:BA:144:GLU:HG2	26:BA:151:GLY:N	2.01	0.75
39:BN:92:ARG:CZ	39:BN:92:ARG:HA	2.15	0.75
46:BW:31:GLN:HG2	46:BW:38:GLN:CD	2.07	0.75
22:B0:2243:U:H5'	22:B0:2244:U:OP1	1.86	0.75
32:BG:9:LYS:HA	32:BG:9:LYS:HE3	1.69	0.75
22:B0:27:G:N2	22:B0:512:G:H2'	2.01	0.75
22:B0:658:U:H2'	28:BC:98:LYS:CG	2.15	0.75
22:B0:1609:A:H1'	22:B0:1616:A:C1'	2.16	0.75
22:B0:2543:G:N2	22:B0:2646:C:H4'	2.01	0.75
28:BC:92:HIS:N	35:BJ:29:LYS:H	1.84	0.75
32:BG:133:ARG:HA	32:BG:133:ARG:NE	2.00	0.75
35:BJ:38:GLN:O	35:BJ:39:LYS:HB3	1.84	0.75
39:BN:20:ARG:HB3	39:BN:25:VAL:HG11	1.68	0.75
1:AA:1344:C:H4'	10:AI:119:LYS:NZ	2.01	0.75
1:AA:1368:A:OP2	10:AI:115:VAL:HG13	1.87	0.75
5:AD:53:GLN:HB3	5:AD:202:LEU:HB2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2123:G:H4'	22:B0:2124:G:O4'	1.86	0.75
37:BL:97:ILE:HD13	37:BL:98:LEU:N	2.02	0.75
39:BN:30:TRP:HE1	39:BN:82:SER:HA	1.51	0.75
39:BN:50:ARG:NE	39:BN:100:ARG:HH21	1.82	0.75
4:AC:63:ILE:HD13	4:AC:64:ARG:N	2.01	0.75
4:AC:188:ALA:HB3	4:AC:195:ILE:HG23	1.69	0.75
11:AJ:8:ILE:HG12	11:AJ:100:ILE:HG22	1.69	0.75
22:B0:226:A:H61	22:B0:409:G:H21	1.32	0.75
22:B0:627:A:H4'	22:B0:628:G:OP1	1.84	0.75
22:B0:1408:G:N2	22:B0:1594:U:H3	1.84	0.75
22:B0:1582:C:H1'	26:BA:97:ASP:HB3	1.67	0.75
23:B9:56:G:H4'	23:B9:57:A:H8	1.51	0.75
27:BB:13:ARG:HE	27:BB:13:ARG:C	1.90	0.75
1:AA:419:C:O4'	1:AA:541:G:O4'	1.87	0.75
1:AA:1344:C:H5''	10:AI:119:LYS:HE2	1.67	0.75
22:B0:603:A:H4'	22:B0:604:G:O4'	1.87	0.75
22:B0:617:G:H3'	22:B0:617:G:N3	2.02	0.75
22:B0:1607:C:O2'	22:B0:1608:A:H5''	1.86	0.75
30:BE:118:ALA:HB3	30:BE:139:VAL:HG11	1.69	0.75
1:AA:80:A:H3'	1:AA:81:A:H5''	1.69	0.75
1:AA:404:G:H3'	1:AA:546:A:O2'	1.87	0.75
1:AA:1317:C:C2	20:AS:8:PRO:HG3	2.20	0.75
2:AU:20:G:H21	2:AU:22:G:H5'	1.51	0.75
5:AD:7:LYS:HB3	5:AD:20:LEU:HG	1.69	0.75
8:AG:149:ALA:HB2	12:AK:60:PHE:CB	2.15	0.75
22:B0:978:G:O2'	22:B0:1002:G:H4'	1.87	0.75
22:B0:1578:U:H2'	26:BA:66:PHE:HB2	1.69	0.75
22:B0:1931:U:H2'	22:B0:1931:U:O2	1.86	0.75
41:BQ:47:VAL:HG23	41:BQ:103:ILE:HG21	1.68	0.75
1:AA:605:U:H2'	1:AA:606:G:O4'	1.87	0.75
17:AP:9:HIS:HE1	17:AP:18:GLN:HB2	1.52	0.75
22:B0:19:A:OP1	40:BO:29:ARG:HG2	1.87	0.75
22:B0:661:A:O2'	28:BC:95:LYS:HA	1.86	0.75
22:B0:1002:G:H1	22:B0:1153:C:H42	1.35	0.75
22:B0:2263:C:C4'	45:BU:9:THR:HB	2.16	0.75
26:BA:152:GLN:HA	26:BA:155:ARG:HE	1.52	0.75
32:BG:133:ARG:HG3	32:BG:137:LEU:HB3	1.68	0.75
1:AA:1196:A:OP1	1:AA:1197:A:H5'	1.87	0.75
1:AA:1499:A:H1'	1:AA:1520:C:H4'	1.68	0.75
9:AH:76:ARG:HB2	9:AH:79:ARG:HE	1.52	0.75
17:AP:4:ILE:HG12	17:AP:21:VAL:HG22	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1300:G:H4'	22:B0:1301:A:O5'	1.86	0.75
28:BC:105:LEU:O	28:BC:109:LEU:HD13	1.87	0.75
1:AA:888:G:H5''	1:AA:1488:G:O2'	1.87	0.74
26:BA:97:ASP:CG	26:BA:98:GLY:N	2.37	0.74
28:BC:149:ILE:HG22	28:BC:150:THR:HG22	1.69	0.74
1:AA:60:A:N6	1:AA:108:G:H4'	2.02	0.74
1:AA:968:A:H5''	1:AA:969:A:OP2	1.86	0.74
10:AI:54:VAL:HG23	10:AI:56:MET:HG2	1.68	0.74
22:B0:1580:A:O5'	26:BA:68:ARG:HB2	1.87	0.74
22:B0:2678:C:H5''	27:BB:124:ARG:CB	2.15	0.74
25:B3:46:GLU:HG3	25:B5:18:ASP:OD2	1.87	0.74
28:BC:36:ALA:HA	35:BJ:18:ARG:CZ	2.17	0.74
33:BH:41:LYS:HD3	33:BH:43:GLU:H	1.51	0.74
37:BL:28:LEU:HD13	37:BL:45:ARG:HH22	1.51	0.74
1:AA:104:G:H3'	21:AT:4:LYS:NZ	2.02	0.74
1:AA:887:G:O2'	1:AA:1489:G:H4'	1.88	0.74
3:AB:16:GLY:HA3	3:AB:39:ILE:HA	1.69	0.74
16:AO:47:LYS:HE2	16:AO:47:LYS:HA	1.68	0.74
22:B0:669:G:N2	28:BC:74:LYS:HB3	2.02	0.74
22:B0:1313:U:O2	22:B0:1313:U:H2'	1.86	0.74
24:B2:36:LYS:HE2	24:B2:36:LYS:HA	1.67	0.74
25:B5:3:THR:HG22	25:B5:5:ASP:H	1.51	0.74
22:B0:479:A:H2'	22:B0:480:A:C4'	2.18	0.74
22:B0:1322:A:H61	22:B0:1333:G:N2	1.84	0.74
22:B0:2591:C:H2'	22:B0:2592:G:C8	2.23	0.74
30:BE:120:ILE:HD13	30:BE:120:ILE:H	1.51	0.74
37:BL:96:ARG:H	37:BL:96:ARG:NE	1.84	0.74
42:BR:93:LEU:HD21	42:BR:96:VAL:HB	1.68	0.74
5:AD:33:ILE:HD11	5:AD:35:GLN:NE2	2.03	0.74
14:AM:92:ARG:HH11	14:AM:96:VAL:HG12	1.51	0.74
22:B0:2614:A:H5''	22:B0:2615:U:OP1	1.87	0.74
26:BA:142:ASN:HB3	26:BA:190:THR:OG1	1.88	0.74
27:BB:12:THR:HB	39:BN:7:LEU:HG	1.70	0.74
29:BD:63:LYS:H	29:BD:63:LYS:HD3	1.49	0.74
39:BN:96:LEU:O	39:BN:97:TYR:HB3	1.87	0.74
1:AA:1222:G:OP2	20:AS:2:ARG:HB2	1.85	0.74
22:B0:121:G:H4'	22:B0:149:A:C5'	2.18	0.74
22:B0:751:A:H5''	22:B0:752:A:OP1	1.88	0.74
22:B0:800:A:H3'	28:BC:57:LYS:CB	2.12	0.74
22:B0:1568:G:H5''	22:B0:1569:A:O5'	1.87	0.74
25:B3:73:ARG:HE	25:B3:80:LEU:HA	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:15:LYS:HZ2	40:BO:15:LYS:HA	1.53	0.74
41:BQ:18:ARG:HG2	41:BQ:19:LEU:N	2.02	0.74
1:AA:687:A:H4'	1:AA:688:G:O5'	1.88	0.74
1:AA:1117:A:N6	1:AA:1156:G:H22	1.85	0.74
22:B0:1828:G:C4'	22:B0:1829:A:H5'	2.18	0.74
22:B0:2678:C:C5'	27:BB:125:TRP:H	2.00	0.74
26:BA:171:VAL:HG22	26:BA:172:THR:H	1.52	0.74
1:AA:978:A:H3'	20:AS:5:LYS:HA	1.70	0.74
1:AA:1346:A:O2'	1:AA:1347:G:OP2	2.04	0.74
22:B0:527:C:H5''	22:B0:528:A:OP1	1.88	0.74
22:B0:600:G:N3	28:BC:99:LYS:HG2	2.02	0.74
22:B0:617:G:H5''	22:B0:618:G:N7	2.02	0.74
22:B0:738:G:H2'	22:B0:739:A:O4'	1.87	0.74
22:B0:2108:A:H2'	22:B0:2109:U:O4'	1.87	0.74
26:BA:65:ASP:OD1	26:BA:128:THR:HB	1.88	0.74
42:BR:50:LEU:HD13	46:BW:26:PHE:CE2	2.23	0.74
42:BR:68:LYS:HA	42:BR:68:LYS:NZ	2.03	0.74
1:AA:780:A:H5''	12:AK:124:LYS:HE2	1.70	0.74
1:AA:1194:U:H5''	6:AE:25:LYS:CD	2.17	0.74
1:AA:1405:G:H1'	1:AA:1518:A:O2'	1.87	0.74
1:AA:1413:A:H2	1:AA:1487:G:H22	1.35	0.74
2:AU:36:A:C2'	2:AU:37:G:H5''	2.15	0.74
4:AC:66:THR:HG22	4:AC:101:ASN:HD22	1.52	0.74
21:AT:54:GLN:HB3	21:AT:55:PRO:HD3	1.70	0.74
22:B0:581:C:H5''	40:BO:31:TYR:HE2	1.52	0.74
22:B0:960:A:C8	22:B0:2496:C:P	2.79	0.74
22:B0:1493:A:N3	26:BA:171:VAL:HG12	2.02	0.74
25:B3:46:GLU:O	25:B5:15:SER:HB3	1.88	0.74
25:B5:22:LEU:O	25:B5:26:MET:HG2	1.88	0.74
33:BH:68:LYS:HA	33:BH:68:LYS:HZ2	1.50	0.74
42:BR:49:LYS:HD2	42:BR:50:LEU:HD12	1.70	0.74
29:BD:16:MET:HA	29:BD:20:ASN:ND2	2.01	0.74
1:AA:188:C:C2	1:AA:189:A:H1'	2.23	0.73
1:AA:1221:G:H2'	20:AS:1:PRO:N	2.02	0.73
4:AC:149:LYS:HD3	4:AC:168:ARG:HD2	1.68	0.73
22:B0:685:A:H1'	22:B0:687:C:H41	1.53	0.73
22:B0:960:A:H5'	22:B0:2495:G:H2'	1.70	0.73
22:B0:1421:G:C5	26:BA:149:LYS:HA	2.19	0.73
22:B0:1423:A:H2'	22:B0:1424:G:C8	2.23	0.73
22:B0:1456:G:H1	22:B0:2703:C:N4	1.86	0.73
22:B0:1939:U:H4'	22:B0:2592:G:H5'	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2788:C:H2'	22:B0:2891:A:N6	2.03	0.73
40:BO:59:LEU:HG	40:BO:63:ARG:HB2	1.69	0.73
6:AE:92:ARG:HB3	6:AE:127:TYR:HB2	1.70	0.73
22:B0:699:A:H4'	22:B0:1634:A:H61	1.53	0.73
22:B0:2892:G:H5'	33:BH:6:ALA:HA	1.69	0.73
26:BA:154:ALA:HB1	26:BA:159:THR:CG2	2.18	0.73
26:BA:158:GLY:H	26:BA:194:VAL:CB	2.01	0.73
28:BC:112:LEU:HA	28:BC:118:LEU:HD21	1.69	0.73
42:BR:92:ASN:C	42:BR:93:LEU:HD13	2.07	0.73
1:AA:344:A:H5''	1:AA:345:C:H5	1.52	0.73
22:B0:749:A:H4'	22:B0:1615:C:H42	1.53	0.73
22:B0:990:A:OP1	22:B0:1157:G:H4'	1.87	0.73
22:B0:2075:U:OP2	22:B0:2238:G:H2'	1.88	0.73
27:BB:172:VAL:HG13	27:BB:175:LEU:HD11	1.70	0.73
35:BJ:118:THR:HG23	35:BJ:119:PRO:CA	2.18	0.73
41:BQ:27:LYS:HD3	41:BQ:27:LYS:N	2.02	0.73
1:AA:912:C:C2'	1:AA:913:A:H5'	2.18	0.73
22:B0:1019:U:H3	22:B0:1142:A:N6	1.86	0.73
22:B0:2072:C:N4	22:B0:2437:G:H1	1.86	0.73
22:B0:2382:G:H5''	22:B0:2383:G:H5'	1.70	0.73
28:BC:146:VAL:HA	28:BC:149:ILE:HD13	1.69	0.73
32:BG:77:VAL:HG23	32:BG:78:LEU:HD23	1.69	0.73
40:BO:63:ARG:NH1	40:BO:63:ARG:HB3	2.02	0.73
42:BR:25:GLU:HG3	42:BR:26:LYS:N	2.03	0.73
1:AA:279:A:H5'	1:AA:281:G:O4'	1.87	0.73
1:AA:763:G:H1'	16:AO:53:ARG:HD3	1.70	0.73
1:AA:1157:A:H4'	1:AA:1158:C:O5'	1.87	0.73
9:AH:86:LYS:HD2	9:AH:91:LEU:HA	1.69	0.73
10:AI:114:LYS:H	10:AI:120:ALA:CB	2.01	0.73
22:B0:215:G:C4'	22:B0:216:A:H4'	2.18	0.73
22:B0:589:U:OP1	28:BC:44:ARG:N	2.22	0.73
22:B0:756:A:H4'	22:B0:1660:G:OP1	1.88	0.73
22:B0:1580:A:OP2	26:BA:68:ARG:HD3	1.88	0.73
22:B0:2319:G:H5''	22:B0:2320:U:OP1	1.88	0.73
27:BB:137:SER:C	27:BB:139:SER:H	1.91	0.73
37:BL:90:ARG:HA	37:BL:90:ARG:NH1	2.03	0.73
40:BO:43:GLN:C	40:BO:45:ALA:H	1.90	0.73
1:AA:481:G:O2'	1:AA:482:A:O5'	2.07	0.73
1:AA:1201:A:O2'	1:AA:1202:U:H5''	1.89	0.73
1:AA:1371:G:H2'	1:AA:1372:U:C6	2.24	0.73
22:B0:508:A:H4'	22:B0:509:C:O5'	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1937:A:O2'	22:B0:1938:A:OP1	2.07	0.73
22:B0:2365:G:H5''	45:BU:38:ARG:HH21	1.53	0.73
22:B0:2725:A:OP1	27:BB:141:ARG:HD2	1.89	0.73
9:AH:102:VAL:HG22	9:AH:125:ILE:HD12	1.69	0.73
21:AT:84:LYS:HE3	21:AT:84:LYS:HA	1.70	0.73
22:B0:588:U:C4	28:BC:82:GLY:HA2	2.24	0.73
22:B0:799:G:H3'	28:BC:57:LYS:CB	2.17	0.73
22:B0:2176:A:O3'	24:B2:167:ASN:N	2.21	0.73
22:B0:2597:G:H2'	22:B0:2598:A:C8	2.23	0.73
41:BQ:33:LEU:HD12	41:BQ:34:ASP:N	2.04	0.73
41:BQ:35:ILE:O	41:BQ:36:LEU:HB3	1.86	0.73
45:BU:40:ARG:NH1	45:BU:40:ARG:HB2	2.03	0.73
1:AA:419:C:C1'	5:AD:39:GLN:HB2	2.11	0.73
1:AA:666:G:H4'	1:AA:731:G:N2	2.04	0.73
1:AA:1501:C:H2'	1:AA:1504:G:O6	1.88	0.73
22:B0:610:C:H2'	22:B0:611:C:C5	2.24	0.73
22:B0:1043:C:C2'	22:B0:1044:C:H5''	2.18	0.73
22:B0:1060:U:H4'	22:B0:1061:U:O5'	1.87	0.73
22:B0:1929:G:H5''	22:B0:1930:G:OP1	1.88	0.73
22:B0:2116:G:OP2	22:B0:2117:A:H5'	1.89	0.73
22:B0:2163:G:N2	22:B0:2164:C:H2'	2.04	0.73
25:B3:51:LYS:HA	25:B3:52:THR:HA	1.69	0.73
26:BA:62:ARG:HH22	26:BA:149:LYS:HZ3	1.35	0.73
26:BA:154:ALA:HB1	26:BA:159:THR:HG21	1.68	0.73
28:BC:44:ARG:HA	28:BC:89:PRO:C	2.09	0.73
30:BE:5:LYS:HG2	30:BE:52:GLY:HA3	1.70	0.73
40:BO:51:GLN:HE21	40:BO:55:GLN:HB2	1.52	0.73
46:BW:28:LEU:O	46:BW:30:MET:HG3	1.89	0.73
12:AK:66:ALA:HB2	12:AK:95:THR:HG23	1.71	0.73
22:B0:310:A:H2'	22:B0:312:G:OP2	1.89	0.73
22:B0:571:U:H4'	22:B0:572:A:OP1	1.88	0.73
22:B0:799:G:P	28:BC:57:LYS:HG3	2.29	0.73
22:B0:1655:A:H2'	22:B0:1656:C:O4'	1.87	0.73
22:B0:2320:U:H2'	22:B0:2320:U:O2	1.86	0.73
22:B0:2897:U:H2'	33:BH:15:TRP:O	1.88	0.73
27:BB:27:ILE:HG21	27:BB:201:LEU:HD11	1.70	0.73
33:BH:22:GLY:O	33:BH:23:LYS:HB3	1.89	0.73
7:AF:12:PRO:HD3	7:AF:57:ALA:HA	1.70	0.73
22:B0:478:A:H5'	43:BS:30:SER:HB3	1.70	0.73
22:B0:639:U:H2'	22:B0:640:C:C6	2.24	0.73
22:B0:1996:C:O2'	22:B0:1997:C:O5'	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2756:U:H5'	22:B0:2757:A:OP1	1.88	0.73
25:B3:16:VAL:HG23	25:B5:13:ALA:HA	1.69	0.73
36:BK:7:THR:HG23	36:BK:8:LYS:H	1.54	0.73
47:BX:12:ALA:HA	47:BX:15:ARG:NE	2.03	0.73
1:AA:449:G:O2'	1:AA:450:G:O5'	2.02	0.72
1:AA:1381:U:O2	8:AG:77:ARG:HA	1.89	0.72
6:AE:155:LYS:HB3	9:AH:68:LYS:NZ	2.04	0.72
14:AM:16:ILE:HD13	14:AM:16:ILE:O	1.89	0.72
22:B0:2138:G:H22	22:B0:2158:A:H62	1.34	0.72
22:B0:2328:A:H2'	22:B0:2329:U:C6	2.23	0.72
24:B2:114:ILE:HD13	24:B2:143:THR:HG23	1.71	0.72
28:BC:176:ASP:O	28:BC:180:LEU:HD23	1.89	0.72
40:BO:97:ILE:HD12	40:BO:98:ALA:N	2.04	0.72
1:AA:531:U:H4'	1:AA:532:A:H5'	1.71	0.72
1:AA:716:A:O2'	12:AK:119:GLY:HA2	1.89	0.72
4:AC:184:ASN:ND2	4:AC:199:VAL:HB	1.98	0.72
22:B0:834:G:H21	22:B0:2358:A:N6	1.86	0.72
26:BA:53:ILE:HD13	26:BA:54:GLY:N	2.03	0.72
36:BK:7:THR:HG23	36:BK:8:LYS:N	2.04	0.72
40:BO:15:LYS:HA	40:BO:18:LYS:HE3	1.71	0.72
40:BO:102:LYS:N	40:BO:102:LYS:HE3	2.04	0.72
1:AA:251:G:H4'	1:AA:252:U:O5'	1.90	0.72
9:AH:13:ILE:HD12	9:AH:60:LEU:HD23	1.72	0.72
22:B0:960:A:H3'	22:B0:2496:C:H3'	1.69	0.72
22:B0:1568:G:H4'	22:B0:1569:A:OP2	1.87	0.72
22:B0:2127:G:H3'	22:B0:2166:U:H5'	1.70	0.72
22:B0:2128:G:C4'	22:B0:2165:C:H3'	2.18	0.72
22:B0:2472:G:H2'	22:B0:2475:C:H42	1.51	0.72
27:BB:193:VAL:HG11	27:BB:201:LEU:HD22	1.72	0.72
28:BC:110:SER:O	28:BC:113:VAL:HG22	1.89	0.72
40:BO:27:ARG:NE	40:BO:33:VAL:HB	2.01	0.72
1:AA:1158:C:O2	1:AA:1158:C:H2'	1.87	0.72
13:AL:28:GLN:HB3	13:AL:80:LEU:HD11	1.70	0.72
22:B0:1580:A:H4'	26:BA:70:LYS:C	2.10	0.72
22:B0:1970:A:H5'	22:B0:1972:G:O4'	1.89	0.72
26:BA:64:VAL:CG1	26:BA:65:ASP:H	1.93	0.72
31:BF:31:VAL:HB	31:BF:32:PRO:HD3	1.70	0.72
1:AA:720:C:H4'	19:AR:69:TYR:CE1	2.23	0.72
7:AF:52:ASN:OD1	7:AF:85:ILE:HD13	1.90	0.72
22:B0:2478:A:H2'	22:B0:2529:G:C8	2.23	0.72
27:BB:62:LYS:HB3	27:BB:63:PRO:HD3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BK:79:ALA:O	36:BK:80:VAL:HB	1.89	0.72
39:BN:30:TRP:NE1	39:BN:82:SER:HA	2.04	0.72
39:BN:91:VAL:HG12	39:BN:92:ARG:N	2.04	0.72
43:BS:11:ILE:HD12	43:BS:21:ARG:HG2	1.71	0.72
47:BX:6:ILE:HG13	47:BX:56:VAL:HG12	1.70	0.72
22:B0:1046:A:H3'	25:B5:29:LYS:CD	2.18	0.72
22:B0:1083:U:H2'	25:B3:81:LYS:HE2	1.71	0.72
22:B0:1488:G:C6	26:BA:156:SER:HB2	2.25	0.72
22:B0:1581:A:H61	26:BA:99:GLU:HG3	1.53	0.72
25:B5:29:LYS:HE2	25:B5:30:PHE:CZ	2.23	0.72
26:BA:72:GLY:O	26:BA:73:ILE:HG13	1.89	0.72
33:BH:37:ARG:HD3	33:BH:37:ARG:H	1.54	0.72
42:BR:30:ILE:HB	42:BR:85:VAL:HG13	1.69	0.72
42:BR:66:LYS:HE2	42:BR:66:LYS:HA	1.72	0.72
11:AJ:89:ARG:HB3	11:AJ:89:ARG:NH1	2.05	0.72
12:AK:44:ALA:HB3	12:AK:69:CYS:HB2	1.72	0.72
22:B0:65:U:OP1	42:BR:74:ILE:HB	1.90	0.72
22:B0:807:U:H1'	22:B0:2445:G:OP1	1.89	0.72
22:B0:1314:C:N4	22:B0:1338:G:H1	1.87	0.72
22:B0:2179:C:H3'	22:B0:2180:U:H3'	1.72	0.72
22:B0:2256:G:N2	22:B0:2257:U:H1'	2.05	0.72
26:BA:166:ARG:HA	26:BA:171:VAL:HG23	1.72	0.72
4:AC:50:SER:HB3	4:AC:114:LEU:HD22	1.70	0.72
9:AH:74:ILE:HG13	9:AH:128:VAL:HG12	1.70	0.72
21:AT:33:LYS:HA	21:AT:33:LYS:HE3	1.70	0.72
22:B0:1200:C:H2'	22:B0:1201:U:C6	2.25	0.72
22:B0:1831:G:N2	22:B0:1975:G:H1'	2.04	0.72
22:B0:2391:G:H22	22:B0:2427:C:H4'	1.55	0.72
28:BC:32:VAL:HB	35:BJ:17:LYS:CD	2.20	0.72
35:BJ:39:LYS:NZ	35:BJ:41:ARG:HG2	2.05	0.72
1:AA:1278:G:H5''	1:AA:1279:G:H5'	1.72	0.72
22:B0:589:U:P	28:BC:44:ARG:H	2.13	0.72
22:B0:992:C:C5'	40:BO:47:ARG:HB3	2.16	0.72
22:B0:1490:C:H5''	26:BA:160:TYR:O	1.89	0.72
22:B0:1815:A:H5''	22:B0:1816:C:OP1	1.90	0.72
22:B0:2286:G:H4'	22:B0:2287:A:O4'	1.90	0.72
22:B0:2891:A:C6	22:B0:2892:G:H1'	2.25	0.72
32:BG:52:LEU:HD21	32:BG:73:PRO:HB3	1.71	0.72
37:BL:100:CYS:HB3	37:BL:110:MET:O	1.90	0.72
44:BT:30:ILE:HG13	44:BT:91:PHE:HB2	1.71	0.72
1:AA:430:A:H1'	1:AA:431:A:C4	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:10:LYS:HE2	3:AB:211:LEU:HD21	1.71	0.72
10:AI:46:VAL:HA	10:AI:49:GLN:HG2	1.71	0.72
12:AK:33:ILE:HD12	12:AK:81:LEU:HD13	1.72	0.72
22:B0:973:A:H4'	22:B0:1186:G:H22	1.55	0.72
22:B0:1222:U:H3	22:B0:1227:G:H1	1.35	0.72
22:B0:1583:G:N2	26:BA:75:ALA:HA	1.99	0.72
22:B0:2089:C:N4	22:B0:2090:A:H62	1.87	0.72
42:BR:34:VAL:HG11	42:BR:43:ILE:HD12	1.71	0.72
22:B0:800:A:H2	28:BC:60:TRP:N	1.84	0.71
22:B0:2137:U:O2'	22:B0:2138:G:H5'	1.90	0.71
22:B0:2895:C:H2'	22:B0:2896:U:C6	2.25	0.71
25:B3:78:LEU:HB3	25:B3:82:GLU:CB	2.19	0.71
27:BB:4:LEU:HB2	27:BB:100:LEU:HD23	1.72	0.71
1:AA:889:A:H5''	1:AA:890:G:OP1	1.89	0.71
22:B0:587:C:H4'	28:BC:81:GLY:H	1.54	0.71
33:BH:24:THR:HG22	33:BH:26:GLY:H	1.53	0.71
1:AA:827:U:H5'	9:AH:15:ASN:ND2	2.05	0.71
22:B0:1494:A:H2'	22:B0:1494:A:N3	2.04	0.71
22:B0:1830:C:N4	22:B0:1975:G:H22	1.87	0.71
24:B2:33:ALA:HB3	24:B2:177:VAL:HG21	1.73	0.71
33:BH:89:PHE:HB3	33:BH:92:MET:HB2	1.72	0.71
36:BK:108:VAL:HG22	36:BK:109:PRO:HD2	1.73	0.71
41:BQ:87:PRO:HA	41:BQ:88:ARG:NH2	2.05	0.71
1:AA:1485:U:H5'	22:B0:1960:A:H4'	1.70	0.71
11:AJ:10:LEU:HD11	11:AJ:25:ILE:HD12	1.71	0.71
22:B0:781:A:O2'	22:B0:1789:A:H5'	1.90	0.71
22:B0:884:U:H2'	22:B0:885:C:C5	2.25	0.71
22:B0:1490:C:C2'	26:BA:174:ARG:HB2	2.20	0.71
22:B0:2226:C:C4	22:B0:2227:A:H1'	2.25	0.71
28:BC:178:VAL:HA	35:BJ:17:LYS:H	1.55	0.71
47:BX:4:ILE:HG12	47:BX:58:GLU:HB3	1.71	0.71
1:AA:419:C:H5''	1:AA:540:G:N2	2.04	0.71
1:AA:419:C:O5'	1:AA:540:G:N3	2.21	0.71
1:AA:1188:A:H5''	11:AJ:60:ASP:HB3	1.71	0.71
9:AH:29:SER:HB3	9:AH:32:LYS:HG2	1.71	0.71
18:AQ:83:LEU:OXT	18:AQ:83:LEU:HD13	1.90	0.71
22:B0:1201:U:H2'	35:BJ:14:LYS:HE3	1.73	0.71
23:B9:56:G:H5''	23:B9:57:A:OP1	1.90	0.71
27:BB:123:LYS:HB2	27:BB:141:ARG:HE	1.54	0.71
28:BC:153:LEU:CD1	28:BC:158:PHE:HB2	2.18	0.71
22:B0:28:A:N6	22:B0:512:G:H1'	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1114:C:H2'	22:B0:1115:G:C8	2.24	0.71
22:B0:1141:U:O2'	22:B0:1142:A:OP2	2.07	0.71
26:BA:149:LYS:HZ2	26:BA:152:GLN:HG2	1.55	0.71
40:BO:116:LEU:HD23	40:BO:116:LEU:H	1.55	0.71
1:AA:991:U:O2'	1:AA:992:U:H5'	1.91	0.71
11:AJ:40:ILE:HG13	11:AJ:42:LEU:HD21	1.73	0.71
22:B0:27:G:H22	22:B0:512:G:H2'	1.56	0.71
22:B0:960:A:C8	22:B0:2496:C:OP2	2.44	0.71
22:B0:1314:C:OP1	22:B0:1332:G:H5'	1.90	0.71
22:B0:2160:C:H5''	22:B0:2162:G:P	2.30	0.71
22:B0:2494:G:C4	22:B0:2495:G:H1'	2.25	0.71
22:B0:2643:G:H5''	27:BB:157:LYS:HB3	1.71	0.71
25:B3:69:ILE:HG23	25:B3:83:ALA:HB3	1.72	0.71
27:BB:160:LYS:H	27:BB:160:LYS:CD	2.02	0.71
28:BC:72:SER:HB2	28:BC:78:TRP:CD1	2.25	0.71
28:BC:112:LEU:HG	28:BC:118:LEU:HD11	1.72	0.71
35:BJ:60:ARG:HB3	35:BJ:60:ARG:NH1	2.06	0.71
40:BO:14:LYS:HG3	40:BO:15:LYS:HG2	1.71	0.71
1:AA:40:C:H2'	1:AA:41:G:C8	2.26	0.71
22:B0:715:A:H2'	22:B0:716:A:O4'	1.90	0.71
22:B0:807:U:H4'	22:B0:2445:G:H4'	1.70	0.71
22:B0:2176:A:C5'	24:B2:167:ASN:H	2.02	0.71
37:BL:22:ARG:CZ	37:BL:69:ARG:HB3	2.21	0.71
46:BW:39:GLN:O	46:BW:43:LEU:HG	1.91	0.71
1:AA:6:G:N2	6:AE:105:ILE:HG13	2.04	0.71
1:AA:483:C:C5'	1:AA:484:G:H4'	2.21	0.71
1:AA:522:C:H41	13:AL:45:ASN:HD21	1.36	0.71
1:AA:1139:G:C4'	1:AA:1140:C:H5'	2.20	0.71
9:AH:45:ILE:HD12	9:AH:60:LEU:HD11	1.72	0.71
21:AT:38:ILE:HG22	21:AT:85:LEU:HB2	1.73	0.71
22:B0:386:G:H22	22:B0:411:G:H22	1.37	0.71
22:B0:1491:A:H3'	26:BA:175:LEU:HA	1.73	0.71
22:B0:1943:U:H5''	22:B0:1944:U:OP1	1.89	0.71
22:B0:2154:A:H4'	22:B0:2155:U:OP1	1.89	0.71
26:BA:71:ASP:HB2	26:BA:119:VAL:H	1.56	0.71
26:BA:181:ARG:HA	26:BA:181:ARG:HE	1.56	0.71
42:BR:67:VAL:HG22	42:BR:76:ARG:HA	1.73	0.71
12:AK:80:ASN:HD21	12:AK:107:THR:HB	1.56	0.71
22:B0:493:G:H21	41:BQ:7:HIS:HA	1.53	0.71
22:B0:524:G:H4'	22:B0:555:U:H4'	1.73	0.71
22:B0:528:A:H61	22:B0:2043:C:C5'	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:581:C:H5''	40:BO:31:TYR:CE2	2.26	0.71
22:B0:865:C:HO2'	22:B0:866:A:H8	1.38	0.71
22:B0:1383:A:OP1	22:B0:1573:G:H1'	1.91	0.71
22:B0:1427:A:N6	26:BA:58:LYS:HG3	2.06	0.71
22:B0:1493:A:N1	26:BA:185:ALA:HA	2.06	0.71
22:B0:1579:A:C4	26:BA:67:LYS:HG3	2.25	0.71
22:B0:2478:A:H2'	22:B0:2529:G:C5	2.26	0.71
26:BA:141:HIS:N	26:BA:141:HIS:CD2	2.58	0.71
28:BC:92:HIS:HB3	35:BJ:29:LYS:HE3	1.72	0.71
43:BS:23:LYS:HB3	43:BS:36:GLU:OE1	1.91	0.71
11:AJ:57:VAL:HG12	11:AJ:58:ASN:N	2.04	0.70
12:AK:22:ILE:HD11	12:AK:99:LEU:HD11	1.73	0.70
22:B0:494:G:C1'	41:BQ:6:LYS:HB2	2.13	0.70
22:B0:789:A:H5''	22:B0:790:U:OP2	1.91	0.70
22:B0:922:C:H1'	45:BU:19:ARG:HE	1.56	0.70
22:B0:1206:G:H22	22:B0:1240:U:H3	1.38	0.70
22:B0:2470:G:H2'	22:B0:2471:A:H8	1.55	0.70
26:BA:143:VAL:HG12	26:BA:189:ALA:CB	2.21	0.70
28:BC:27:LEU:O	28:BC:31:VAL:HG23	1.91	0.70
28:BC:43:THR:HG23	28:BC:43:THR:O	1.89	0.70
34:BI:99:ILE:HD13	34:BI:100:PHE:N	2.06	0.70
35:BJ:39:LYS:HG2	35:BJ:41:ARG:N	2.01	0.70
41:BQ:74:ILE:HD13	41:BQ:74:ILE:N	2.06	0.70
41:BQ:88:ARG:H	41:BQ:88:ARG:CZ	2.03	0.70
1:AA:197:A:N6	1:AA:221:C:H4'	2.06	0.70
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.26	0.70
22:B0:74:A:H5'	22:B0:75:G:O5'	1.91	0.70
22:B0:494:G:H1'	41:BQ:7:HIS:H	1.55	0.70
22:B0:838:C:N4	22:B0:940:G:H1	1.89	0.70
22:B0:1799:G:H5''	22:B0:1800:C:OP1	1.91	0.70
22:B0:1996:C:O2'	22:B0:1997:C:O4'	2.08	0.70
22:B0:2296:U:H4'	22:B0:2297:A:C5'	2.20	0.70
28:BC:88:ARG:H	28:BC:89:PRO:HD3	1.56	0.70
32:BG:96:LYS:HD2	32:BG:96:LYS:H	1.55	0.70
33:BH:12:LYS:HA	33:BH:12:LYS:HE3	1.73	0.70
37:BL:43:GLU:OE1	37:BL:44:LEU:HG	1.91	0.70
42:BR:39:THR:HG23	42:BR:41:ALA:H	1.56	0.70
42:BR:77:ARG:HH22	42:BR:79:ASP:CG	1.94	0.70
5:AD:167:PRO:HG2	5:AD:170:LEU:HB2	1.72	0.70
9:AH:63:LYS:HG3	9:AH:70:VAL:HG21	1.73	0.70
22:B0:569:U:H1'	22:B0:971:G:H21	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:910:A:N6	36:BK:10:ARG:HG2	2.07	0.70
26:BA:172:THR:C	26:BA:173:LEU:HD12	2.12	0.70
1:AA:418:C:OP1	1:AA:540:G:OP1	2.07	0.70
1:AA:753:A:H5''	1:AA:754:C:OP1	1.91	0.70
1:AA:975:A:H4'	1:AA:976:G:C5'	2.22	0.70
1:AA:1455:G:H2'	1:AA:1459:G:H8	1.56	0.70
6:AE:12:GLU:HG3	6:AE:38:VAL:HG12	1.73	0.70
13:AL:56:LEU:H	13:AL:56:LEU:HD22	1.56	0.70
20:AS:6:LYS:NZ	20:AS:6:LYS:HB3	2.06	0.70
22:B0:970:U:H4'	22:B0:984:A:H1'	1.72	0.70
22:B0:1265:A:O2'	22:B0:1266:G:H4'	1.91	0.70
22:B0:1421:G:C4	26:BA:149:LYS:CA	2.74	0.70
22:B0:1657:U:H2'	22:B0:1658:C:C6	2.25	0.70
22:B0:1760:C:OP2	22:B0:1760:C:H6	1.74	0.70
22:B0:1779:U:H4'	22:B0:1780:A:OP2	1.91	0.70
22:B0:2437:G:H2'	22:B0:2438:U:O4'	1.91	0.70
22:B0:2679:A:OP1	27:BB:165:MET:HB3	1.91	0.70
25:B3:57:ILE:HD12	25:B5:5:ASP:HB2	1.74	0.70
32:BG:11:GLN:HG3	32:BG:55:PRO:HB3	1.72	0.70
37:BL:49:GLU:HB2	37:BL:52:ILE:HG12	1.73	0.70
39:BN:20:ARG:CG	39:BN:25:VAL:HG21	2.21	0.70
1:AA:22:G:H1'	1:AA:913:A:N1	2.06	0.70
6:AE:15:ILE:HD12	6:AE:35:LEU:HB3	1.72	0.70
22:B0:977:G:H4'	22:B0:1001:A:C2	2.27	0.70
26:BA:140:VAL:HG22	26:BA:161:VAL:O	1.89	0.70
32:BG:92:PRO:O	32:BG:93:ASN:HB3	1.91	0.70
42:BR:48:GLN:HG3	42:BR:54:GLU:HA	1.73	0.70
1:AA:911:U:H2'	1:AA:912:C:C6	2.26	0.70
1:AA:1305:G:H22	1:AA:1331:G:H2'	1.55	0.70
3:AB:37:VAL:HG22	3:AB:39:ILE:H	1.55	0.70
7:AF:81:ASN:ND2	7:AF:83:ALA:HB3	2.05	0.70
22:B0:323:C:C2	28:BC:163:ASN:HB2	2.27	0.70
32:BG:33:ASN:HD22	32:BG:34:ILE:H	1.39	0.70
37:BL:37:THR:O	37:BL:40:LYS:HB3	1.92	0.70
40:BO:15:LYS:HZ2	40:BO:15:LYS:CA	2.04	0.70
40:BO:63:ARG:O	40:BO:63:ARG:HD2	1.91	0.70
42:BR:8:LEU:HB2	46:BW:26:PHE:HA	1.71	0.70
4:AC:152:VAL:HG13	4:AC:195:ILE:HD11	1.73	0.70
5:AD:56:GLU:HG2	5:AD:198:LEU:HB2	1.74	0.70
6:AE:148:SER:HB3	6:AE:149:PRO:HD2	1.72	0.70
7:AF:24:ARG:NH2	7:AF:81:ASN:HB2	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:589:U:OP2	28:BC:44:ARG:HB2	1.91	0.70
22:B0:778:G:H2'	22:B0:779:U:O4'	1.90	0.70
22:B0:1019:U:H3	22:B0:1142:A:H62	1.39	0.70
22:B0:1580:A:O4'	26:BA:69:ASN:N	2.25	0.70
22:B0:2428:G:H4'	22:B0:2429:G:C4	2.26	0.70
22:B0:2529:G:OP2	22:B0:2530:A:H5''	1.91	0.70
24:B2:147:ASN:HD22	24:B2:150:GLU:HB2	1.56	0.70
29:BD:91:ARG:NH1	29:BD:91:ARG:HB2	2.07	0.70
32:BG:10:LEU:HG	32:BG:11:GLN:H	1.55	0.70
33:BH:14:ASP:HB3	33:BH:15:TRP:CE3	2.27	0.70
40:BO:32:ARG:NE	40:BO:32:ARG:HA	2.07	0.70
42:BR:8:LEU:HD12	46:BW:26:PHE:O	1.92	0.70
42:BR:68:LYS:HD3	42:BR:69:ARG:H	1.56	0.70
49:B1:26:LYS:HG2	49:B1:28:THR:HG22	1.72	0.70
1:AA:559:A:O2'	1:AA:560:A:OP2	2.10	0.70
1:AA:572:A:H4'	1:AA:917:G:H4'	1.74	0.70
2:AU:75:C:C4'	22:B0:2557:G:H5''	2.22	0.70
9:AH:6:ILE:HB	9:AH:76:ARG:NH1	2.06	0.70
12:AK:106:ILE:HD11	12:AK:109:ILE:HG13	1.74	0.70
22:B0:1087:G:C5	22:B0:1089:A:H1'	2.26	0.70
22:B0:2677:G:H4'	27:BB:160:LYS:CB	2.18	0.70
22:B0:2898:G:OP2	33:BH:140:LEU:HB2	1.91	0.70
26:BA:81:GLU:HB2	26:BA:90:ILE:HD11	1.72	0.70
36:BK:8:LYS:O	36:BK:10:ARG:HG3	1.91	0.70
1:AA:1157:A:H1'	1:AA:1181:G:N2	2.07	0.70
15:AN:54:SER:HB2	15:AN:58:ARG:HD2	1.72	0.70
22:B0:1312:U:H5''	22:B0:1313:U:OP1	1.92	0.70
22:B0:1626:A:H4'	22:B0:1627:G:H5''	1.74	0.70
22:B0:2513:A:N1	22:B0:2575:C:H1'	2.07	0.70
26:BA:211:ARG:HA	26:BA:211:ARG:HE	1.55	0.70
41:BQ:25:ARG:H	41:BQ:25:ARG:HE	1.37	0.70
45:BU:45:HIS:HB3	45:BU:79:ILE:CG2	2.20	0.70
1:AA:36:C:H5''	13:AL:119:LYS:HA	1.73	0.70
1:AA:426:U:H2'	1:AA:427:U:C6	2.27	0.70
1:AA:483:C:H5''	1:AA:484:G:H4'	1.73	0.70
1:AA:1038:C:H2'	1:AA:1039:G:C8	2.27	0.70
1:AA:1196:A:H4'	1:AA:1197:A:OP2	1.91	0.70
1:AA:1322:C:C4'	1:AA:1323:G:H5'	2.22	0.70
4:AC:100:ILE:HD13	4:AC:101:ASN:N	2.07	0.70
22:B0:960:A:O4'	22:B0:2496:C:OP2	2.09	0.70
22:B0:1204:A:H5''	28:BC:148:ILE:HG23	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1819:A:H4'	22:B0:1821:A:OP2	1.91	0.70
22:B0:2116:G:H4'	22:B0:2116:G:OP1	1.91	0.70
25:B3:57:ILE:CD1	25:B5:5:ASP:HB2	2.22	0.70
30:BE:151:ARG:HA	30:BE:151:ARG:HE	1.57	0.70
33:BH:35:ARG:HA	33:BH:39:LYS:HD3	1.73	0.70
41:BQ:50:VAL:C	41:BQ:52:GLU:H	1.94	0.70
42:BR:8:LEU:CD2	42:BR:11:LEU:HD21	2.21	0.70
42:BR:75:GLY:O	42:BR:77:ARG:HG3	1.92	0.70
46:BW:39:GLN:HE21	46:BW:39:GLN:CA	2.03	0.70
7:AF:40:GLU:HB2	7:AF:61:LEU:HB2	1.74	0.69
22:B0:265:A:H4'	22:B0:266:G:OP1	1.90	0.69
22:B0:529:A:N7	22:B0:2042:A:H2	1.89	0.69
22:B0:774:G:H1'	22:B0:777:G:N2	2.05	0.69
22:B0:1418:G:N3	26:BA:99:GLU:OE1	2.24	0.69
22:B0:1758:U:H2'	22:B0:1758:U:O2	1.91	0.69
22:B0:2345:G:O2'	22:B0:2381:A:H1'	1.91	0.69
28:BC:91:ASP:N	35:BJ:27:LEU:O	2.24	0.69
33:BH:105:VAL:HA	33:BH:108:MET:HE3	1.73	0.69
1:AA:417:G:H22	1:AA:427:U:C1'	2.05	0.69
1:AA:1186:G:H5''	10:AI:121:ARG:O	1.92	0.69
1:AA:1518:A:H2'	1:AA:1519:A:C8	2.27	0.69
22:B0:840:C:H2'	22:B0:841:G:C8	2.27	0.69
22:B0:1204:A:H61	22:B0:1241:A:H61	1.38	0.69
22:B0:1500:A:H61	26:BA:156:SER:N	1.89	0.69
22:B0:1580:A:H2'	22:B0:1581:A:O4'	1.91	0.69
22:B0:1835:G:H1'	22:B0:1931:U:H3	1.57	0.69
22:B0:2179:C:O3'	22:B0:2180:U:H3'	1.91	0.69
32:BG:81:LYS:HE2	32:BG:81:LYS:HA	1.74	0.69
41:BQ:28:LYS:H	41:BQ:70:LYS:HD2	1.57	0.69
1:AA:701:U:O2'	1:AA:702:A:OP2	2.07	0.69
1:AA:1067:A:N6	1:AA:1109:C:H5'	2.07	0.69
13:AL:113:ARG:NH1	13:AL:120:ARG:HG3	2.07	0.69
22:B0:35:G:O4'	22:B0:454:A:H1'	1.91	0.69
22:B0:960:A:H3'	22:B0:2496:C:C3'	2.21	0.69
22:B0:1669:A:N3	22:B0:1669:A:H2'	2.06	0.69
22:B0:1837:C:O2'	22:B0:1838:C:H5'	1.91	0.69
22:B0:2728:U:H2'	22:B0:2729:G:C8	2.27	0.69
23:B9:84:G:C2'	23:B9:85:G:H5''	2.22	0.69
28:BC:164:LEU:HB2	28:BC:167:VAL:HG21	1.75	0.69
29:BD:151:LEU:HD13	29:BD:152:ASP:N	2.07	0.69
32:BG:56:VAL:HG12	32:BG:70:THR:HA	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:42:GLU:HG2	42:BR:43:ILE:HG12	1.72	0.69
1:AA:21:G:H1'	1:AA:914:A:N6	2.06	0.69
3:AB:216:VAL:O	3:AB:220:VAL:HG23	1.93	0.69
9:AH:77:VAL:HG13	9:AH:84:ILE:HD11	1.74	0.69
9:AH:107:LYS:HG2	9:AH:120:LEU:HD22	1.74	0.69
16:AO:13:GLU:HG3	16:AO:14:PHE:CD1	2.28	0.69
21:AT:60:GLN:HA	21:AT:65:LEU:HD12	1.73	0.69
22:B0:372:G:O6	31:BF:22:LYS:HG2	1.91	0.69
22:B0:672:C:OP1	28:BC:65:THR:HG22	1.91	0.69
22:B0:1141:U:H4'	22:B0:1142:A:O4'	1.93	0.69
22:B0:2164:C:H5''	22:B0:2165:C:OP1	1.91	0.69
22:B0:2345:G:H4'	22:B0:2346:A:O5'	1.91	0.69
24:B2:29:LEU:HD21	24:B2:41:VAL:HG11	1.75	0.69
35:BJ:111:ILE:H	35:BJ:111:ILE:HD13	1.57	0.69
40:BO:102:LYS:HE3	40:BO:102:LYS:H	1.56	0.69
1:AA:144:G:H2'	1:AA:145:G:H8	1.57	0.69
1:AA:419:C:H5''	1:AA:540:G:N3	2.07	0.69
1:AA:560:A:O2'	1:AA:561:U:OP2	2.06	0.69
1:AA:980:C:C6	20:AS:5:LYS:HD3	2.28	0.69
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.56	0.69
22:B0:493:G:C8	41:BQ:9:HIS:HB2	2.27	0.69
22:B0:600:G:H1'	28:BC:99:LYS:HB3	1.74	0.69
22:B0:1490:C:H2'	26:BA:174:ARG:HB2	1.73	0.69
22:B0:2811:G:H1	22:B0:2889:C:H42	1.41	0.69
24:B2:29:LEU:HD22	24:B2:213:ILE:HD11	1.75	0.69
26:BA:100:ARG:O	26:BA:101:ARG:HG3	1.91	0.69
33:BH:45:THR:HB	33:BH:46:PRO:CA	2.23	0.69
1:AA:992:U:H4'	1:AA:993:G:O5'	1.92	0.69
2:AU:75:C:O4'	22:B0:2557:G:H3'	1.92	0.69
22:B0:1275:A:H4'	22:B0:1276:A:O5'	1.93	0.69
26:BA:241:LYS:O	26:BA:243:PRO:HD2	1.90	0.69
40:BO:63:ARG:HB3	40:BO:63:ARG:HH11	1.57	0.69
45:BU:43:LYS:CE	45:BU:43:LYS:H	2.04	0.69
1:AA:50:A:O2'	1:AA:51:A:OP2	2.08	0.69
2:AV:16:U:H4'	2:AV:18:G:OP2	1.92	0.69
22:B0:1427:A:N6	26:BA:58:LYS:HE3	2.07	0.69
22:B0:2472:G:N2	22:B0:2478:A:H62	1.90	0.69
25:B3:78:LEU:HB3	25:B3:82:GLU:HB3	1.74	0.69
28:BC:145:ASP:O	28:BC:148:ILE:HB	1.93	0.69
34:BI:52:VAL:HG22	34:BI:56:ASP:OD1	1.92	0.69
39:BN:28:LYS:H	39:BN:28:LYS:HD3	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:40:SER:HA	46:BW:43:LEU:HG	1.74	0.69
1:AA:545:C:C2'	1:AA:548:G:HO2'	2.06	0.69
1:AA:1349:A:H1'	1:AA:1374:A:N6	2.07	0.69
3:AB:186:VAL:HG22	3:AB:187:ASP:H	1.57	0.69
4:AC:4:VAL:HG11	4:AC:9:ILE:HD12	1.75	0.69
10:AI:8:THR:HB	10:AI:84:ARG:NH1	2.08	0.69
22:B0:873:C:H4'	36:BK:64:TRP:HZ3	1.58	0.69
22:B0:1487:G:O2'	26:BA:198:GLU:HG3	1.93	0.69
29:BD:87:LYS:O	29:BD:87:LYS:HD3	1.93	0.69
29:BD:160:LYS:H	29:BD:160:LYS:HD2	1.58	0.69
34:BI:24:VAL:HA	34:BI:39:ILE:HG22	1.73	0.69
35:BJ:63:LYS:HD2	35:BJ:63:LYS:N	2.08	0.69
38:BM:79:ALA:HB1	38:BM:115:LEU:HD23	1.74	0.69
40:BO:5:ARG:HG3	40:BO:8:ILE:O	1.93	0.69
40:BO:21:LYS:N	40:BO:21:LYS:HD2	2.08	0.69
40:BO:42:GLY:O	40:BO:46:TYR:HA	1.92	0.69
1:AA:1221:G:C2	20:AS:1:PRO:HB2	2.28	0.69
10:AI:43:ALA:O	10:AI:46:VAL:HG12	1.92	0.69
15:AN:40:ARG:HD2	20:AS:17:LYS:HE2	1.75	0.69
22:B0:124:G:H21	22:B0:126:A:H5'	1.57	0.69
22:B0:1480:G:H1	22:B0:1511:G:H1	1.39	0.69
22:B0:2899:A:H61	33:BH:137:PRO:N	1.90	0.69
24:B2:14:VAL:HG22	24:B2:28:LEU:HD21	1.75	0.69
27:BB:58:ASN:HA	27:BB:61:THR:HG22	1.74	0.69
35:BJ:36:LYS:HG2	35:BJ:38:GLN:HG2	1.74	0.69
1:AA:1157:A:H5'	1:AA:1158:C:C6	2.28	0.69
10:AI:117:LEU:HA	10:AI:124:PRO:HD3	1.74	0.69
13:AL:30:ARG:NH1	13:AL:30:ARG:HB2	2.08	0.69
22:B0:1996:C:C4	27:BB:138:LEU:HG	2.28	0.69
22:B0:2142:A:C2'	22:B0:2143:C:H5'	2.23	0.69
22:B0:2227:A:C2'	22:B0:2228:G:H5'	2.23	0.69
24:B2:49:ILE:HD13	24:B2:49:ILE:H	1.56	0.69
27:BB:120:GLY:O	27:BB:124:ARG:HG3	1.93	0.69
40:BO:2:ARG:NH1	40:BO:3:VAL:HG12	2.07	0.69
42:BR:34:VAL:HG22	42:BR:82:LYS:HA	1.74	0.69
1:AA:419:C:H6	1:AA:540:G:HO2'	1.40	0.68
1:AA:1065:U:H1'	1:AA:1066:C:H5	1.56	0.68
2:AU:16:U:O2'	2:AU:17:U:H5''	1.91	0.68
22:B0:312:G:H4'	22:B0:331:C:C4	2.28	0.68
22:B0:1494:A:C5	26:BA:131:MET:HA	2.27	0.68
22:B0:1581:A:H61	26:BA:99:GLU:CG	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2163:G:H21	22:B0:2164:C:H2'	1.58	0.68
22:B0:2321:U:H2'	22:B0:2321:U:O2	1.92	0.68
22:B0:2478:A:H4'	22:B0:2528:U:H5''	1.75	0.68
23:B9:72:G:H1	23:B9:104:A:H2	1.40	0.68
23:B9:76:G:N2	23:B9:100:G:H22	1.90	0.68
25:B3:96:GLU:CA	25:B5:8:ILE:HG23	2.23	0.68
39:BN:86:LYS:HG3	39:BN:87:ARG:H	1.56	0.68
40:BO:16:ILE:C	40:BO:18:LYS:H	1.96	0.68
42:BR:9:LYS:HE3	46:BW:25:GLN:NE2	2.08	0.68
1:AA:244:U:H1'	1:AA:894:G:C1'	2.15	0.68
22:B0:58:G:N2	22:B0:70:G:H1'	2.08	0.68
22:B0:1492:G:P	26:BA:175:LEU:HD13	2.33	0.68
22:B0:2145:C:H2'	22:B0:2146:C:H5''	1.74	0.68
28:BC:114:ARG:HB3	28:BC:117:ARG:HG3	1.73	0.68
33:BH:25:LEU:HD13	33:BH:25:LEU:H	1.56	0.68
38:BM:35:ILE:HD13	38:BM:36:TYR:N	2.08	0.68
40:BO:14:LYS:C	40:BO:16:ILE:H	1.96	0.68
1:AA:50:A:N6	1:AA:361:G:H4'	2.08	0.68
1:AA:419:C:O2'	5:AD:39:GLN:CB	2.41	0.68
1:AA:912:C:H2'	1:AA:913:A:H5'	1.75	0.68
1:AA:1157:A:H5''	1:AA:1158:C:OP1	1.93	0.68
9:AH:34:ALA:HB1	9:AH:109:VAL:HG11	1.74	0.68
17:AP:2:VAL:HG13	17:AP:65:ALA:HA	1.74	0.68
22:B0:574:A:O2'	22:B0:2055:C:H5	1.71	0.68
22:B0:657:U:H2'	22:B0:658:U:C6	2.28	0.68
22:B0:960:A:O3'	22:B0:2496:C:C6	2.46	0.68
22:B0:1582:C:H3'	26:BA:96:LYS:HD2	1.75	0.68
22:B0:1758:U:N3	22:B0:2695:U:H4'	2.04	0.68
22:B0:2127:G:O2'	22:B0:2165:C:O2'	2.01	0.68
22:B0:2266:A:H1'	22:B0:2272:U:N3	2.08	0.68
22:B0:2360:G:H1'	35:BJ:60:ARG:NH2	2.08	0.68
23:B9:13:G:H4'	23:B9:15:A:H62	1.56	0.68
25:B3:96:GLU:CB	25:B5:8:ILE:HG23	2.23	0.68
27:BB:13:ARG:CD	39:BN:10:GLU:HG3	2.22	0.68
36:BK:112:LEU:H	36:BK:112:LEU:HD13	1.58	0.68
1:AA:563:A:H1'	1:AA:566:G:O2'	1.93	0.68
1:AA:617:G:H4'	17:AP:14:ARG:NH2	2.08	0.68
1:AA:817:C:H5''	1:AA:818:G:OP1	1.94	0.68
1:AA:1285:A:O2'	1:AA:1286:U:H5''	1.94	0.68
19:AR:7:ARG:NH1	19:AR:7:ARG:HB2	2.08	0.68
22:B0:827:U:H5'	22:B0:828:U:C5	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1196:C:H2'	22:B0:1197:G:H8	1.58	0.68
22:B0:1419:A:H62	22:B0:1579:A:H61	1.41	0.68
22:B0:2262:U:H1'	45:BU:10:ARG:NH1	2.07	0.68
25:B3:107:LYS:HD2	25:B3:119:VAL:HG23	1.75	0.68
29:BD:111:ARG:HH22	29:BD:134:GLN:CG	2.06	0.68
33:BH:44:TYR:CE2	33:BH:46:PRO:HB3	2.27	0.68
1:AA:1117:A:H2'	1:AA:1118:U:H5'	1.76	0.68
22:B0:405:U:H5''	22:B0:406:G:OP2	1.93	0.68
22:B0:487:C:H4'	41:BQ:53:SER:HB2	1.74	0.68
23:B9:56:G:H4'	23:B9:57:A:C8	2.28	0.68
24:B2:7:MET:O	24:B2:11:ARG:HG2	1.93	0.68
26:BA:62:ARG:HE	26:BA:150:GLY:C	1.97	0.68
31:BF:15:LEU:HB3	31:BF:51:ARG:HH22	1.57	0.68
39:BN:24:THR:HA	39:BN:49:ILE:HG12	1.75	0.68
39:BN:71:ARG:O	39:BN:72:VAL:HB	1.94	0.68
5:AD:60:VAL:HG13	5:AD:194:ILE:HD13	1.76	0.68
22:B0:611:C:N4	22:B0:618:G:N2	2.41	0.68
22:B0:1039:A:H2'	22:B0:1040:A:H8	1.58	0.68
22:B0:1321:A:H61	22:B0:1334:G:H1'	1.58	0.68
22:B0:1495:A:N6	26:BA:142:ASN:ND2	2.42	0.68
22:B0:2136:G:H2'	22:B0:2137:U:C5'	2.20	0.68
22:B0:2161:C:H1'	22:B0:2162:G:C4'	2.24	0.68
23:B9:78:A:H61	23:B9:98:G:C2'	2.05	0.68
26:BA:163:ILE:HG13	26:BA:173:LEU:HD21	1.76	0.68
28:BC:78:TRP:CD1	28:BC:79:ARG:HG3	2.29	0.68
28:BC:143:LEU:HB3	28:BC:146:VAL:HG23	1.76	0.68
28:BC:143:LEU:HB3	28:BC:146:VAL:CG2	2.24	0.68
30:BE:148:ARG:NH2	30:BE:168:VAL:HG12	2.08	0.68
33:BH:55:ILE:CD1	33:BH:56:VAL:H	2.07	0.68
39:BN:59:THR:HG23	39:BN:76:HIS:HA	1.75	0.68
41:BQ:88:ARG:H	41:BQ:88:ARG:NE	1.91	0.68
1:AA:814:A:H4'	1:AA:1511:G:H4'	1.76	0.68
1:AA:1479:C:H2'	1:AA:1480:A:H8	1.58	0.68
5:AD:166:LYS:HG2	5:AD:172:VAL:HG22	1.75	0.68
8:AG:149:ALA:CB	12:AK:60:PHE:HB2	2.24	0.68
21:AT:55:PRO:O	21:AT:59:ARG:HG3	1.92	0.68
22:B0:854:C:H2'	22:B0:855:G:H8	1.59	0.68
22:B0:904:G:H2'	22:B0:905:A:H8	1.57	0.68
22:B0:2165:C:N4	22:B0:2172:U:O2'	2.27	0.68
26:BA:198:GLU:HG2	26:BA:201:LEU:HD12	1.76	0.68
28:BC:44:ARG:HA	28:BC:89:PRO:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:33:ASN:ND2	32:BG:34:ILE:H	1.91	0.68
32:BG:71:LYS:HG3	32:BG:72:THR:H	1.58	0.68
37:BL:36:THR:OG1	37:BL:40:LYS:HB2	1.94	0.68
39:BN:105:LYS:HA	39:BN:105:LYS:HZ1	1.58	0.68
41:BQ:35:ILE:HD13	41:BQ:36:LEU:H	1.56	0.68
1:AA:419:C:C5'	1:AA:540:G:N3	2.56	0.68
12:AK:113:THR:HG22	12:AK:115:ILE:HG13	1.75	0.68
22:B0:528:A:N6	22:B0:2042:A:H2'	2.09	0.68
22:B0:2123:G:H4'	22:B0:2124:G:C4'	2.24	0.68
22:B0:2261:C:H2'	22:B0:2262:U:C6	2.27	0.68
22:B0:2262:U:O2'	45:BU:10:ARG:HB3	1.94	0.68
22:B0:2345:G:H1'	22:B0:2381:A:N3	2.09	0.68
29:BD:109:ARG:HA	29:BD:109:ARG:HE	1.59	0.68
35:BJ:21:ARG:HD2	35:BJ:22:GLY:H	1.59	0.68
36:BK:86:LYS:HE2	36:BK:86:LYS:HA	1.75	0.68
41:BQ:18:ARG:C	41:BQ:20:VAL:H	1.97	0.68
41:BQ:69:LEU:O	41:BQ:69:LEU:HD12	1.94	0.68
1:AA:31:G:C5	1:AA:48:C:H5''	2.29	0.68
1:AA:610:U:H2'	1:AA:611:C:C6	2.27	0.68
5:AD:13:ARG:HH21	5:AD:37:PRO:HG2	1.58	0.68
5:AD:151:GLN:HG3	5:AD:154:VAL:HG22	1.75	0.68
13:AL:98:ARG:HB2	13:AL:116:TYR:HA	1.75	0.68
22:B0:655:A:H4'	22:B0:656:G:H5'	1.76	0.68
22:B0:918:A:H62	22:B0:2268:A:H8	1.42	0.68
22:B0:1014:A:H61	22:B0:1148:U:H3	1.41	0.68
22:B0:2123:G:H2'	22:B0:2123:G:N3	2.09	0.68
22:B0:2136:G:O6	22:B0:2163:G:O4'	2.11	0.68
22:B0:2161:C:H1'	22:B0:2162:G:O4'	1.94	0.68
33:BH:55:ILE:HG12	33:BH:123:LYS:HB3	1.76	0.68
35:BJ:111:ILE:HD13	35:BJ:111:ILE:N	2.09	0.68
39:BN:64:SER:HA	39:BN:71:ARG:HG2	1.76	0.68
45:BU:40:ARG:HB2	45:BU:40:ARG:HH11	1.59	0.68
22:B0:482:A:H1'	22:B0:498:G:N2	2.09	0.68
22:B0:801:G:O2'	22:B0:802:A:OP1	2.12	0.68
22:B0:1060:U:H5''	22:B0:1061:U:OP1	1.94	0.68
22:B0:2120:G:O5'	22:B0:2121:G:OP1	2.11	0.68
22:B0:2582:G:H2'	22:B0:2582:G:N3	2.08	0.68
26:BA:175:LEU:HD22	26:BA:179:GLU:HB3	1.76	0.68
34:BI:42:THR:HB	34:BI:57:VAL:HG12	1.75	0.68
37:BL:99:LYS:HB3	37:BL:99:LYS:HZ3	1.59	0.68
49:B1:10:LEU:HD12	49:B1:51:ALA:HA	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:23:ASN:HD22	3:AB:24:PRO:CD	2.06	0.67
4:AC:148:ILE:HD13	4:AC:149:LYS:N	2.08	0.67
22:B0:750:A:O2'	22:B0:751:A:C5'	2.41	0.67
22:B0:1153:C:H2'	22:B0:1154:G:O4'	1.94	0.67
22:B0:1497:U:H4'	26:BA:83:ASP:CG	2.15	0.67
22:B0:1772:A:O4'	22:B0:1786:A:H4'	1.94	0.67
22:B0:2154:A:N3	22:B0:2154:A:H2'	2.07	0.67
22:B0:2345:G:H5''	22:B0:2346:A:OP1	1.94	0.67
22:B0:2871:U:H2'	22:B0:2872:A:H8	1.59	0.67
26:BA:152:GLN:O	26:BA:152:GLN:HG3	1.94	0.67
49:B1:29:LYS:H	49:B1:29:LYS:HD2	1.59	0.67
1:AA:1519:A:C2'	1:AA:1520:C:H5'	2.22	0.67
7:AF:51:ILE:HD13	7:AF:85:ILE:HG12	1.75	0.67
22:B0:959:A:C8	36:BK:80:VAL:CG1	2.76	0.67
22:B0:962:G:H1'	22:B0:2497:A:OP2	1.94	0.67
22:B0:1579:A:C8	26:BA:65:ASP:O	2.47	0.67
22:B0:1996:C:C5	27:BB:137:SER:C	2.66	0.67
26:BA:123:ILE:H	26:BA:123:ILE:CD1	2.07	0.67
33:BH:109:LEU:HB2	33:BH:110:PRO:C	2.14	0.67
40:BO:21:LYS:HD2	40:BO:21:LYS:H	1.57	0.67
45:BU:36:ILE:HG23	45:BU:68:PHE:HB3	1.75	0.67
45:BU:79:ILE:HD13	45:BU:80:SER:H	1.59	0.67
3:AB:185:ILE:HG22	3:AB:199:ILE:HB	1.76	0.67
22:B0:120:U:H4'	22:B0:121:G:O5'	1.94	0.67
22:B0:223:A:H4'	22:B0:420:C:O2'	1.94	0.67
22:B0:479:A:H2'	22:B0:480:A:H4'	1.76	0.67
22:B0:1840:G:H1	22:B0:1903:G:H1'	1.59	0.67
22:B0:2024:G:H1	22:B0:2039:U:H3	1.40	0.67
22:B0:2153:C:H5''	22:B0:2154:A:OP1	1.94	0.67
27:BB:142:VAL:HG12	27:BB:144:GLY:H	1.57	0.67
33:BH:96:ARG:HB3	33:BH:98:GLU:N	2.08	0.67
1:AA:703:G:H5''	1:AA:704:A:OP1	1.94	0.67
2:AV:18:G:C2'	2:AV:57:G:H22	2.05	0.67
2:AV:20:G:H2'	2:AV:21:A:H5''	1.75	0.67
6:AE:132:PRO:HG2	6:AE:133:ILE:HD12	1.75	0.67
22:B0:249:C:OP2	22:B0:2394:C:H4'	1.93	0.67
22:B0:1992:G:H22	27:BB:138:LEU:HD11	1.59	0.67
34:BI:43:ILE:CD1	34:BI:53:LYS:HG3	2.24	0.67
16:AO:56:LEU:HB3	16:AO:57:ARG:NH1	2.09	0.67
22:B0:307:G:H21	22:B0:330:A:N6	1.93	0.67
22:B0:856:G:H4'	45:BU:54:ARG:CD	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1128:G:H1'	22:B0:2517:C:H5'	1.77	0.67
22:B0:1996:C:C2	27:BB:138:LEU:O	2.47	0.67
22:B0:2333:A:H4'	22:B0:2334:U:C5'	2.23	0.67
24:B2:30:LYS:HA	24:B2:177:VAL:HG23	1.75	0.67
26:BA:130:PRO:HB2	26:BA:133:ASN:OD1	1.95	0.67
28:BC:97:ASN:HB2	28:BC:100:MET:HB2	1.77	0.67
33:BH:139:VAL:C	33:BH:140:LEU:HD22	2.15	0.67
49:B1:26:LYS:CG	49:B1:28:THR:HG22	2.24	0.67
1:AA:150:U:H3	1:AA:171:A:N6	1.91	0.67
1:AA:419:C:C4'	1:AA:541:G:O2'	2.43	0.67
1:AA:430:A:H1'	1:AA:431:A:C5	2.29	0.67
1:AA:702:A:N6	22:B0:1847:A:H3'	2.09	0.67
1:AA:992:U:O2'	1:AA:993:G:OP2	2.12	0.67
4:AC:110:LEU:HG	4:AC:143:LEU:HD23	1.76	0.67
22:B0:490:C:O2'	22:B0:491:G:OP1	2.12	0.67
22:B0:589:U:P	28:BC:44:ARG:N	2.68	0.67
22:B0:1199:U:H3	22:B0:1246:A:H2	1.40	0.67
22:B0:1495:A:C5'	26:BA:191:LEU:HB2	2.24	0.67
22:B0:2498:C:H2'	22:B0:2499:C:H5'	1.76	0.67
30:BE:40:VAL:HB	30:BE:53:PRO:HG3	1.77	0.67
34:BI:22:ILE:HD11	34:BI:42:THR:HG22	1.77	0.67
22:B0:1582:C:C2	26:BA:96:LYS:HB2	2.30	0.67
22:B0:2678:C:O4'	27:BB:125:TRP:CD1	2.47	0.67
26:BA:241:LYS:HG2	26:BA:242:HIS:H	1.59	0.67
28:BC:96:VAL:HG22	28:BC:97:ASN:HD21	1.59	0.67
1:AA:449:G:H4'	1:AA:450:G:OP1	1.94	0.67
4:AC:106:ARG:HG2	4:AC:107:LYS:HD3	1.75	0.67
9:AH:6:ILE:HB	9:AH:76:ARG:HH11	1.60	0.67
10:AI:117:LEU:HD22	10:AI:123:ARG:HA	1.76	0.67
22:B0:503:A:O5'	22:B0:504:A:OP2	2.12	0.67
22:B0:829:A:H5'	22:B0:831:G:N7	2.10	0.67
22:B0:1580:A:C1'	26:BA:69:ASN:H	2.08	0.67
22:B0:1580:A:C4	26:BA:68:ARG:HA	2.30	0.67
22:B0:2161:C:O5'	22:B0:2162:G:OP1	2.11	0.67
22:B0:2780:G:H5''	22:B0:2781:A:OP2	1.94	0.67
25:B3:86:LEU:HD11	25:B3:93:ALA:O	1.94	0.67
28:BC:134:LEU:HD13	28:BC:137:LYS:NZ	2.09	0.67
33:BH:14:ASP:HB3	33:BH:15:TRP:HE3	1.58	0.67
1:AA:189:A:H2'	1:AA:190:A:C4'	2.24	0.67
19:AR:41:SER:HA	19:AR:44:THR:HG22	1.75	0.67
22:B0:72:U:O2'	46:BW:48:ARG:NH1	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:589:U:H5''	28:BC:44:ARG:HD2	1.76	0.67
22:B0:2484:G:H4'	36:BK:44:ARG:HD3	1.77	0.67
22:B0:2609:U:C2'	22:B0:2610:C:H5'	2.24	0.67
22:B0:2634:A:H61	22:B0:2784:U:H3	1.43	0.67
22:B0:2677:G:H2'	27:BB:125:TRP:CB	2.23	0.67
24:B2:45:VAL:HG12	24:B2:211:VAL:HG13	1.75	0.67
24:B2:104:LYS:NZ	24:B2:126:LEU:HD22	2.09	0.67
22:B0:659:G:H21	28:BC:97:ASN:HB3	1.60	0.67
22:B0:776:G:N2	22:B0:793:A:H62	1.92	0.67
22:B0:857:G:H4'	45:BU:71:LYS:NZ	2.10	0.67
22:B0:1310:G:H2'	22:B0:1311:G:H5'	1.77	0.67
22:B0:1499:U:H1'	26:BA:155:ARG:HH11	1.59	0.67
25:B5:46:GLU:C	25:B5:50:GLU:HG2	2.14	0.67
26:BA:144:GLU:OE1	26:BA:188:ARG:HD2	1.95	0.67
28:BC:31:VAL:HG12	35:BJ:17:LYS:HB3	1.75	0.67
28:BC:48:THR:HG23	28:BC:49:ARG:N	2.09	0.67
29:BD:69:ALA:HB2	29:BD:84:ILE:HD11	1.76	0.67
40:BO:4:LYS:HE2	40:BO:5:ARG:H	1.60	0.67
41:BQ:88:ARG:NH1	41:BQ:92:ARG:HB3	2.09	0.67
45:BU:43:LYS:H	45:BU:43:LYS:NZ	1.91	0.67
1:AA:107:G:H3'	1:AA:108:G:N2	2.06	0.66
1:AA:757:U:H2'	1:AA:758:C:O4'	1.95	0.66
22:B0:776:G:O2'	22:B0:777:G:H5'	1.95	0.66
22:B0:1496:A:C2	22:B0:1498:C:N4	2.62	0.66
22:B0:1579:A:C4	26:BA:67:LYS:N	2.48	0.66
22:B0:1803:A:N6	22:B0:1814:G:N2	2.43	0.66
22:B0:2787:C:O2'	22:B0:2811:G:H1'	1.94	0.66
28:BC:186:VAL:HG22	28:BC:187:VAL:N	2.07	0.66
30:BE:154:GLU:HB2	30:BE:155:PRO:HD3	1.77	0.66
35:BJ:78:ARG:NH1	35:BJ:78:ARG:HB3	2.09	0.66
1:AA:292:G:H1'	1:AA:608:A:H61	1.59	0.66
15:AN:81:ILE:HD12	15:AN:82:LYS:HG2	1.77	0.66
22:B0:492:A:H3'	41:BQ:9:HIS:CA	2.17	0.66
22:B0:958:U:H5	36:BK:82:MET:N	1.92	0.66
22:B0:1584:U:O2	26:BA:76:VAL:HG21	1.95	0.66
22:B0:2144:G:C2'	22:B0:2145:C:H5''	2.23	0.66
22:B0:2167:U:O4	22:B0:2170:A:N7	2.27	0.66
26:BA:67:LYS:HZ2	26:BA:188:ARG:NH2	1.91	0.66
37:BL:42:LYS:HD3	37:BL:43:GLU:N	2.11	0.66
38:BM:37:ALA:HB3	38:BM:78:VAL:HG21	1.77	0.66
40:BO:2:ARG:NE	40:BO:2:ARG:N	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:44:LYS:CE	46:BW:48:ARG:HH21	2.08	0.66
1:AA:420:U:OP1	1:AA:512:U:H1'	1.94	0.66
1:AA:512:U:H2'	1:AA:513:C:C6	2.29	0.66
1:AA:1099:G:C2	1:AA:1100:C:H1'	2.30	0.66
22:B0:731:C:H2'	22:B0:732:C:H6	1.61	0.66
22:B0:958:U:H2'	36:BK:79:ALA:C	2.15	0.66
22:B0:1444:A:H3'	22:B0:1445:U:C5'	2.24	0.66
22:B0:2478:A:H4'	22:B0:2528:U:H4'	1.76	0.66
22:B0:2542:A:H5''	22:B0:2543:G:OP1	1.95	0.66
22:B0:2897:U:O2'	33:BH:16:TYR:HA	1.95	0.66
30:BE:97:VAL:HA	30:BE:102:ILE:HG22	1.77	0.66
1:AA:407:U:OP1	5:AD:5:GLY:HA2	1.95	0.66
1:AA:889:A:N1	1:AA:907:A:H5''	2.10	0.66
1:AA:1336:C:H5'	1:AA:1337:G:OP1	1.95	0.66
1:AA:1385:G:H2'	10:AI:128:LYS:NZ	2.09	0.66
2:AU:18:G:C2'	2:AU:57:G:H22	2.08	0.66
3:AB:46:VAL:HB	3:AB:47:PRO:HD3	1.76	0.66
4:AC:54:ILE:HD13	4:AC:54:ILE:N	2.11	0.66
14:AM:16:ILE:HG12	14:AM:19:THR:HB	1.76	0.66
22:B0:1201:U:H2'	35:BJ:14:LYS:CE	2.25	0.66
22:B0:1322:A:H5''	41:BQ:82:MET:SD	2.36	0.66
22:B0:2121:G:H1'	22:B0:2122:U:C5	2.29	0.66
26:BA:63:ILE:HD12	26:BA:63:ILE:N	2.10	0.66
33:BH:35:ARG:CZ	33:BH:39:LYS:HE2	2.26	0.66
38:BM:8:ILE:HD12	38:BM:8:ILE:H	1.61	0.66
40:BO:57:ARG:HH21	40:BO:91:ARG:HH22	1.42	0.66
42:BR:16:VAL:HG12	42:BR:17:SER:N	2.09	0.66
1:AA:383:A:H5''	1:AA:455:G:OP1	1.96	0.66
1:AA:429:U:C5	1:AA:431:A:OP2	2.49	0.66
16:AO:56:LEU:HD23	22:B0:715:A:N7	2.10	0.66
22:B0:1496:A:O5'	26:BA:190:THR:HG23	1.95	0.66
22:B0:2124:G:H2'	22:B0:2125:G:C5'	2.20	0.66
22:B0:2192:U:H2'	22:B0:2193:G:H8	1.59	0.66
22:B0:2296:U:H5''	22:B0:2297:A:OP1	1.95	0.66
22:B0:2391:G:N2	22:B0:2427:C:H4'	2.11	0.66
28:BC:32:VAL:CB	35:BJ:17:LYS:HD3	2.25	0.66
39:BN:30:TRP:HZ3	39:BN:85:VAL:HB	1.61	0.66
39:BN:88:ARG:H	39:BN:88:ARG:NH1	1.93	0.66
42:BR:72:GLN:HA	42:BR:72:GLN:HE21	1.59	0.66
1:AA:1130:A:H5''	10:AI:17:ARG:NH1	2.11	0.66
1:AA:1302:C:C5'	14:AM:16:ILE:HG13	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:25:LYS:HE3	6:AE:25:LYS:HA	1.77	0.66
8:AG:148:LYS:HG2	12:AK:60:PHE:HE1	1.59	0.66
22:B0:959:A:O2'	22:B0:2495:G:O2'	2.13	0.66
22:B0:1455:U:H2'	37:BL:63:ARG:HD3	1.78	0.66
22:B0:1578:U:H5''	26:BA:101:ARG:CZ	2.25	0.66
22:B0:1580:A:O2'	22:B0:1581:A:H5'	1.95	0.66
22:B0:2096:C:H2'	22:B0:2097:A:H8	1.61	0.66
22:B0:2286:G:H1	49:B1:35:LEU:CD1	2.09	0.66
30:BE:25:ILE:HD13	30:BE:26:LYS:N	2.09	0.66
33:BH:16:TYR:O	33:BH:17:VAL:CG1	2.41	0.66
36:BK:126:ILE:HD13	36:BK:127:LYS:N	2.09	0.66
1:AA:274:A:H5''	1:AA:275:G:OP1	1.96	0.66
1:AA:1360:A:N1	20:AS:6:LYS:HE3	2.11	0.66
22:B0:304:U:H3	22:B0:313:G:H1	1.43	0.66
22:B0:523:C:O2'	22:B0:555:U:H5'	1.95	0.66
22:B0:529:A:H5''	22:B0:530:G:OP1	1.95	0.66
22:B0:1040:A:H2	22:B0:1115:G:H1	1.44	0.66
22:B0:1499:U:H3	22:B0:1500:A:N6	1.93	0.66
22:B0:1578:U:HO2'	26:BA:65:ASP:C	1.99	0.66
22:B0:2128:G:O5'	22:B0:2165:C:H3'	1.94	0.66
22:B0:2895:C:H41	33:BH:13:ARG:NH1	1.94	0.66
28:BC:63:LYS:HB2	28:BC:63:LYS:NZ	2.11	0.66
32:BG:133:ARG:CG	32:BG:137:LEU:HB3	2.24	0.66
42:BR:12:ARG:HB2	42:BR:33:LYS:HB2	1.78	0.66
1:AA:952:U:H2'	1:AA:953:G:H8	1.60	0.66
7:AF:22:ILE:HD13	7:AF:22:ILE:O	1.96	0.66
7:AF:47:LEU:HD11	7:AF:57:ALA:HB2	1.77	0.66
19:AR:11:ARG:HD3	19:AR:46:THR:HG22	1.78	0.66
22:B0:204:A:O2'	22:B0:205:G:H1'	1.96	0.66
24:B2:28:LEU:O	24:B2:32:LEU:HG	1.96	0.66
29:BD:25:MET:HG2	29:BD:26:GLN:HG3	1.77	0.66
32:BG:50:LYS:HD2	32:BG:51:GLY:N	2.11	0.66
34:BI:19:VAL:HG22	34:BI:43:ILE:HG22	1.76	0.66
44:BT:88:HIS:C	44:BT:89:ILE:HD12	2.16	0.66
1:AA:406:G:H2'	1:AA:407:U:C6	2.31	0.66
1:AA:418:C:C3'	1:AA:541:G:H8	2.09	0.66
2:AV:47:U:N3	2:AV:50:U:H5''	2.11	0.66
4:AC:112:ALA:HB1	4:AC:184:ASN:ND2	2.10	0.66
22:B0:65:U:H5''	42:BR:74:ILE:CG1	2.25	0.66
22:B0:846:U:O2'	22:B0:848:C:O4'	2.14	0.66
22:B0:891:G:H3'	22:B0:891:G:N3	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1698:A:H4'	22:B0:1699:G:O5'	1.95	0.66
24:B2:59:ARG:CZ	24:B2:163:ARG:HD2	2.26	0.66
27:BB:110:THR:HG22	27:BB:202:ILE:HD11	1.78	0.66
33:BH:17:VAL:HG23	33:BH:18:VAL:N	2.10	0.66
36:BK:6:ARG:H	36:BK:71:LYS:HG3	1.61	0.66
43:BS:5:ARG:HB2	43:BS:8:ASP:OD2	1.94	0.66
1:AA:405:U:H3'	1:AA:406:G:H5'	1.78	0.66
1:AA:410:G:H2'	1:AA:410:G:N3	2.11	0.66
1:AA:419:C:C2'	5:AD:39:GLN:CG	2.74	0.66
1:AA:547:A:H4'	1:AA:548:G:O4'	1.96	0.66
1:AA:1347:G:OP2	1:AA:1347:G:O4'	2.14	0.66
2:AU:74:C:H3'	22:B0:2557:G:O4'	1.96	0.66
4:AC:137:VAL:HA	4:AC:148:ILE:HD12	1.78	0.66
13:AL:41:PRO:HD2	13:AL:47:ALA:H	1.59	0.66
16:AO:56:LEU:HD12	16:AO:57:ARG:HD3	1.78	0.66
22:B0:586:A:H5''	28:BC:79:ARG:H	1.61	0.66
22:B0:712:G:H2'	22:B0:713:G:C8	2.30	0.66
22:B0:1246:A:H5''	35:BJ:26:GLY:N	2.11	0.66
22:B0:1668:A:H61	22:B0:1676:A:N6	1.94	0.66
27:BB:5:VAL:HG22	27:BB:202:ILE:HG22	1.78	0.66
29:BD:174:PHE:HB3	29:BD:175:PRO:HA	1.78	0.66
34:BI:17:ARG:HA	34:BI:17:ARG:HE	1.61	0.66
40:BO:43:GLN:O	40:BO:45:ALA:N	2.28	0.66
41:BQ:11:ARG:N	41:BQ:11:ARG:NE	2.43	0.66
46:BW:42:LEU:H	46:BW:42:LEU:HD13	1.59	0.66
1:AA:266:G:H5'	1:AA:267:C:OP1	1.94	0.65
1:AA:1169:A:H2'	1:AA:1171:A:O4'	1.95	0.65
1:AA:1404:C:O2'	1:AA:1519:A:H4'	1.96	0.65
2:AW:18:G:H5''	2:AW:60:C:C2	2.31	0.65
5:AD:141:VAL:HG12	5:AD:180:THR:HG22	1.78	0.65
22:B0:494:G:O4'	41:BQ:7:HIS:O	2.14	0.65
22:B0:764:A:O2'	22:B0:765:C:OP1	2.14	0.65
22:B0:807:U:H2'	22:B0:808:G:C8	2.31	0.65
22:B0:1990:C:H2'	22:B0:1991:U:C6	2.31	0.65
37:BL:113:ILE:O	37:BL:114:GLU:HG2	1.96	0.65
39:BN:62:LYS:HA	39:BN:62:LYS:HZ3	1.58	0.65
40:BO:30:VAL:HB	40:BO:33:VAL:HG22	1.77	0.65
41:BQ:5:ALA:N	41:BQ:54:ALA:HA	2.11	0.65
45:BU:28:GLU:OE2	45:BU:61:LYS:HE2	1.96	0.65
1:AA:370:C:O2'	1:AA:484:G:H5''	1.96	0.65
2:AV:20:G:H3'	2:AV:21:A:C5'	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:51:G:H1'	22:B0:118:A:H62	1.61	0.65
22:B0:120:U:O2'	22:B0:121:G:OP2	2.11	0.65
22:B0:196:A:N3	22:B0:196:A:H2'	2.11	0.65
22:B0:800:A:C8	28:BC:56:GLY:N	2.65	0.65
27:BB:177:VAL:HG13	27:BB:187:LEU:HD11	1.78	0.65
28:BC:178:VAL:HG13	28:BC:179:SER:N	2.08	0.65
31:BF:29:PHE:O	31:BF:33:GLN:HG2	1.96	0.65
33:BH:114:LEU:H	33:BH:114:LEU:CD1	2.08	0.65
42:BR:12:ARG:HB3	42:BR:12:ARG:NH1	2.11	0.65
1:AA:432:A:H2'	1:AA:433:G:O4'	1.96	0.65
1:AA:1237:C:C2'	1:AA:1334:G:H1'	2.27	0.65
1:AA:1239:A:H5'	1:AA:1240:U:OP1	1.96	0.65
22:B0:596:U:H2'	22:B0:597:G:C8	2.31	0.65
22:B0:841:G:N1	22:B0:938:G:N2	2.44	0.65
22:B0:1143:A:H5''	22:B0:1144:A:OP2	1.97	0.65
22:B0:1300:G:O2'	22:B0:1301:A:OP2	2.12	0.65
22:B0:1495:A:N1	26:BA:64:VAL:HG13	2.11	0.65
22:B0:2438:U:C5'	22:B0:2600:A:H4'	2.26	0.65
22:B0:2885:G:H2'	22:B0:2886:A:O4'	1.96	0.65
28:BC:79:ARG:HD2	28:BC:79:ARG:O	1.96	0.65
34:BI:41:ILE:HD13	34:BI:41:ILE:H	1.59	0.65
37:BL:17:ARG:C	37:BL:17:ARG:HE	2.00	0.65
41:BQ:11:ARG:NE	41:BQ:11:ARG:H	1.93	0.65
1:AA:407:U:H4'	5:AD:4:LEU:HD11	1.78	0.65
10:AI:50:PRO:HB3	10:AI:83:THR:HG22	1.78	0.65
13:AL:106:VAL:HG23	13:AL:116:TYR:HB3	1.77	0.65
22:B0:204:A:H5''	22:B0:205:G:OP1	1.95	0.65
22:B0:858:G:N3	22:B0:2268:A:H2'	2.10	0.65
22:B0:961:C:H3'	22:B0:2497:A:H4'	1.78	0.65
22:B0:2161:C:H1'	22:B0:2162:G:H1'	1.78	0.65
24:B2:41:VAL:HA	24:B2:215:THR:HA	1.78	0.65
28:BC:74:LYS:HB2	28:BC:74:LYS:NZ	2.11	0.65
40:BO:27:ARG:HE	40:BO:33:VAL:CB	2.05	0.65
46:BW:1:MET:HE1	46:BW:21:LEU:HD21	1.78	0.65
12:AK:15:VAL:HB	12:AK:78:ILE:HG12	1.79	0.65
16:AO:24:THR:HG21	16:AO:69:LEU:HB2	1.79	0.65
22:B0:27:G:H1'	22:B0:513:A:N6	2.11	0.65
22:B0:1046:A:H1'	25:B5:25:ALA:C	2.16	0.65
22:B0:1660:G:H2'	22:B0:1661:G:C8	2.31	0.65
22:B0:2062:A:N3	22:B0:2062:A:H2'	2.11	0.65
22:B0:2478:A:H4'	22:B0:2528:U:C5'	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B9:97:C:H2'	23:B9:98:G:O4'	1.96	0.65
30:BE:18:ILE:HD13	30:BE:19:ASN:N	2.12	0.65
41:BQ:18:ARG:HG2	41:BQ:19:LEU:H	1.62	0.65
41:BQ:83:LYS:HB3	41:BQ:83:LYS:NZ	2.12	0.65
42:BR:67:VAL:HG12	42:BR:68:LYS:N	2.08	0.65
44:BT:29:ILE:HD13	44:BT:30:ILE:N	2.12	0.65
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.32	0.65
4:AC:137:VAL:HG13	4:AC:148:ILE:HG23	1.76	0.65
6:AE:140:ILE:HD12	6:AE:141:ASP:N	2.12	0.65
6:AE:155:LYS:HB3	9:AH:68:LYS:HZ2	1.61	0.65
14:AM:97:ARG:HH21	14:AM:108:ARG:HG3	1.62	0.65
22:B0:241:A:O3'	22:B0:242:G:H4'	1.97	0.65
22:B0:478:A:H5'	43:BS:30:SER:CB	2.27	0.65
22:B0:589:U:H2'	28:BC:48:THR:HB	1.77	0.65
22:B0:602:A:H1'	22:B0:656:G:N2	2.10	0.65
22:B0:822:G:N2	22:B0:2357:G:H22	1.95	0.65
22:B0:1140:C:H4'	22:B0:1143:A:C5	2.31	0.65
22:B0:1494:A:O5'	26:BA:173:LEU:HD22	1.96	0.65
22:B0:1495:A:H2	26:BA:65:ASP:HB2	1.58	0.65
22:B0:1583:G:C4	26:BA:96:LYS:HG2	2.31	0.65
22:B0:2160:C:H5''	22:B0:2162:G:OP1	1.96	0.65
28:BC:3:LEU:HD21	28:BC:113:VAL:HG12	1.78	0.65
33:BH:37:ARG:HD3	33:BH:37:ARG:N	2.12	0.65
1:AA:960:U:O2'	1:AA:961:U:OP2	2.13	0.65
1:AA:1139:G:H5'	1:AA:1140:C:OP1	1.97	0.65
10:AI:113:LYS:HA	10:AI:120:ALA:HB2	1.77	0.65
22:B0:72:U:O4	22:B0:112:U:H1'	1.96	0.65
22:B0:848:C:H2'	22:B0:849:A:O4'	1.96	0.65
22:B0:1500:A:N6	26:BA:156:SER:HA	2.11	0.65
22:B0:1532:U:H2'	22:B0:1533:C:C5	2.32	0.65
22:B0:1819:A:H1'	22:B0:1821:A:C5	2.30	0.65
25:B3:46:GLU:HA	25:B3:47:ALA:HA	1.78	0.65
26:BA:99:GLU:O	26:BA:100:ARG:HB3	1.96	0.65
26:BA:241:LYS:HG2	26:BA:242:HIS:N	2.11	0.65
28:BC:32:VAL:HB	35:BJ:17:LYS:NZ	2.11	0.65
28:BC:34:ALA:HB3	35:BJ:18:ARG:HB2	1.79	0.65
37:BL:42:LYS:HD3	37:BL:43:GLU:HG3	1.79	0.65
45:BU:46:ALA:HB1	45:BU:76:ARG:H	1.59	0.65
1:AA:1305:G:N2	1:AA:1331:G:H2'	2.12	0.65
4:AC:27:GLU:HG3	4:AC:31:ASN:OD1	1.97	0.65
22:B0:1047:G:H4'	25:B5:30:PHE:HE2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1413:U:H2'	22:B0:1414:G:O4'	1.97	0.65
22:B0:1579:A:H8	26:BA:188:ARG:HD3	1.60	0.65
22:B0:2364:C:H2'	22:B0:2365:G:C8	2.30	0.65
22:B0:2855:C:H2'	22:B0:2856:A:H5''	1.79	0.65
24:B2:54:SER:HA	24:B2:57:ASN:ND2	2.11	0.65
28:BC:171:ASP:O	28:BC:175:ILE:HG23	1.96	0.65
33:BH:96:ARG:CB	33:BH:97:PRO:HA	2.26	0.65
1:AA:509:A:N3	1:AA:543:U:O2'	2.27	0.65
1:AA:979:C:H5'	20:AS:5:LYS:NZ	2.11	0.65
1:AA:1052:U:H2'	1:AA:1200:C:N4	2.12	0.65
1:AA:1148:U:P	10:AI:10:ARG:HH21	2.19	0.65
2:AV:16:U:O2'	2:AV:17:U:H5''	1.97	0.65
7:AF:10:VAL:HG11	7:AF:21:MET:SD	2.36	0.65
16:AO:46:LYS:H	16:AO:46:LYS:HD2	1.61	0.65
22:B0:1423:A:H2'	22:B0:1424:G:H8	1.62	0.65
22:B0:1490:C:H4'	26:BA:162:GLN:N	2.11	0.65
22:B0:2128:G:C5'	22:B0:2165:C:H3'	2.27	0.65
22:B0:2884:U:C6	48:BZ:51:ARG:HD3	2.32	0.65
25:B3:90:ALA:N	25:B3:91:PRO:HD3	2.11	0.65
25:B5:57:ILE:HG12	25:B5:120:LYS:NZ	2.10	0.65
26:BA:171:VAL:HG22	26:BA:172:THR:N	2.10	0.65
30:BE:157:LYS:HE2	30:BE:162:ARG:HG3	1.79	0.65
33:BH:93:ILE:HD11	33:BH:96:ARG:HE	1.62	0.65
36:BK:6:ARG:HB3	36:BK:10:ARG:HH22	1.62	0.65
42:BR:74:ILE:HD12	42:BR:76:ARG:NH2	2.12	0.65
45:BU:66:VAL:HG22	45:BU:67:LYS:N	2.10	0.65
1:AA:483:C:H5''	1:AA:484:G:O3'	1.97	0.65
19:AR:7:ARG:H	19:AR:7:ARG:HH11	1.44	0.65
22:B0:100:U:H5''	22:B0:102:U:OP2	1.97	0.65
22:B0:663:G:H5''	28:BC:87:ALA:CB	2.27	0.65
22:B0:836:G:O6	22:B0:943:A:H1'	1.96	0.65
22:B0:2058:A:O2'	22:B0:2059:A:OP1	2.15	0.65
23:B9:32:U:H5''	29:BD:8:LYS:NZ	2.12	0.65
28:BC:88:ARG:CZ	35:BJ:30:THR:HA	2.26	0.65
28:BC:90:GLN:HG2	35:BJ:27:LEU:HD12	1.77	0.65
36:BK:40:ARG:HB3	36:BK:93:VAL:HG21	1.79	0.65
37:BL:25:ALA:HA	37:BL:28:LEU:HD21	1.78	0.65
41:BQ:12:SER:HB3	41:BQ:17:VAL:CG2	2.27	0.65
41:BQ:102:HIS:HE2	41:BQ:104:THR:HG1	1.45	0.65
45:BU:39:GLN:HG2	45:BU:68:PHE:HA	1.78	0.65
47:BX:21:ALA:HA	47:BX:24:LEU:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:119:A:H4'	1:AA:120:A:O4'	1.97	0.64
1:AA:545:C:C4'	1:AA:549:C:C4'	2.47	0.64
1:AA:553:A:H1'	13:AL:27:PRO:HG3	1.77	0.64
1:AA:888:G:H1'	1:AA:909:A:H61	1.61	0.64
8:AG:108:ARG:HA	8:AG:118:ARG:CZ	2.27	0.64
9:AH:10:LEU:HD21	9:AH:74:ILE:O	1.98	0.64
12:AK:78:ILE:HG21	12:AK:81:LEU:HD21	1.79	0.64
16:AO:59:VAL:HG11	22:B0:715:A:H5'	1.80	0.64
22:B0:488:G:H1'	22:B0:493:G:O6	1.97	0.64
22:B0:603:A:H4'	22:B0:604:G:C4'	2.27	0.64
22:B0:670:A:H1'	28:BC:74:LYS:HG2	1.78	0.64
22:B0:675:A:H1'	22:B0:2443:C:O2'	1.96	0.64
22:B0:2138:G:H4'	22:B0:2139:U:O5'	1.97	0.64
22:B0:2150:C:H5''	22:B0:2151:U:OP1	1.97	0.64
22:B0:2450:A:C5'	22:B0:2497:A:H62	2.10	0.64
24:B2:26:ILE:HG23	24:B2:184:LEU:HD12	1.77	0.64
28:BC:193:VAL:O	28:BC:197:GLU:HG3	1.97	0.64
33:BH:27:ARG:NE	33:BH:27:ARG:HA	2.13	0.64
35:BJ:78:ARG:HD3	35:BJ:126:ARG:HH12	1.62	0.64
38:BM:56:LYS:HE2	38:BM:73:ALA:HB1	1.80	0.64
48:BZ:31:LYS:H	48:BZ:31:LYS:CD	2.08	0.64
1:AA:1302:C:H5'	14:AM:16:ILE:CG1	2.26	0.64
5:AD:169:TRP:CD1	5:AD:170:LEU:HG	2.32	0.64
11:AJ:40:ILE:HG13	11:AJ:42:LEU:CD2	2.27	0.64
20:AS:16:LYS:O	20:AS:20:LYS:HG3	1.95	0.64
22:B0:478:A:H1'	43:BS:32:LYS:NZ	2.12	0.64
22:B0:529:A:H4'	22:B0:530:G:H5'	1.79	0.64
22:B0:2866:U:H1'	22:B0:2868:A:H1'	1.79	0.64
25:B5:81:LYS:H	25:B5:81:LYS:CD	2.09	0.64
26:BA:93:VAL:HG12	26:BA:115:ILE:HD11	1.78	0.64
39:BN:87:ARG:C	39:BN:88:ARG:HD3	2.17	0.64
1:AA:129:A:H2	1:AA:232:G:H1	1.46	0.64
2:AU:75:C:C5'	22:B0:2557:G:H8	2.10	0.64
17:AP:45:GLU:HG3	17:AP:46:LYS:N	2.12	0.64
22:B0:589:U:H2'	28:BC:47:LYS:O	1.98	0.64
22:B0:669:G:H5''	22:B0:670:A:N1	2.13	0.64
22:B0:1763:G:H2'	22:B0:1764:C:H4'	1.79	0.64
22:B0:2054:A:OP1	22:B0:2055:C:H4'	1.97	0.64
22:B0:2163:G:H2'	22:B0:2164:C:C6	2.32	0.64
26:BA:74:PRO:HA	26:BA:116:GLN:HG2	1.80	0.64
27:BB:165:MET:CE	27:BB:166:GLY:H	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:35:TYR:CE2	35:BJ:18:ARG:HA	2.32	0.64
28:BC:88:ARG:HB2	35:BJ:30:THR:HB	1.80	0.64
32:BG:108:ILE:HD13	32:BG:108:ILE:N	2.11	0.64
39:BN:107:ALA:O	39:BN:111:GLU:HG2	1.96	0.64
40:BO:16:ILE:HD12	40:BO:19:GLN:HE22	1.62	0.64
40:BO:49:ARG:HH11	40:BO:49:ARG:HG3	1.62	0.64
42:BR:68:LYS:HD3	42:BR:69:ARG:N	2.12	0.64
42:BR:74:ILE:HG23	42:BR:76:ARG:CZ	2.27	0.64
45:BU:54:ARG:NH1	45:BU:55:ASP:H	1.94	0.64
5:AD:100:VAL:O	5:AD:104:MET:HG3	1.97	0.64
6:AE:114:LEU:HD13	6:AE:122:VAL:HG11	1.79	0.64
14:AM:11:HIS:H	14:AM:44:ILE:HD11	1.63	0.64
22:B0:476:G:H4'	22:B0:501:A:N6	2.13	0.64
22:B0:1493:A:N6	26:BA:187:CYS:H	1.95	0.64
22:B0:2164:C:C1'	22:B0:2165:C:H1'	2.27	0.64
22:B0:2511:U:H2'	22:B0:2578:G:N2	2.11	0.64
22:B0:2529:G:OP2	22:B0:2530:A:H8	1.80	0.64
22:B0:2624:G:OP1	22:B0:2826:A:H4'	1.98	0.64
22:B0:2734:A:H2'	22:B0:2735:G:O4'	1.97	0.64
42:BR:95:PHE:CD2	42:BR:96:VAL:HG23	2.32	0.64
49:B1:34:GLU:CD	49:B1:34:GLU:H	2.01	0.64
1:AA:500:G:H2'	1:AA:501:C:C6	2.33	0.64
1:AA:1038:C:H2'	1:AA:1039:G:H8	1.63	0.64
22:B0:293:U:H2'	22:B0:295:G:C8	2.33	0.64
22:B0:1421:G:H1'	26:BA:146:LYS:HB3	1.80	0.64
22:B0:1491:A:C8	26:BA:175:LEU:CB	2.77	0.64
22:B0:1493:A:OP1	26:BA:143:VAL:HG21	1.97	0.64
22:B0:1579:A:O5'	26:BA:65:ASP:HA	1.97	0.64
22:B0:1654:A:H2'	22:B0:1655:A:H8	1.62	0.64
22:B0:1716:U:H3	22:B0:1743:G:H1	1.45	0.64
22:B0:1887:C:H3'	22:B0:1888:G:H21	1.62	0.64
22:B0:2381:A:H2'	22:B0:2382:G:H5'	1.78	0.64
26:BA:175:LEU:HD23	26:BA:178:GLY:C	2.17	0.64
28:BC:45:ALA:O	28:BC:46:GLN:HB2	1.97	0.64
28:BC:149:ILE:HG22	28:BC:150:THR:N	2.13	0.64
32:BG:57:VAL:C	32:BG:58:ILE:HD12	2.18	0.64
37:BL:96:ARG:HH22	37:BL:114:GLU:HG3	1.62	0.64
39:BN:47:ILE:HD12	39:BN:63:ILE:HD12	1.78	0.64
40:BO:43:GLN:HA	40:BO:46:TYR:HB3	1.77	0.64
1:AA:817:C:H4'	1:AA:818:G:O5'	1.95	0.64
1:AA:981:U:C4	20:AS:5:LYS:HE3	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1394:A:N6	1:AA:1501:C:H5'	2.13	0.64
2:AV:18:G:O2'	2:AV:57:G:N2	2.30	0.64
4:AC:130:ARG:NE	6:AE:53:ARG:HD3	2.13	0.64
9:AH:46:GLU:HB3	9:AH:61:THR:HG23	1.80	0.64
22:B0:1008:A:C4'	22:B0:1009:A:H5'	2.18	0.64
22:B0:1060:U:C1'	22:B0:1062:G:H5'	2.27	0.64
22:B0:1249:U:H2'	22:B0:1250:G:C8	2.33	0.64
22:B0:1602:U:H5''	22:B0:1603:A:OP2	1.98	0.64
22:B0:2853:C:H2'	22:B0:2854:G:C8	2.33	0.64
25:B3:23:ILE:HD12	25:B3:24:SER:N	2.13	0.64
32:BG:18:ASN:ND2	32:BG:19:PRO:HA	2.13	0.64
32:BG:60:VAL:HG12	32:BG:61:TYR:HD1	1.62	0.64
33:BH:136:GLN:N	33:BH:137:PRO:HD3	2.12	0.64
35:BJ:99:ASN:HB2	35:BJ:101:ILE:HG22	1.80	0.64
37:BL:98:LEU:HB3	48:BZ:52:LYS:HG2	1.80	0.64
45:BU:13:ARG:HE	45:BU:13:ARG:C	2.01	0.64
45:BU:42:THR:HG22	45:BU:75:ASN:HA	1.77	0.64
1:AA:47:C:H4'	1:AA:48:C:OP1	1.98	0.64
2:AV:20:G:N2	2:AV:22:G:H5'	2.11	0.64
3:AB:119:GLN:HG3	3:AB:124:THR:HG23	1.80	0.64
4:AC:6:PRO:O	4:AC:10:ARG:HG2	1.98	0.64
21:AT:31:ILE:O	21:AT:31:ILE:HD13	1.97	0.64
22:B0:165:A:H4'	22:B0:172:A:C8	2.32	0.64
22:B0:2176:A:H5'	24:B2:166:LYS:N	2.12	0.64
22:B0:2756:U:H4'	22:B0:2757:A:O5'	1.96	0.64
28:BC:6:LYS:HE3	28:BC:119:ILE:HG12	1.79	0.64
37:BL:64:ARG:NH2	37:BL:67:PHE:HB3	2.01	0.64
49:B1:42:VAL:HG22	49:B1:43:ARG:N	2.09	0.64
1:AA:496:A:H4'	1:AA:497:G:O5'	1.95	0.64
1:AA:1009:U:H3	1:AA:1020:G:H22	1.45	0.64
2:AW:3:G:H5''	22:B0:1880:U:H5''	1.79	0.64
5:AD:59:LYS:O	5:AD:63:ILE:HG13	1.97	0.64
10:AI:49:GLN:N	10:AI:50:PRO:HD2	2.13	0.64
12:AK:24:ALA:HA	12:AK:29:THR:HG22	1.78	0.64
15:AN:63:CYS:HB3	15:AN:67:GLY:H	1.62	0.64
16:AO:61:GLN:O	16:AO:65:LEU:HG	1.98	0.64
19:AR:28:LEU:HB3	19:AR:67:LEU:HD11	1.79	0.64
22:B0:590:A:N7	28:BC:47:LYS:HA	2.11	0.64
22:B0:855:G:H1	22:B0:922:C:N4	1.96	0.64
22:B0:960:A:H3'	22:B0:2496:C:C4'	2.28	0.64
22:B0:1201:U:C2'	35:BJ:14:LYS:HG2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1357:C:H2'	22:B0:1358:G:C8	2.33	0.64
22:B0:1579:A:H5''	26:BA:66:PHE:O	1.98	0.64
22:B0:2157:G:O2'	22:B0:2158:A:O5'	2.08	0.64
22:B0:2177:C:OP2	24:B2:167:ASN:HA	1.98	0.64
22:B0:2520:C:O2	22:B0:2565:A:H4'	1.98	0.64
26:BA:76:VAL:O	26:BA:94:LEU:HB2	1.98	0.64
26:BA:91:ALA:HB2	26:BA:105:ALA:HB2	1.80	0.64
28:BC:36:ALA:HB2	35:BJ:18:ARG:HH11	1.63	0.64
28:BC:90:GLN:CB	35:BJ:27:LEU:HB2	2.28	0.64
29:BD:168:LEU:HD12	29:BD:169:LEU:N	2.13	0.64
33:BH:36:LEU:HD12	33:BH:52:ASP:N	2.11	0.64
39:BN:105:LYS:HD3	39:BN:110:LYS:HE2	1.78	0.64
1:AA:34:C:H2'	1:AA:35:G:H8	1.63	0.64
1:AA:320:A:H2'	1:AA:321:A:C8	2.33	0.64
1:AA:406:G:H2'	1:AA:407:U:H6	1.61	0.64
1:AA:837:U:H2'	1:AA:838:G:H8	1.62	0.64
1:AA:888:G:H1'	1:AA:909:A:N6	2.12	0.64
2:AU:19:G:H5''	2:AU:20:G:OP2	1.98	0.64
9:AH:9:MET:O	9:AH:13:ILE:HG12	1.97	0.64
22:B0:503:A:H4'	22:B0:504:A:OP1	1.97	0.64
22:B0:854:C:H2'	22:B0:855:G:C8	2.32	0.64
22:B0:1105:U:H2'	22:B0:1106:G:H8	1.62	0.64
22:B0:1495:A:OP1	26:BA:190:THR:O	2.15	0.64
22:B0:2262:U:O2	45:BU:10:ARG:HG2	1.98	0.64
22:B0:2873:A:H2'	22:B0:2873:A:N3	2.13	0.64
28:BC:89:PRO:O	28:BC:90:GLN:HG3	1.98	0.64
29:BD:91:ARG:HB2	29:BD:91:ARG:HH11	1.62	0.64
31:BF:30:LEU:H	31:BF:30:LEU:HD12	1.62	0.64
43:BS:34:ILE:HB	43:BS:61:GLU:CG	2.28	0.64
1:AA:80:A:H3'	1:AA:81:A:C5'	2.28	0.64
1:AA:482:A:O2'	1:AA:483:C:OP1	2.15	0.64
1:AA:666:G:H4'	1:AA:731:G:H22	1.63	0.64
1:AA:1182:G:H4'	1:AA:1183:U:H5''	1.79	0.64
1:AA:1221:G:N3	20:AS:1:PRO:HB2	2.12	0.64
6:AE:133:ILE:O	6:AE:137:ARG:HD3	1.98	0.64
16:AO:56:LEU:HD23	22:B0:715:A:C5	2.32	0.64
18:AQ:20:ILE:HD13	18:AQ:47:ASP:HB3	1.80	0.64
18:AQ:64:ARG:HD2	18:AQ:65:PRO:HD2	1.80	0.64
20:AS:11:ASP:HB2	20:AS:14:LEU:HG	1.80	0.64
20:AS:40:PHE:HA	20:AS:66:VAL:HG13	1.80	0.64
22:B0:1655:A:H2	22:B0:2049:G:H5''	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2296:U:C4'	22:B0:2297:A:H5'	2.25	0.64
22:B0:2364:C:H2'	22:B0:2365:G:H8	1.61	0.64
22:B0:2678:C:O5'	27:BB:125:TRP:HD1	1.80	0.64
25:B3:58:LEU:HD21	25:B3:87:VAL:HG13	1.78	0.64
25:B5:57:ILE:HG23	25:B5:92:ALA:HB1	1.80	0.64
28:BC:157:LEU:HD23	28:BC:157:LEU:H	1.62	0.64
29:BD:109:ARG:HA	29:BD:109:ARG:NE	2.13	0.64
46:BW:44:LYS:HE2	46:BW:48:ARG:HH21	1.63	0.64
1:AA:508:U:H5''	1:AA:509:A:OP1	1.97	0.63
4:AC:63:ILE:HD13	4:AC:64:ARG:H	1.61	0.63
6:AE:102:THR:HB	6:AE:121:ASN:HB3	1.78	0.63
7:AF:8:PHE:HB3	7:AF:60:VAL:CG2	2.28	0.63
15:AN:40:ARG:NH1	20:AS:17:LYS:HB3	2.12	0.63
22:B0:331:C:H5''	22:B0:332:A:OP2	1.98	0.63
22:B0:1899:A:H2	22:B0:1902:C:H41	1.45	0.63
22:B0:2198:A:O2'	22:B0:2199:A:H5'	1.97	0.63
24:B2:69:GLY:O	24:B2:156:LYS:HD2	1.98	0.63
24:B2:138:ASN:OD1	24:B2:140:LYS:HG2	1.97	0.63
28:BC:117:ARG:HA	28:BC:185:LYS:HZ2	1.63	0.63
33:BH:99:ARG:HA	33:BH:99:ARG:CZ	2.28	0.63
34:BI:95:ILE:HD13	34:BI:95:ILE:O	1.97	0.63
40:BO:56:PHE:C	40:BO:58:GLN:H	2.02	0.63
45:BU:58:LEU:O	45:BU:59:PHE:HB3	1.98	0.63
1:AA:115:G:HO2'	1:AA:116:A:H8	1.44	0.63
1:AA:692:U:H5'	1:AA:797:C:H5''	1.80	0.63
1:AA:762:U:H2'	1:AA:763:G:C8	2.33	0.63
1:AA:977:A:H2'	1:AA:977:A:N3	2.11	0.63
1:AA:1334:G:H4'	1:AA:1337:G:H21	1.63	0.63
6:AE:136:VAL:HG23	6:AE:137:ARG:HD2	1.80	0.63
22:B0:860:U:H1'	22:B0:2268:A:H5'	1.80	0.63
22:B0:1061:U:C1'	22:B0:1070:A:H1'	2.28	0.63
22:B0:1320:C:H41	22:B0:1329:U:H5''	1.63	0.63
22:B0:1458:C:C2'	22:B0:1459:U:H5'	2.28	0.63
22:B0:1493:A:H61	26:BA:186:ASP:H	1.45	0.63
22:B0:1668:A:H5''	22:B0:1669:A:OP1	1.98	0.63
31:BF:84:ALA:HB2	31:BF:90:LEU:HG	1.79	0.63
37:BL:96:ARG:H	37:BL:96:ARG:HE	1.46	0.63
45:BU:13:ARG:H	45:BU:13:ARG:NE	1.95	0.63
1:AA:33:A:H2'	1:AA:34:C:C6	2.33	0.63
1:AA:419:C:C3'	1:AA:540:G:N2	2.50	0.63
1:AA:448:A:N6	1:AA:482:A:H62	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:19:G:H5''	2:AV:20:G:OP2	1.98	0.63
3:AB:185:ILE:HD13	3:AB:185:ILE:N	2.13	0.63
5:AD:137:SER:HB3	5:AD:138:PRO:HD2	1.79	0.63
6:AE:131:ASN:HB3	6:AE:134:ASN:HD22	1.63	0.63
17:AP:4:ILE:O	17:AP:71:VAL:HG11	1.98	0.63
22:B0:165:A:H2'	22:B0:165:A:N3	2.13	0.63
22:B0:402:A:H2'	22:B0:403:U:O4'	1.98	0.63
22:B0:641:U:O2'	22:B0:2350:C:H5''	1.97	0.63
22:B0:790:U:O2	22:B0:795:C:H5'	1.99	0.63
22:B0:1398:C:H3'	22:B0:1398:C:OP2	1.97	0.63
25:B5:46:GLU:O	25:B5:50:GLU:HG2	1.98	0.63
26:BA:244:VAL:HG22	26:BA:256:THR:O	1.98	0.63
28:BC:43:THR:HG22	28:BC:91:ASP:HB3	1.79	0.63
28:BC:180:LEU:O	28:BC:181:ILE:HG23	1.98	0.63
32:BG:133:ARG:CD	32:BG:137:LEU:HB3	2.28	0.63
34:BI:22:ILE:HB	34:BI:40:LYS:O	1.98	0.63
40:BO:12:ARG:HB3	40:BO:12:ARG:NH1	2.13	0.63
41:BQ:28:LYS:HA	41:BQ:70:LYS:HD2	1.78	0.63
1:AA:421:U:O4	5:AD:43:ARG:NE	2.31	0.63
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.34	0.63
7:AF:47:LEU:HD23	7:AF:59:TYR:OH	1.98	0.63
14:AM:67:ASP:OD1	29:BD:132:ARG:HD3	1.99	0.63
16:AO:56:LEU:HD22	22:B0:715:A:OP1	1.98	0.63
22:B0:1059:G:H2'	22:B0:1060:U:C5	2.33	0.63
22:B0:1944:U:H5''	22:B0:1945:G:OP2	1.99	0.63
22:B0:2373:G:H2'	22:B0:2374:C:C6	2.34	0.63
22:B0:2382:G:OP1	22:B0:2383:G:H5''	1.99	0.63
22:B0:2789:C:C2	22:B0:2893:G:H1'	2.33	0.63
25:B3:20:VAL:HA	25:B3:23:ILE:HG13	1.81	0.63
25:B5:49:GLU:HG2	25:B5:52:THR:HB	1.80	0.63
26:BA:67:LYS:NZ	26:BA:188:ARG:HH22	1.93	0.63
29:BD:79:ARG:HB3	29:BD:79:ARG:NH1	2.13	0.63
33:BH:96:ARG:CB	33:BH:97:PRO:CA	2.77	0.63
1:AA:545:C:C3'	1:AA:546:A:H5'	2.13	0.63
2:AU:18:G:O2'	2:AU:57:G:N2	2.31	0.63
4:AC:24:ASN:HD22	4:AC:27:GLU:HB3	1.64	0.63
6:AE:81:GLN:OE1	6:AE:146:MET:HB3	1.98	0.63
9:AH:35:ILE:O	9:AH:38:VAL:HG12	1.97	0.63
22:B0:84:A:H61	22:B0:102:U:H1'	1.63	0.63
22:B0:1206:G:N2	22:B0:1240:U:H3	1.95	0.63
22:B0:1495:A:H3'	26:BA:191:LEU:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1579:A:C8	26:BA:188:ARG:HD3	2.33	0.63
22:B0:1772:A:H2'	22:B0:1773:A:H4'	1.80	0.63
22:B0:2094:A:H61	22:B0:2195:U:H3	1.46	0.63
22:B0:2236:U:H2'	22:B0:2237:G:O4'	1.99	0.63
22:B0:2352:A:H2	22:B0:2365:G:H22	1.47	0.63
22:B0:2599:G:O2'	22:B0:2600:A:H5'	1.98	0.63
22:B0:2677:G:C4'	27:BB:160:LYS:HD3	2.28	0.63
28:BC:34:ALA:HB1	35:BJ:19:LEU:HB3	1.81	0.63
28:BC:36:ALA:HB2	35:BJ:18:ARG:NH1	2.13	0.63
29:BD:71:LYS:N	29:BD:71:LYS:HE2	2.14	0.63
29:BD:105:ILE:HD13	29:BD:138:PRO:HG3	1.81	0.63
39:BN:55:HIS:CG	39:BN:56:SER:H	2.15	0.63
39:BN:83:ILE:CD1	39:BN:84:SER:H	2.10	0.63
42:BR:50:LEU:HB2	46:BW:26:PHE:CZ	2.34	0.63
43:BS:65:GLN:O	43:BS:69:VAL:HG13	1.98	0.63
45:BU:35:ILE:HG21	45:BU:70:VAL:HG21	1.80	0.63
46:BW:35:GLY:HA3	46:BW:38:GLN:HE22	1.63	0.63
47:BX:3:THR:HG22	47:BX:38:GLU:HA	1.80	0.63
7:AF:8:PHE:O	7:AF:60:VAL:HG22	1.98	0.63
13:AL:120:ARG:HH11	13:AL:120:ARG:CB	2.08	0.63
22:B0:784:G:O6	22:B0:2073:C:H5'	1.99	0.63
22:B0:1328:A:H2'	22:B0:1330:C:C5	2.34	0.63
22:B0:1845:G:H2'	22:B0:1846:G:C8	2.33	0.63
22:B0:2123:G:H4'	22:B0:2124:G:O5'	1.99	0.63
22:B0:2507:C:H42	22:B0:2582:G:H22	1.47	0.63
24:B2:172:THR:HG21	24:B2:191:LEU:HD21	1.80	0.63
26:BA:136:VAL:HG13	26:BA:163:ILE:HG22	1.81	0.63
34:BI:8:LEU:HD23	34:BI:8:LEU:H	1.63	0.63
36:BK:108:VAL:CG2	36:BK:109:PRO:HD2	2.27	0.63
38:BM:15:ARG:H	38:BM:15:ARG:NE	1.97	0.63
39:BN:25:VAL:HG13	39:BN:88:ARG:NE	2.13	0.63
40:BO:63:ARG:HH11	40:BO:63:ARG:C	2.02	0.63
42:BR:73:ARG:HD2	42:BR:74:ILE:N	2.13	0.63
45:BU:35:ILE:HG23	45:BU:36:ILE:HG22	1.81	0.63
1:AA:424:G:N1	5:AD:39:GLN:NE2	2.42	0.63
1:AA:538:G:OP2	13:AL:111:GLN:OE1	2.17	0.63
1:AA:727:G:H5''	1:AA:741:G:N2	2.13	0.63
1:AA:1347:G:H1'	1:AA:1348:U:H5	1.62	0.63
6:AE:10:LEU:HD21	6:AE:38:VAL:HB	1.80	0.63
8:AG:99:ALA:O	8:AG:103:ILE:HG12	1.98	0.63
16:AO:69:LEU:HD11	16:AO:76:ARG:HD2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:363:G:H2'	22:B0:364:C:O4'	1.99	0.63
22:B0:934:U:H2'	22:B0:935:C:O4'	1.99	0.63
22:B0:1244:A:H2'	22:B0:1245:G:C8	2.33	0.63
22:B0:1421:G:N2	26:BA:149:LYS:HG2	2.14	0.63
22:B0:1992:G:H1'	22:B0:1994:C:C5	2.30	0.63
22:B0:2116:G:P	22:B0:2117:A:H5'	2.38	0.63
22:B0:2185:U:H2'	22:B0:2186:G:C8	2.34	0.63
25:B5:17:MET:HG2	25:B5:21:GLU:OE2	1.99	0.63
25:B5:42:ALA:O	25:B5:45:VAL:HG13	1.99	0.63
27:BB:22:ILE:HD12	27:BB:23:PRO:HD2	1.80	0.63
28:BC:153:LEU:HD11	28:BC:156:ASN:O	1.98	0.63
30:BE:140:ILE:HD12	30:BE:141:GLY:N	2.13	0.63
33:BH:89:PHE:CE2	33:BH:91:GLU:HB2	2.33	0.63
35:BJ:92:LEU:HD22	35:BJ:94:THR:HG22	1.81	0.63
39:BN:37:LYS:HD3	39:BN:39:LEU:HD12	1.81	0.63
39:BN:47:ILE:HG23	39:BN:63:ILE:HA	1.81	0.63
45:BU:65:LYS:H	45:BU:65:LYS:HD3	1.63	0.63
1:AA:873:A:H5''	1:AA:874:G:OP2	1.98	0.63
7:AF:77:THR:HG23	7:AF:78:PHE:HD1	1.64	0.63
22:B0:492:A:H5''	41:BQ:9:HIS:CD2	2.34	0.63
22:B0:668:A:C3'	22:B0:670:A:H61	2.11	0.63
22:B0:1083:U:O2'	25:B3:81:LYS:HG2	1.98	0.63
22:B0:1111:A:O2'	22:B0:1112:G:H1'	1.99	0.63
22:B0:1493:A:O2'	26:BA:173:LEU:HD13	1.99	0.63
22:B0:1911:U:H2'	22:B0:1912:A:O4'	1.99	0.63
22:B0:2074:U:C2'	22:B0:2075:U:H5''	2.29	0.63
22:B0:2451:A:P	22:B0:2497:A:H61	2.21	0.63
22:B0:2678:C:H5'	27:BB:124:ARG:CZ	2.29	0.63
24:B2:211:VAL:HG21	24:B2:225:GLN:HB3	1.81	0.63
26:BA:74:PRO:CA	26:BA:116:GLN:HG2	2.29	0.63
26:BA:175:LEU:HG	26:BA:177:SER:N	2.14	0.63
27:BB:22:ILE:HG21	27:BB:190:LYS:HZ2	1.64	0.63
1:AA:790:A:H2'	1:AA:791:G:C8	2.33	0.63
1:AA:827:U:H3	1:AA:872:A:N6	1.97	0.63
4:AC:112:ALA:CB	4:AC:184:ASN:HD22	2.12	0.63
13:AL:85:ARG:HA	13:AL:93:ARG:HA	1.80	0.63
22:B0:112:U:H2'	22:B0:113:U:O4'	1.98	0.63
22:B0:658:U:N3	28:BC:98:LYS:HD3	2.14	0.63
22:B0:801:G:OP1	28:BC:57:LYS:HD3	1.99	0.63
22:B0:1210:G:H1'	22:B0:1212:G:N3	2.14	0.63
22:B0:1421:G:C2	26:BA:149:LYS:CB	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1814:G:H22	22:B0:1815:A:H62	1.44	0.63
22:B0:2262:U:H2'	45:BU:10:ARG:C	2.18	0.63
28:BC:105:LEU:O	28:BC:105:LEU:HD13	1.98	0.63
28:BC:178:VAL:HA	35:BJ:17:LYS:N	2.14	0.63
35:BJ:78:ARG:HG2	35:BJ:101:ILE:HG13	1.80	0.63
37:BL:44:LEU:HA	37:BL:47:VAL:HG13	1.80	0.63
45:BU:23:LYS:HB3	45:BU:23:LYS:NZ	2.11	0.63
45:BU:36:ILE:CG2	45:BU:68:PHE:HB3	2.29	0.63
1:AA:109:A:H1'	1:AA:327:A:C1'	2.29	0.62
1:AA:978:A:C3'	20:AS:5:LYS:H	2.12	0.62
1:AA:1094:G:H5''	1:AA:1095:U:C5	2.33	0.62
1:AA:1381:U:H2'	8:AG:78:ARG:CZ	2.28	0.62
1:AA:1516:G:H2'	1:AA:1518:A:OP2	1.98	0.62
22:B0:1008:A:H1'	22:B0:1009:A:N7	2.14	0.62
22:B0:1275:A:H5''	22:B0:1276:A:OP1	1.98	0.62
22:B0:1381:G:H2'	22:B0:1382:G:O4'	1.99	0.62
22:B0:1496:A:H62	26:BA:194:VAL:HG21	1.62	0.62
22:B0:1538:G:H2'	22:B0:1539:A:C8	2.33	0.62
22:B0:1580:A:N9	26:BA:68:ARG:HB3	2.14	0.62
22:B0:1655:A:C2	22:B0:1656:C:H1'	2.34	0.62
22:B0:2428:G:H4'	22:B0:2429:G:N3	2.14	0.62
25:B3:16:VAL:O	25:B3:20:VAL:HG23	1.99	0.62
28:BC:150:THR:HA	28:BC:166:LYS:O	1.98	0.62
32:BG:129:GLU:HA	32:BG:132:ALA:HB2	1.81	0.62
41:BQ:25:ARG:CB	41:BQ:74:ILE:HD11	2.29	0.62
48:BZ:31:LYS:HG2	48:BZ:32:THR:H	1.63	0.62
1:AA:1266:G:N3	1:AA:1268:G:H8	1.97	0.62
2:AU:53:G:H1	2:AU:61:C:H42	1.48	0.62
5:AD:57:LYS:HD3	5:AD:202:LEU:HD23	1.81	0.62
17:AP:39:PHE:HA	17:AP:50:THR:HG22	1.81	0.62
22:B0:935:C:H2'	22:B0:936:A:C8	2.34	0.62
22:B0:1039:A:H2'	22:B0:1040:A:C8	2.34	0.62
22:B0:1578:U:H6	26:BA:101:ARG:CD	2.01	0.62
22:B0:1814:G:N2	22:B0:1815:A:H62	1.97	0.62
22:B0:2898:G:H5''	33:BH:141:ASP:HA	1.81	0.62
28:BC:150:THR:HB	28:BC:182:ALA:HB3	1.81	0.62
35:BJ:76:GLU:N	35:BJ:109:LYS:HE3	2.14	0.62
39:BN:13:LYS:H	39:BN:13:LYS:HD3	1.63	0.62
39:BN:25:VAL:HG13	39:BN:88:ARG:CD	2.28	0.62
1:AA:29:U:H3	1:AA:554:A:H2	1.47	0.62
1:AA:933:G:N3	10:AI:128:LYS:HB2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1502:A:N6	1:AA:1504:G:N2	2.47	0.62
4:AC:109:GLU:HB2	4:AC:143:LEU:HD22	1.79	0.62
10:AI:79:ARG:O	10:AI:83:THR:HG23	1.99	0.62
17:AP:36:VAL:HG23	17:AP:56:ARG:HB3	1.80	0.62
21:AT:17:ARG:HA	21:AT:20:ASN:ND2	2.14	0.62
21:AT:48:LYS:NZ	21:AT:48:LYS:HB2	2.14	0.62
22:B0:929:U:H2'	22:B0:930:G:O4'	1.98	0.62
22:B0:1083:U:HO2'	25:B3:81:LYS:HE2	1.65	0.62
22:B0:1324:G:H5''	22:B0:1325:U:OP2	1.98	0.62
22:B0:1694:C:H4'	22:B0:1695:G:H5''	1.81	0.62
22:B0:1835:G:H1'	22:B0:1931:U:N3	2.13	0.62
22:B0:2262:U:OP1	45:BU:13:ARG:HD3	1.99	0.62
27:BB:1:MET:SD	27:BB:100:LEU:HD13	2.39	0.62
30:BE:76:ILE:O	30:BE:76:ILE:HD13	2.00	0.62
34:BI:18:ARG:HG2	34:BI:45:GLU:HB3	1.81	0.62
39:BN:23:ASP:HB3	39:BN:96:LEU:HD12	1.80	0.62
1:AA:428:G:O2'	1:AA:429:U:P	2.56	0.62
1:AA:1097:C:H2'	1:AA:1098:C:C6	2.34	0.62
10:AI:113:LYS:O	10:AI:113:LYS:HD2	2.00	0.62
13:AL:109:ARG:HB2	13:AL:118:VAL:HG21	1.81	0.62
17:AP:12:LYS:H	17:AP:12:LYS:HD2	1.62	0.62
22:B0:287:G:H5''	22:B0:352:A:N7	2.14	0.62
22:B0:1490:C:O2'	26:BA:174:ARG:HB2	1.99	0.62
22:B0:1832:C:C3'	22:B0:1833:C:H5''	2.28	0.62
22:B0:2071:A:H2'	22:B0:2072:C:C6	2.34	0.62
34:BI:38:ILE:HG22	34:BI:61:VAL:HG22	1.81	0.62
39:BN:4:ILE:HD11	39:BN:5:LYS:HD2	1.80	0.62
45:BU:23:LYS:HZ2	45:BU:56:HIS:HB3	1.64	0.62
1:AA:484:G:H2'	1:AA:484:G:N3	2.14	0.62
2:AW:19:G:H5''	2:AW:20:G:OP2	2.00	0.62
5:AD:56:GLU:O	5:AD:60:VAL:HG23	2.00	0.62
7:AF:14:GLN:HE21	7:AF:17:GLN:HB2	1.64	0.62
18:AQ:30:HIS:HB3	18:AQ:34:GLY:H	1.64	0.62
20:AS:10:ILE:N	20:AS:10:ILE:HD12	2.14	0.62
22:B0:1495:A:O5'	26:BA:190:THR:C	2.38	0.62
22:B0:2262:U:H1'	45:BU:10:ARG:HH12	1.65	0.62
22:B0:2333:A:H4'	22:B0:2334:U:H5''	1.79	0.62
22:B0:2678:C:O5'	27:BB:125:TRP:CD1	2.52	0.62
22:B0:2899:A:N1	33:BH:136:GLN:HA	2.15	0.62
26:BA:141:HIS:ND1	26:BA:194:VAL:HG22	2.15	0.62
28:BC:44:ARG:HD3	28:BC:47:LYS:HG3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:49:ARG:HB3	28:BC:49:ARG:NH1	2.11	0.62
40:BO:111:LYS:HE2	40:BO:111:LYS:O	1.99	0.62
1:AA:1242:G:H2'	1:AA:1243:C:C6	2.35	0.62
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.35	0.62
4:AC:90:VAL:HA	4:AC:93:ILE:HD13	1.81	0.62
7:AF:24:ARG:HH22	7:AF:81:ASN:HB2	1.65	0.62
22:B0:1247:A:H62	28:BC:92:HIS:HE1	1.47	0.62
22:B0:2118:U:O2	22:B0:2125:G:H4'	1.99	0.62
25:B3:16:VAL:O	25:B3:19:VAL:HG12	1.99	0.62
26:BA:71:ASP:HB2	26:BA:118:GLY:HA3	1.80	0.62
26:BA:154:ALA:HA	26:BA:176:ARG:HH11	1.64	0.62
26:BA:184:GLU:HG2	26:BA:185:ALA:N	2.14	0.62
28:BC:123:LYS:O	28:BC:126:VAL:HG22	1.99	0.62
28:BC:147:LEU:HD22	28:BC:164:LEU:HB3	1.81	0.62
34:BI:48:PRO:HG3	34:BI:54:LYS:HE2	1.81	0.62
35:BJ:81:ASP:C	35:BJ:83:ALA:H	2.01	0.62
36:BK:124:LEU:HD23	36:BK:124:LEU:H	1.65	0.62
1:AA:104:G:H3'	21:AT:4:LYS:HZ1	1.64	0.62
1:AA:404:G:C8	1:AA:547:A:H5''	2.35	0.62
7:AF:74:LEU:HD13	7:AF:74:LEU:O	1.99	0.62
13:AL:98:ARG:NH1	13:AL:106:VAL:HG22	2.14	0.62
19:AR:35:SER:HA	19:AR:71:ASP:HB2	1.81	0.62
20:AS:10:ILE:HG21	20:AS:15:LEU:HD13	1.81	0.62
22:B0:69:C:H2'	22:B0:70:G:O4'	2.00	0.62
22:B0:120:U:H5'	22:B0:122:G:OP2	1.99	0.62
22:B0:959:A:C2	36:BK:79:ALA:HB1	2.35	0.62
22:B0:976:G:O2'	22:B0:1155:A:H1'	1.99	0.62
22:B0:1439:A:H4'	22:B0:1467:G:OP1	1.99	0.62
24:B2:120:MET:HE2	24:B2:120:MET:HA	1.80	0.62
28:BC:34:ALA:N	35:BJ:18:ARG:HG3	2.08	0.62
28:BC:118:LEU:HB2	28:BC:187:VAL:HA	1.80	0.62
34:BI:2:ILE:HD11	34:BI:82:ASN:CG	2.20	0.62
34:BI:3:GLN:CB	34:BI:31:ARG:HB3	2.28	0.62
45:BU:77:LYS:HB3	45:BU:77:LYS:NZ	2.14	0.62
1:AA:49:U:H5'	1:AA:50:A:OP2	2.00	0.62
1:AA:516:U:H2'	1:AA:517:G:O4'	2.00	0.62
1:AA:1347:G:H1'	1:AA:1348:U:C5	2.34	0.62
3:AB:116:LEU:HB2	3:AB:140:LEU:HD21	1.82	0.62
21:AT:73:ARG:HG2	21:AT:77:ASN:ND2	2.15	0.62
22:B0:317:G:O6	35:BJ:5:THR:HG21	2.00	0.62
22:B0:799:G:C3'	28:BC:57:LYS:HB2	2.24	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:904:G:H2'	22:B0:905:A:C8	2.34	0.62
22:B0:1796:U:H3	22:B0:1823:G:H1	1.47	0.62
22:B0:2156:G:OP1	22:B0:2156:G:H4'	1.99	0.62
22:B0:2789:C:O2	22:B0:2893:G:H1'	2.00	0.62
25:B5:65:LYS:O	25:B5:69:ILE:HG12	1.99	0.62
27:BB:9:VAL:CG2	27:BB:28:GLU:HG3	2.29	0.62
36:BK:20:LEU:H	36:BK:20:LEU:HD12	1.64	0.62
38:BM:16:ARG:HH21	45:BU:75:ASN:CB	2.12	0.62
39:BN:20:ARG:HA	39:BN:21:PRO:O	1.99	0.62
42:BR:24:MET:HG2	42:BR:29:THR:O	1.99	0.62
42:BR:24:MET:HG2	42:BR:30:ILE:HA	1.81	0.62
42:BR:28:ASN:HB3	42:BR:87:LEU:HB2	1.82	0.62
46:BW:39:GLN:NE2	46:BW:40:SER:H	1.98	0.62
49:B1:34:GLU:C	49:B1:35:LEU:HD22	2.20	0.62
1:AA:872:A:OP1	1:AA:872:A:H3'	2.00	0.62
2:AU:75:C:O5'	22:B0:2557:G:C5'	2.48	0.62
8:AG:28:ILE:HG13	8:AG:29:LEU:N	2.15	0.62
15:AN:56:PRO:O	15:AN:59:GLN:HG2	2.00	0.62
22:B0:952:G:H2'	22:B0:953:G:O4'	1.98	0.62
22:B0:2118:U:H1'	22:B0:2125:G:O2'	2.00	0.62
22:B0:2164:C:O4'	22:B0:2165:C:H1'	2.00	0.62
29:BD:87:LYS:HB2	29:BD:87:LYS:NZ	2.14	0.62
29:BD:153:ILE:HD13	29:BD:153:ILE:N	2.14	0.62
33:BH:16:TYR:CZ	33:BH:35:ARG:HD3	2.35	0.62
38:BM:8:ILE:HD12	38:BM:8:ILE:N	2.15	0.62
38:BM:15:ARG:NH1	38:BM:25:ARG:NH1	2.48	0.62
47:BX:26:LEU:HD12	47:BX:37:ARG:HG3	1.82	0.62
48:BZ:36:LYS:HA	48:BZ:42:ILE:HD11	1.80	0.62
1:AA:413:G:N3	1:AA:428:G:N2	2.47	0.62
1:AA:1205:U:H4'	4:AC:194:VAL:HG21	1.81	0.62
1:AA:1240:U:C6	8:AG:32:ASP:HB3	2.35	0.62
1:AA:1335:U:H5''	1:AA:1336:C:O5'	1.99	0.62
6:AE:59:ILE:HG22	6:AE:63:MET:HE2	1.81	0.62
22:B0:82:U:H4'	22:B0:295:G:H4'	1.82	0.62
22:B0:1490:C:C4'	26:BA:161:VAL:HA	2.30	0.62
22:B0:1933:G:H3'	22:B0:1934:C:C6	2.35	0.62
22:B0:2161:C:C1'	22:B0:2162:G:H4'	2.30	0.62
22:B0:2563:U:OP1	34:BI:25:LEU:HD12	2.00	0.62
26:BA:143:VAL:HG22	26:BA:153:LEU:HB3	1.82	0.62
30:BE:127:GLN:HE21	30:BE:129:GLU:HB2	1.65	0.62
33:BH:54:ILE:H	33:BH:122:LEU:HA	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BK:20:LEU:HB3	36:BK:22:GLN:HE21	1.65	0.62
42:BR:59:ASN:O	42:BR:83:ALA:HB1	1.99	0.62
45:BU:43:LYS:HE2	45:BU:44:PHE:N	2.15	0.62
45:BU:54:ARG:HH11	45:BU:55:ASP:H	1.47	0.62
49:B1:36:LYS:HE3	49:B1:36:LYS:N	2.15	0.62
1:AA:352:C:H4'	1:AA:354:G:OP1	2.00	0.61
1:AA:424:G:H2'	1:AA:425:G:O4'	2.00	0.61
1:AA:718:A:N3	1:AA:718:A:H2'	2.15	0.61
1:AA:959:A:H2'	1:AA:960:U:H5''	1.80	0.61
1:AA:1016:A:H2'	1:AA:1017:U:O4'	2.00	0.61
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.34	0.61
2:AW:20:G:N2	2:AW:22:G:H5'	2.15	0.61
3:AB:27:LYS:N	3:AB:28:PRO:HD2	2.14	0.61
19:AR:33:THR:HG22	19:AR:34:GLU:N	2.14	0.61
22:B0:529:A:H4'	22:B0:530:G:C5'	2.30	0.61
22:B0:588:U:C5	28:BC:45:ALA:HA	2.35	0.61
22:B0:977:G:H2'	22:B0:978:G:C8	2.35	0.61
22:B0:1193:G:H2'	22:B0:1194:A:H8	1.65	0.61
22:B0:1495:A:H3'	26:BA:191:LEU:N	2.15	0.61
22:B0:1513:C:H2'	22:B0:1514:U:O4'	2.00	0.61
22:B0:2127:G:OP2	22:B0:2128:G:P	2.57	0.61
22:B0:2127:G:C3'	22:B0:2166:U:H5'	2.30	0.61
22:B0:2226:C:H2'	22:B0:2227:A:H4'	1.82	0.61
25:B5:27:GLU:HA	25:B5:35:ALA:CB	2.30	0.61
28:BC:36:ALA:CB	35:BJ:18:ARG:NH1	2.63	0.61
36:BK:14:LYS:HG3	36:BK:15:GLY:N	2.14	0.61
40:BO:41:ALA:C	40:BO:43:GLN:H	2.02	0.61
44:BT:26:PHE:CE2	44:BT:89:ILE:HD13	2.35	0.61
48:BZ:52:LYS:HE3	48:BZ:52:LYS:N	2.11	0.61
2:AU:75:C:O2	2:AU:75:C:H2'	2.00	0.61
7:AF:7:VAL:HG22	7:AF:88:MET:O	2.00	0.61
9:AH:95:MET:O	9:AH:98:LEU:HG	2.00	0.61
15:AN:40:ARG:HG3	20:AS:13:HIS:O	1.99	0.61
22:B0:231:A:H2'	22:B0:232:G:O4'	2.00	0.61
22:B0:495:G:H4'	41:BQ:104:THR:HG23	1.82	0.61
22:B0:826:U:H4'	35:BJ:55:MET:O	2.00	0.61
22:B0:1190:G:H5''	35:BJ:41:ARG:HD2	1.81	0.61
22:B0:1495:A:C3'	26:BA:191:LEU:H	2.13	0.61
22:B0:1869:G:H22	22:B0:1872:A:P	2.23	0.61
22:B0:1964:G:O5'	22:B0:1965:C:OP2	2.17	0.61
22:B0:2035:G:O2'	22:B0:2036:C:OP1	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2287:A:H3'	22:B0:2287:A:N3	2.15	0.61
35:BJ:106:GLU:HG2	35:BJ:107:PHE:HD1	1.65	0.61
35:BJ:124:GLY:O	35:BJ:125:LEU:HB2	1.99	0.61
39:BN:101:GLU:C	39:BN:103:THR:H	2.03	0.61
1:AA:1403:C:H1'	1:AA:1500:A:N1	2.15	0.61
2:AW:46:G:O2'	2:AW:47:U:H5'	2.00	0.61
6:AE:100:GLU:HA	6:AE:121:ASN:ND2	2.15	0.61
9:AH:38:VAL:HG13	9:AH:39:LEU:HD22	1.82	0.61
19:AR:18:GLN:HB3	19:AR:20:ILE:HG22	1.81	0.61
22:B0:337:C:H2'	22:B0:338:G:O4'	2.00	0.61
22:B0:1024:G:H5'	22:B0:1025:G:O4'	2.00	0.61
22:B0:1258:U:H2'	22:B0:1259:G:C8	2.36	0.61
22:B0:2164:C:H1'	22:B0:2165:C:N1	2.15	0.61
22:B0:2323:G:H21	22:B0:2337:G:H5'	1.65	0.61
22:B0:2472:G:H21	22:B0:2529:G:N2	1.99	0.61
22:B0:2779:U:HO2'	22:B0:2780:G:P	2.23	0.61
22:B0:2854:G:H2'	22:B0:2855:C:C6	2.35	0.61
41:BQ:70:LYS:HB2	41:BQ:110:ARG:HG3	1.82	0.61
43:BS:25:LYS:NZ	43:BS:25:LYS:HB2	2.14	0.61
43:BS:64:ILE:HD12	43:BS:64:ILE:N	2.15	0.61
1:AA:520:A:C2	1:AA:536:C:H1'	2.35	0.61
1:AA:1256:A:H4'	1:AA:1257:A:H5'	1.81	0.61
1:AA:1302:C:O2'	1:AA:1303:C:OP1	2.18	0.61
1:AA:1401:G:O2'	1:AA:1402:C:H5'	2.00	0.61
1:AA:1520:C:H2'	1:AA:1521:C:C6	2.36	0.61
2:AV:20:G:C3'	2:AV:21:A:H5''	2.30	0.61
5:AD:54:LEU:HD22	5:AD:55:ARG:HD2	1.82	0.61
13:AL:26:CYS:HB2	13:AL:29:LYS:HE2	1.82	0.61
20:AS:10:ILE:HG22	20:AS:15:LEU:HB2	1.82	0.61
22:B0:310:A:O2'	22:B0:311:A:H3'	2.00	0.61
22:B0:780:G:H1'	22:B0:783:A:H61	1.65	0.61
22:B0:959:A:O2'	22:B0:2495:G:O3'	2.19	0.61
22:B0:1540:A:H8	22:B0:1540:A:O5'	1.83	0.61
22:B0:1668:A:HO2'	22:B0:1670:C:H5	1.48	0.61
22:B0:2162:G:N7	22:B0:2164:C:C3'	2.63	0.61
22:B0:2165:C:OP1	22:B0:2165:C:H4'	2.00	0.61
22:B0:2501:C:H4'	22:B0:2503:A:O4'	1.99	0.61
25:B3:65:LYS:O	25:B3:69:ILE:HG12	2.00	0.61
26:BA:75:ALA:O	26:BA:115:ILE:HD13	2.00	0.61
29:BD:7:TYR:O	29:BD:8:LYS:HB2	1.99	0.61
29:BD:84:ILE:HD12	29:BD:84:ILE:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:109:ALA:HA	32:BG:112:LYS:HE3	1.80	0.61
33:BH:36:LEU:CD1	33:BH:52:ASP:H	2.11	0.61
33:BH:99:ARG:HH22	33:BH:102:GLU:CG	2.13	0.61
35:BJ:54:GLN:NE2	35:BJ:57:LEU:H	1.98	0.61
39:BN:25:VAL:HG13	39:BN:88:ARG:HE	1.64	0.61
39:BN:36:LYS:HE3	39:BN:37:LYS:HZ2	1.65	0.61
40:BO:59:LEU:C	40:BO:61:ILE:H	2.03	0.61
41:BQ:28:LYS:N	41:BQ:70:LYS:HD2	2.14	0.61
1:AA:279:A:H4'	1:AA:280:C:OP2	1.99	0.61
1:AA:424:G:C2	5:AD:39:GLN:CD	2.71	0.61
1:AA:496:A:O2'	1:AA:497:G:H3'	1.99	0.61
2:AU:58:A:HO2'	2:AU:60:C:H5	1.49	0.61
2:AV:35:A:H2'	2:AV:36:A:C8	2.36	0.61
3:AB:75:ALA:HB2	3:AB:209:VAL:HG21	1.83	0.61
4:AC:120:THR:O	4:AC:124:GLU:HG3	2.00	0.61
5:AD:2:ARG:HE	5:AD:66:VAL:HA	1.66	0.61
22:B0:656:G:H2'	22:B0:657:U:C6	2.35	0.61
22:B0:1121:C:H2'	22:B0:1122:G:C8	2.36	0.61
22:B0:2138:G:N2	22:B0:2158:A:H62	1.96	0.61
22:B0:2145:C:C2'	22:B0:2146:C:H5''	2.31	0.61
25:B5:23:ILE:HA	25:B5:26:MET:HB2	1.82	0.61
27:BB:201:LEU:HD12	27:BB:201:LEU:O	2.01	0.61
33:BH:109:LEU:N	33:BH:110:PRO:HA	2.15	0.61
33:BH:139:VAL:O	33:BH:140:LEU:HD22	2.00	0.61
41:BQ:17:VAL:HG21	41:BQ:101:SER:HB3	1.83	0.61
1:AA:188:C:H2'	1:AA:189:A:C4'	2.30	0.61
1:AA:320:A:H2'	1:AA:321:A:H8	1.65	0.61
1:AA:610:U:H2'	1:AA:611:C:H6	1.64	0.61
1:AA:718:A:C1'	12:AK:117:HIS:HA	2.30	0.61
1:AA:999:C:H2'	1:AA:1000:A:C8	2.35	0.61
1:AA:1222:G:O4'	20:AS:1:PRO:CA	2.48	0.61
2:AU:73:A:H2'	2:AU:74:C:N1	2.15	0.61
5:AD:85:THR:O	5:AD:89:LEU:HG	1.99	0.61
10:AI:41:GLU:O	10:AI:44:ARG:HG2	2.00	0.61
15:AN:97:LYS:NZ	15:AN:97:LYS:HB3	2.16	0.61
22:B0:121:G:C4	22:B0:140:C:H1'	2.36	0.61
22:B0:655:A:H4'	22:B0:656:G:OP1	1.99	0.61
22:B0:800:A:C8	28:BC:55:SER:HA	2.36	0.61
22:B0:946:C:H2'	22:B0:947:A:C8	2.35	0.61
22:B0:1110:G:H1'	22:B0:1111:A:N7	2.15	0.61
22:B0:2271:G:OP1	45:BU:14:ASP:HB2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2337:G:H3'	22:B0:2337:G:OP2	2.01	0.61
25:B3:69:ILE:O	25:B3:73:ARG:HG3	2.01	0.61
28:BC:88:ARG:HD3	35:BJ:30:THR:HB	1.81	0.61
1:AA:251:G:H5'	1:AA:252:U:OP1	2.00	0.61
1:AA:428:G:O2'	1:AA:429:U:OP2	2.17	0.61
1:AA:1504:G:H5''	1:AA:1505:G:O4'	2.01	0.61
6:AE:75:LEU:HD11	6:AE:117:ALA:O	2.00	0.61
19:AR:62:ARG:HB3	19:AR:69:TYR:CE1	2.35	0.61
22:B0:27:G:H1'	22:B0:513:A:H62	1.65	0.61
22:B0:84:A:H4'	22:B0:85:G:O4'	2.01	0.61
22:B0:311:A:H1'	22:B0:332:A:OP2	1.99	0.61
22:B0:595:C:N3	22:B0:662:G:N2	2.47	0.61
22:B0:865:C:O2	22:B0:865:C:H2'	2.01	0.61
22:B0:959:A:H62	22:B0:2250:G:H1'	1.64	0.61
22:B0:1340:U:H1'	22:B0:1603:A:H5'	1.83	0.61
22:B0:1491:A:OP2	26:BA:176:ARG:HA	1.99	0.61
22:B0:1583:G:O4'	26:BA:96:LYS:HB3	1.99	0.61
22:B0:2101:A:H2'	22:B0:2102:G:H8	1.65	0.61
24:B2:22:ILE:H	24:B2:22:ILE:HD12	1.66	0.61
25:B3:107:LYS:HD2	25:B3:119:VAL:CG2	2.29	0.61
33:BH:84:ILE:H	33:BH:84:ILE:CD1	2.13	0.61
37:BL:95:THR:HG21	37:BL:115:LEU:HG	1.81	0.61
39:BN:36:LYS:HB2	39:BN:36:LYS:NZ	2.16	0.61
41:BQ:49:LYS:NZ	41:BQ:49:LYS:HA	2.15	0.61
42:BR:24:MET:HG2	42:BR:30:ILE:HD13	1.82	0.61
42:BR:49:LYS:HD2	42:BR:50:LEU:CD1	2.30	0.61
46:BW:53:VAL:O	46:BW:57:LEU:HG	1.99	0.61
1:AA:51:A:H5'	1:AA:52:C:OP1	2.01	0.61
1:AA:1239:A:H4'	1:AA:1241:G:C5	2.36	0.61
6:AE:37:VAL:HG12	6:AE:116:VAL:HG21	1.81	0.61
11:AJ:26:VAL:O	11:AJ:30:LYS:HG2	2.00	0.61
19:AR:7:ARG:HH11	19:AR:7:ARG:N	1.98	0.61
22:B0:535:G:H5'	40:BO:49:ARG:HB2	1.82	0.61
22:B0:618:G:O2'	22:B0:619:G:H5'	2.01	0.61
22:B0:877:A:H2'	22:B0:878:A:H8	1.65	0.61
22:B0:1153:C:O3'	40:BO:58:GLN:HA	2.01	0.61
22:B0:1680:U:H2'	22:B0:1681:G:O4'	2.01	0.61
22:B0:2696:U:H2'	22:B0:2697:G:H8	1.66	0.61
25:B5:51:LYS:HG3	25:B5:52:THR:HG22	1.82	0.61
34:BI:41:ILE:HD13	34:BI:41:ILE:N	2.15	0.61
35:BJ:12:SER:OG	35:BJ:13:LYS:HD3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:27:SER:HA	37:BL:30:ARG:HG2	1.82	0.61
39:BN:13:LYS:HD3	39:BN:13:LYS:N	2.16	0.61
40:BO:85:ALA:HB3	40:BO:111:LYS:NZ	2.16	0.61
45:BU:79:ILE:HD13	45:BU:80:SER:N	2.15	0.61
1:AA:401:C:H2'	1:AA:402:G:C8	2.36	0.61
1:AA:419:C:O4'	1:AA:541:G:C2'	2.35	0.61
1:AA:717:U:H4'	12:AK:118:ASN:HB3	1.83	0.61
1:AA:753:A:H4'	1:AA:754:C:H5''	1.83	0.61
1:AA:1363:A:N3	1:AA:1363:A:H2'	2.16	0.61
10:AI:119:LYS:C	10:AI:121:ARG:H	2.05	0.61
19:AR:59:LYS:HD3	19:AR:62:ARG:HH22	1.66	0.61
22:B0:859:G:H5'	22:B0:2268:A:O2'	2.01	0.61
22:B0:910:A:H62	36:BK:10:ARG:HD3	1.66	0.61
22:B0:958:U:OP1	22:B0:958:U:H6	1.84	0.61
22:B0:1085:A:N7	25:B3:81:LYS:HD2	2.15	0.61
22:B0:1416:G:N2	26:BA:95:TYR:O	2.33	0.61
22:B0:1803:A:H62	22:B0:1814:G:N2	1.98	0.61
22:B0:2122:U:O5'	22:B0:2123:G:OP1	2.19	0.61
22:B0:2899:A:H8	22:B0:2899:A:O5'	1.84	0.61
35:BJ:23:ILE:HG22	35:BJ:25:SER:O	2.00	0.61
36:BK:77:PRO:O	36:BK:78:LEU:HB2	2.01	0.61
40:BO:12:ARG:HH12	40:BO:35:PHE:HZ	1.49	0.61
1:AA:634:C:H2'	1:AA:635:A:H8	1.66	0.61
1:AA:1240:U:OP2	8:AG:34:LYS:HD2	2.01	0.61
8:AG:28:ILE:CD1	8:AG:100:MET:HB3	2.31	0.61
20:AS:3:SER:C	20:AS:4:LEU:HD12	2.20	0.61
22:B0:670:A:N3	28:BC:74:LYS:HD2	2.16	0.61
22:B0:1493:A:OP2	26:BA:143:VAL:HG23	2.01	0.61
22:B0:2554:U:H2'	22:B0:2555:U:C5	2.35	0.61
23:B9:34:A:N6	23:B9:44:G:H2'	2.16	0.61
27:BB:89:GLU:HG3	27:BB:90:PHE:N	2.16	0.61
30:BE:60:GLY:HA2	30:BE:63:GLN:HE21	1.66	0.61
39:BN:2:ASN:HB3	39:BN:5:LYS:HZ3	1.66	0.61
39:BN:27:VAL:HG13	39:BN:88:ARG:HD2	1.83	0.61
45:BU:58:LEU:O	45:BU:58:LEU:HD12	2.01	0.61
1:AA:934:C:H5'	1:AA:935:A:OP1	2.01	0.60
4:AC:63:ILE:HD12	4:AC:65:VAL:CG2	2.30	0.60
22:B0:1142:A:H4'	22:B0:1143:A:OP1	1.99	0.60
22:B0:1283:G:N2	22:B0:1285:A:H3'	2.15	0.60
22:B0:1390:U:H5''	22:B0:1540:A:OP1	2.01	0.60
22:B0:1934:C:O2'	22:B0:1935:G:H5'	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2064:C:H2'	22:B0:2065:C:C6	2.36	0.60
22:B0:2560:A:H2'	22:B0:2561:U:C6	2.37	0.60
22:B0:2647:U:H2'	22:B0:2648:G:C8	2.36	0.60
25:B3:30:PHE:HB3	25:B3:34:ALA:HB3	1.81	0.60
26:BA:141:HIS:N	26:BA:190:THR:O	2.31	0.60
28:BC:118:LEU:HB3	28:BC:186:VAL:O	2.01	0.60
29:BD:59:ILE:H	29:BD:59:ILE:HD13	1.66	0.60
30:BE:101:VAL:HG13	30:BE:113:ASP:HB3	1.81	0.60
32:BG:85:ILE:O	32:BG:85:ILE:HD13	2.01	0.60
34:BI:38:ILE:H	34:BI:38:ILE:CD1	2.14	0.60
37:BL:28:LEU:HA	37:BL:34:ILE:HD11	1.83	0.60
42:BR:67:VAL:CG1	42:BR:68:LYS:H	2.09	0.60
1:AA:197:A:H62	1:AA:221:C:H4'	1.65	0.60
1:AA:1084:G:H5''	1:AA:1085:U:OP2	2.01	0.60
2:AW:18:G:O2'	2:AW:57:G:N2	2.34	0.60
2:AW:58:A:HO2'	2:AW:60:C:H5	1.47	0.60
17:AP:20:VAL:HG22	17:AP:35:ARG:HA	1.83	0.60
22:B0:667:U:OP2	35:BJ:48:ARG:HD2	2.00	0.60
22:B0:694:U:H5''	22:B0:1569:A:C6	2.36	0.60
22:B0:958:U:H2'	36:BK:79:ALA:O	2.00	0.60
22:B0:1114:C:H2'	22:B0:1115:G:H8	1.66	0.60
22:B0:1152:C:H2'	22:B0:1153:C:C6	2.36	0.60
22:B0:2262:U:H2'	45:BU:10:ARG:O	2.00	0.60
22:B0:2438:U:H5''	22:B0:2600:A:H4'	1.81	0.60
22:B0:2467:C:H2'	22:B0:2468:A:O4'	2.00	0.60
22:B0:2543:G:H21	22:B0:2646:C:C4'	2.12	0.60
22:B0:2692:G:H4'	22:B0:2847:U:O2'	2.01	0.60
22:B0:2732:G:H2'	22:B0:2734:A:C8	2.36	0.60
22:B0:2853:C:H2'	22:B0:2854:G:H8	1.65	0.60
27:BB:123:LYS:HB2	27:BB:141:ARG:NE	2.15	0.60
30:BE:136:ASP:OD1	30:BE:138:GLN:HG2	2.01	0.60
33:BH:35:ARG:NH2	33:BH:39:LYS:HE2	2.16	0.60
1:AA:975:A:H61	11:AJ:59:LYS:NZ	2.00	0.60
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.67	0.60
1:AA:1394:A:H62	1:AA:1501:C:H5'	1.66	0.60
3:AB:162:VAL:HG12	3:AB:164:ASP:H	1.65	0.60
13:AL:85:ARG:HH12	13:AL:87:LYS:HA	1.66	0.60
15:AN:40:ARG:HA	20:AS:13:HIS:HA	1.84	0.60
22:B0:809:G:N2	28:BC:77:ILE:HD13	2.16	0.60
22:B0:960:A:O5'	22:B0:2496:C:O4'	2.19	0.60
22:B0:1140:C:H1'	22:B0:1143:A:H2'	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1197:G:N1	22:B0:1250:G:H1'	2.16	0.60
22:B0:1490:C:H4'	26:BA:161:VAL:CA	2.30	0.60
22:B0:1582:C:O2	26:BA:97:ASP:OD1	2.19	0.60
22:B0:2271:G:P	45:BU:14:ASP:HB2	2.41	0.60
22:B0:2734:A:H62	22:B0:2770:G:H21	1.49	0.60
24:B2:45:VAL:O	24:B2:169:ILE:HB	2.02	0.60
25:B5:20:VAL:HA	25:B5:23:ILE:HG12	1.84	0.60
26:BA:99:GLU:O	26:BA:100:ARG:CB	2.48	0.60
28:BC:117:ARG:HA	28:BC:185:LYS:NZ	2.15	0.60
29:BD:111:ARG:HD3	29:BD:132:ARG:NH2	2.16	0.60
31:BF:58:LEU:HD12	31:BF:59:ALA:N	2.17	0.60
33:BH:39:LYS:HG3	33:BH:40:HIS:N	2.16	0.60
34:BI:108:ARG:HD2	34:BI:116:ILE:HG13	1.83	0.60
35:BJ:70:LYS:HD3	35:BJ:70:LYS:H	1.65	0.60
39:BN:72:VAL:HG22	39:BN:73:PHE:N	2.12	0.60
41:BQ:8:ARG:HG2	41:BQ:9:HIS:HD2	1.66	0.60
49:B1:26:LYS:CE	49:B1:26:LYS:H	2.14	0.60
1:AA:7:A:O2'	1:AA:8:A:OP1	2.16	0.60
1:AA:434:U:H2'	1:AA:435:A:C8	2.36	0.60
1:AA:548:G:H2'	1:AA:549:C:C6	2.36	0.60
1:AA:912:C:O2'	1:AA:913:A:H5'	2.01	0.60
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.36	0.60
22:B0:347:A:H2'	22:B0:348:A:C8	2.37	0.60
22:B0:571:U:C4'	22:B0:572:A:OP1	2.49	0.60
22:B0:581:C:H2'	22:B0:582:A:C8	2.36	0.60
22:B0:658:U:C3'	28:BC:98:LYS:HE2	2.28	0.60
22:B0:923:G:O2'	45:BU:22:VAL:HG13	2.01	0.60
22:B0:1422:G:O4'	26:BA:149:LYS:HE2	2.01	0.60
22:B0:1700:A:H2'	22:B0:1701:A:H5'	1.82	0.60
22:B0:2238:G:H1'	22:B0:2240:U:H5	1.66	0.60
22:B0:2677:G:N7	27:BB:127:PHE:HA	2.16	0.60
25:B3:54:PHE:HB2	25:B3:119:VAL:HG13	1.82	0.60
35:BJ:89:VAL:HA	35:BJ:120:VAL:HG23	1.82	0.60
47:BX:31:ILE:HD13	47:BX:31:ILE:H	1.66	0.60
48:BZ:29:VAL:HB	48:BZ:33:SER:HA	1.83	0.60
1:AA:1218:C:H2'	1:AA:1219:A:C8	2.36	0.60
2:AU:18:G:H5''	2:AU:60:C:C2	2.37	0.60
2:AU:46:G:O2'	2:AU:47:U:H5'	2.01	0.60
14:AM:77:LYS:O	14:AM:77:LYS:HD3	2.00	0.60
22:B0:1142:A:OP2	22:B0:1142:A:C8	2.55	0.60
22:B0:1650:A:H2'	22:B0:1651:G:H8	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2811:G:H2'	22:B0:2812:G:C8	2.37	0.60
22:B0:2866:U:H1'	22:B0:2868:A:C1'	2.32	0.60
25:B3:55:ASP:OD2	25:B5:8:ILE:HB	2.00	0.60
26:BA:76:VAL:HG22	26:BA:94:LEU:HB3	1.81	0.60
28:BC:93:SER:HB2	35:BJ:28:GLY:N	2.16	0.60
35:BJ:92:LEU:H	35:BJ:92:LEU:CD1	2.14	0.60
42:BR:8:LEU:HB3	46:BW:29:ARG:CD	2.26	0.60
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.37	0.60
2:AW:4:G:H5'	22:B0:1881:C:OP1	2.01	0.60
4:AC:129:PHE:O	4:AC:133:MET:HG2	2.02	0.60
17:AP:14:ARG:HG3	17:AP:16:PHE:CE2	2.37	0.60
22:B0:606:U:H2'	22:B0:607:U:O4'	2.02	0.60
22:B0:800:A:H1'	22:B0:802:A:OP2	2.01	0.60
22:B0:926:G:H2'	22:B0:928:A:C8	2.36	0.60
22:B0:960:A:C4'	22:B0:2496:C:H5''	2.31	0.60
22:B0:1491:A:H2	26:BA:172:THR:HB	1.65	0.60
22:B0:1609:A:C1'	22:B0:1616:A:H1'	2.30	0.60
22:B0:2185:U:H2'	22:B0:2186:G:H8	1.64	0.60
22:B0:2200:C:H1'	22:B0:2227:A:N1	2.15	0.60
22:B0:2894:U:H3'	33:BH:9:GLU:HG3	1.84	0.60
33:BH:127:GLY:HA3	33:BH:131:ASN:ND2	2.16	0.60
35:BJ:63:LYS:HD2	35:BJ:63:LYS:H	1.67	0.60
40:BO:83:LYS:HB2	40:BO:83:LYS:NZ	2.16	0.60
45:BU:30:VAL:HG22	45:BU:31:LEU:H	1.66	0.60
47:BX:47:ILE:HG23	47:BX:56:VAL:HG11	1.84	0.60
48:BZ:36:LYS:HA	48:BZ:42:ILE:CD1	2.32	0.60
49:B1:34:GLU:HB3	49:B1:50:GLU:H	1.67	0.60
1:AA:242:G:O2'	1:AA:243:A:H5'	2.00	0.60
1:AA:323:U:H4'	21:AT:13:SER:HB3	1.82	0.60
1:AA:1267:C:C5	1:AA:1328:C:OP2	2.54	0.60
3:AB:14:HIS:CE1	3:AB:211:LEU:HD23	2.37	0.60
22:B0:269:C:N4	22:B0:370:G:H1	2.00	0.60
22:B0:493:G:N3	41:BQ:7:HIS:HA	2.16	0.60
22:B0:535:G:H1'	40:BO:52:ARG:CG	2.30	0.60
22:B0:618:G:N2	22:B0:619:G:H1'	2.16	0.60
22:B0:1026:G:H2'	22:B0:1027:A:O4'	2.00	0.60
22:B0:1418:G:C4	26:BA:99:GLU:HA	2.36	0.60
22:B0:1579:A:OP2	26:BA:66:PHE:HB3	2.01	0.60
22:B0:1606:C:H4'	22:B0:1607:C:H6	1.66	0.60
22:B0:2490:G:H4'	22:B0:2491:U:H5'	1.84	0.60
22:B0:2884:U:H2'	22:B0:2885:G:O4'	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B5:18:ASP:O	25:B5:22:LEU:N	2.32	0.60
26:BA:173:LEU:O	26:BA:174:ARG:O	2.19	0.60
35:BJ:91:ASP:OD2	35:BJ:120:VAL:HG21	2.01	0.60
39:BN:85:VAL:HG22	39:BN:86:LYS:N	2.10	0.60
40:BO:82:LEU:HD13	40:BO:88:GLU:HG2	1.82	0.60
41:BQ:10:ALA:HB1	41:BQ:11:ARG:HH21	1.66	0.60
42:BR:86:THR:C	42:BR:87:LEU:HD12	2.22	0.60
1:AA:1002:G:H2'	1:AA:1003:G:C8	2.37	0.60
1:AA:1065:U:H5''	1:AA:1190:G:N2	2.10	0.60
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.37	0.60
1:AA:1221:G:C8	20:AS:2:ARG:HA	2.37	0.60
1:AA:1451:U:H5''	1:AA:1452:C:H5	1.66	0.60
9:AH:119:GLY:C	9:AH:120:LEU:HD12	2.22	0.60
22:B0:675:A:OP2	28:BC:61:ARG:HB3	2.01	0.60
22:B0:735:A:C5	22:B0:736:C:H1'	2.37	0.60
22:B0:2057:G:H2'	22:B0:2058:A:O4'	2.02	0.60
22:B0:2176:A:P	24:B2:167:ASN:HB3	2.42	0.60
22:B0:2233:U:H2'	22:B0:2234:G:C8	2.37	0.60
22:B0:2644:G:N1	22:B0:2676:C:H1'	2.13	0.60
22:B0:2678:C:N4	27:BB:126:ASN:HD21	1.99	0.60
25:B3:73:ARG:HE	25:B3:80:LEU:CA	2.14	0.60
26:BA:152:GLN:HA	26:BA:155:ARG:NE	2.15	0.60
26:BA:157:ALA:HA	26:BA:194:VAL:HG11	1.83	0.60
26:BA:163:ILE:HD12	26:BA:163:ILE:N	2.16	0.60
30:BE:105:SER:HB2	30:BE:151:ARG:NH2	2.16	0.60
32:BG:121:ILE:H	32:BG:121:ILE:CD1	2.15	0.60
35:BJ:76:GLU:O	35:BJ:108:ALA:HB1	2.02	0.60
36:BK:96:ILE:HD13	36:BK:102:LEU:HD21	1.84	0.60
37:BL:28:LEU:HB3	37:BL:113:ILE:HG21	1.82	0.60
40:BO:112:ALA:C	40:BO:114:ALA:H	2.03	0.60
41:BQ:50:VAL:O	41:BQ:51:LEU:HB3	2.02	0.60
1:AA:41:G:N2	1:AA:42:G:C5	2.70	0.60
1:AA:1230:C:H2'	1:AA:1231:G:H8	1.67	0.60
1:AA:1239:A:H4'	1:AA:1241:G:C6	2.37	0.60
7:AF:10:VAL:HG22	7:AF:11:HIS:N	2.16	0.60
10:AI:33:SER:HB3	10:AI:36:GLN:HG3	1.84	0.60
11:AJ:52:LEU:HD12	11:AJ:52:LEU:H	1.67	0.60
22:B0:300:A:H1'	22:B0:334:C:O2'	2.02	0.60
22:B0:671:C:H1'	28:BC:76:PRO:HB2	1.84	0.60
22:B0:1495:A:OP1	26:BA:190:THR:N	2.34	0.60
22:B0:1608:A:O2'	22:B0:1609:A:OP2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B9:14:U:H5''	23:B9:15:A:OP2	2.02	0.60
28:BC:35:TYR:N	35:BJ:18:ARG:CB	2.51	0.60
33:BH:46:PRO:O	33:BH:47:HIS:CB	2.50	0.60
33:BH:55:ILE:HG23	33:BH:56:VAL:N	2.16	0.60
33:BH:100:VAL:HG13	33:BH:101:ILE:N	2.11	0.60
33:BH:122:LEU:H	33:BH:122:LEU:CD1	2.12	0.60
34:BI:78:ARG:H	39:BN:72:VAL:HG11	1.67	0.60
36:BK:25:ASP:HB2	36:BK:64:TRP:CZ2	2.37	0.60
36:BK:34:LYS:NZ	36:BK:34:LYS:HB3	2.17	0.60
38:BM:92:PHE:HE2	38:BM:111:ARG:HH21	1.48	0.60
41:BQ:21:ALA:HA	41:BQ:24:ILE:HD11	1.84	0.60
41:BQ:48:LYS:HG3	41:BQ:49:LYS:HZ3	1.67	0.60
1:AA:431:A:OP2	1:AA:432:A:OP2	2.20	0.60
8:AG:19:SER:HB3	8:AG:22:LEU:HD13	1.82	0.60
21:AT:38:ILE:HG13	21:AT:82:ILE:HG22	1.84	0.60
21:AT:68:LYS:H	21:AT:68:LYS:CD	2.12	0.60
22:B0:448:U:H5''	22:B0:449:A:OP2	2.02	0.60
22:B0:796:C:H2'	22:B0:797:G:C8	2.37	0.60
22:B0:1341:G:H1'	42:BR:84:TYR:OH	2.01	0.60
22:B0:1492:G:H2'	26:BA:152:GLN:HG3	1.84	0.60
22:B0:1578:U:H5''	26:BA:101:ARG:NE	2.17	0.60
22:B0:1759:A:H2'	22:B0:1759:A:N3	2.17	0.60
22:B0:1775:U:OP1	22:B0:1980:G:H4'	2.01	0.60
22:B0:1972:G:H2'	22:B0:1973:G:C8	2.36	0.60
22:B0:2197:U:HO2'	22:B0:2198:A:H8	1.50	0.60
22:B0:2507:C:H5''	22:B0:2573:C:N4	2.16	0.60
22:B0:2899:A:H61	33:BH:137:PRO:CD	2.15	0.60
23:B9:18:G:H22	23:B9:65:U:H3	1.48	0.60
25:B3:22:LEU:O	25:B3:26:MET:HG2	2.01	0.60
25:B5:59:LYS:HD2	25:B5:116:GLU:HG2	1.84	0.60
26:BA:123:ILE:HG22	26:BA:134:ILE:HD13	1.82	0.60
26:BA:141:HIS:HD1	26:BA:194:VAL:HG22	1.66	0.60
33:BH:127:GLY:HA3	33:BH:131:ASN:CG	2.22	0.60
35:BJ:29:LYS:HD2	35:BJ:29:LYS:C	2.22	0.60
46:BW:28:LEU:CD1	46:BW:43:LEU:HD23	2.32	0.60
47:BX:43:ILE:HA	47:BX:46:MET:HE2	1.83	0.60
1:AA:435:A:O2'	1:AA:436:C:H5'	2.01	0.59
1:AA:1285:A:O2'	1:AA:1286:U:OP2	2.15	0.59
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.02	0.59
2:AV:20:G:C2'	2:AV:21:A:H5''	2.32	0.59
5:AD:94:GLU:HA	5:AD:99:ASN:ND2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:1:MET:HA	7:AF:68:GLN:OE1	2.02	0.59
14:AM:4:ALA:H	14:AM:7:ASN:ND2	1.98	0.59
22:B0:1491:A:C5	26:BA:174:ARG:HA	2.36	0.59
22:B0:1659:G:H2'	22:B0:1660:G:H5'	1.84	0.59
22:B0:1869:G:H2'	22:B0:1871:A:P	2.42	0.59
22:B0:2598:A:H2'	22:B0:2599:G:O4'	2.02	0.59
27:BB:92:VAL:HG23	27:BB:94:GLN:H	1.66	0.59
30:BE:102:ILE:HD12	30:BE:102:ILE:O	2.02	0.59
37:BL:41:ALA:HB1	37:BL:44:LEU:HB2	1.83	0.59
44:BT:6:ALA:HB2	44:BT:42:LEU:HD23	1.84	0.59
1:AA:300:A:H2'	1:AA:301:G:O4'	2.02	0.59
1:AA:615:G:H1	1:AA:625:U:H3	1.50	0.59
1:AA:978:A:H3'	20:AS:5:LYS:CA	2.33	0.59
1:AA:1064:G:H4'	1:AA:1065:U:O5'	2.01	0.59
1:AA:1182:G:O2'	1:AA:1183:U:OP2	2.13	0.59
1:AA:1185:G:O2'	1:AA:1186:G:H5'	2.02	0.59
6:AE:60:GLN:HA	6:AE:63:MET:HE3	1.84	0.59
6:AE:156:ARG:O	9:AH:65:PHE:HB2	2.01	0.59
14:AM:89:ARG:HD2	14:AM:92:ARG:NH2	2.14	0.59
22:B0:637:A:OP2	35:BJ:129:LYS:HG2	2.01	0.59
22:B0:899:A:H2'	22:B0:900:A:H8	1.66	0.59
22:B0:1080:A:H5'	32:BG:130:GLY:HA3	1.83	0.59
22:B0:1204:A:H61	22:B0:1241:A:N6	2.00	0.59
22:B0:1487:G:HO2'	26:BA:198:GLU:N	2.00	0.59
22:B0:1495:A:O4'	26:BA:189:ALA:O	2.19	0.59
23:B9:44:G:N2	23:B9:48:U:H1'	2.18	0.59
24:B2:72:VAL:HB	24:B2:156:LYS:HE2	1.83	0.59
26:BA:149:LYS:NZ	26:BA:152:GLN:HG2	2.16	0.59
28:BC:31:VAL:C	28:BC:33:VAL:H	2.05	0.59
31:BF:94:ILE:HG22	31:BF:99:ILE:HD12	1.84	0.59
31:BF:104:THR:HA	31:BF:108:VAL:O	2.01	0.59
37:BL:38:LEU:HG	37:BL:109:PRO:HG2	1.83	0.59
37:BL:75:ILE:HD13	37:BL:75:ILE:N	2.12	0.59
37:BL:80:PHE:C	37:BL:82:GLU:H	2.06	0.59
39:BN:102:ARG:O	39:BN:102:ARG:HD3	2.03	0.59
1:AA:12:U:H2'	1:AA:13:U:H5''	1.84	0.59
1:AA:508:U:H4'	1:AA:509:A:H8	1.65	0.59
1:AA:871:U:H5''	1:AA:872:A:OP2	2.02	0.59
1:AA:967:C:OP1	1:AA:969:A:H5'	2.02	0.59
3:AB:186:VAL:HG22	3:AB:187:ASP:N	2.17	0.59
6:AE:10:LEU:HD23	6:AE:11:GLN:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AM:106:ARG:NH2	14:AM:112:ARG:HA	2.18	0.59
17:AP:32:PHE:HE2	17:AP:35:ARG:HE	1.50	0.59
21:AT:73:ARG:HG2	21:AT:77:ASN:HD21	1.67	0.59
22:B0:78:U:H3	22:B0:108:G:H1	1.48	0.59
22:B0:215:G:H4'	22:B0:216:A:C4'	2.28	0.59
22:B0:307:G:N2	22:B0:309:A:H3'	2.17	0.59
22:B0:493:G:O4'	41:BQ:9:HIS:C	2.40	0.59
22:B0:635:C:H1'	22:B0:639:U:OP1	2.02	0.59
22:B0:910:A:C6	36:BK:10:ARG:HG2	2.38	0.59
22:B0:1492:G:H1'	26:BA:152:GLN:HE21	1.68	0.59
22:B0:1594:U:O2'	22:B0:1595:C:H5'	2.02	0.59
22:B0:1599:U:OP1	42:BR:61:LEU:HD13	2.01	0.59
22:B0:2139:U:H5''	22:B0:2140:G:OP1	2.02	0.59
22:B0:2855:C:H2'	22:B0:2856:A:C5'	2.31	0.59
22:B0:2894:U:C5	33:BH:9:GLU:HB2	2.37	0.59
25:B3:96:GLU:HA	25:B5:8:ILE:HG23	1.83	0.59
26:BA:63:ILE:H	26:BA:63:ILE:CD1	2.15	0.59
28:BC:192:ALA:O	28:BC:196:VAL:HG23	2.01	0.59
33:BH:90:GLU:O	33:BH:93:ILE:HG22	2.03	0.59
34:BI:38:ILE:HD13	34:BI:38:ILE:N	2.17	0.59
34:BI:105:ARG:HG3	34:BI:108:ARG:HH21	1.68	0.59
37:BL:10:LEU:CD1	37:BL:10:LEU:H	2.15	0.59
37:BL:48:VAL:O	37:BL:49:GLU:HB3	2.01	0.59
44:BT:34:LYS:HD3	44:BT:34:LYS:H	1.66	0.59
49:B1:9:LYS:H	49:B1:9:LYS:CD	2.14	0.59
1:AA:892:A:H2'	1:AA:893:C:C6	2.37	0.59
5:AD:186:GLU:HG2	5:AD:189:ASP:OD2	2.03	0.59
17:AP:8:ARG:HB3	17:AP:28:ARG:HH22	1.67	0.59
22:B0:70:G:O2'	22:B0:73:A:N3	2.35	0.59
22:B0:1479:G:H5''	22:B0:1559:U:H4'	1.85	0.59
22:B0:2055:C:O2	22:B0:2055:C:H2'	2.01	0.59
22:B0:2677:G:C3'	27:BB:125:TRP:HB2	2.32	0.59
22:B0:2765:A:H3'	22:B0:2765:A:N3	2.18	0.59
22:B0:2785:C:H2'	22:B0:2786:U:C6	2.38	0.59
22:B0:2898:G:O4'	33:BH:17:VAL:HG22	2.03	0.59
28:BC:88:ARG:NE	35:BJ:30:THR:HA	2.18	0.59
33:BH:118:MET:O	33:BH:122:LEU:HD11	2.02	0.59
35:BJ:101:ILE:HG23	35:BJ:101:ILE:O	2.02	0.59
40:BO:60:TRP:HA	40:BO:95:ALA:O	2.03	0.59
42:BR:11:LEU:HD12	42:BR:11:LEU:O	2.02	0.59
45:BU:44:PHE:CD2	45:BU:78:PHE:HA	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:48:ARG:O	46:BW:52:ARG:HG3	2.01	0.59
1:AA:189:A:N3	1:AA:190:A:H1'	2.17	0.59
1:AA:1171:A:H2'	1:AA:1172:C:C6	2.38	0.59
5:AD:101:VAL:HG21	5:AD:122:ILE:HD13	1.84	0.59
6:AE:156:ARG:HG3	9:AH:68:LYS:NZ	2.18	0.59
8:AG:148:LYS:HG2	12:AK:60:PHE:CE1	2.37	0.59
9:AH:47:ASP:CG	9:AH:48:PHE:H	2.06	0.59
11:AJ:21:ALA:HB2	11:AJ:93:ALA:HB2	1.83	0.59
13:AL:113:ARG:HH12	13:AL:120:ARG:HG3	1.67	0.59
18:AQ:10:ARG:HG2	18:AQ:57:VAL:HG22	1.84	0.59
22:B0:492:A:H5'	22:B0:493:G:OP2	2.03	0.59
22:B0:1493:A:OP1	26:BA:143:VAL:CG2	2.51	0.59
22:B0:2089:C:H42	22:B0:2090:A:H62	1.49	0.59
22:B0:2335:A:O2'	22:B0:2336:A:H8	1.85	0.59
22:B0:2436:G:H21	22:B0:2597:G:H22	1.50	0.59
22:B0:2546:U:H5''	22:B0:2547:A:H5'	1.83	0.59
22:B0:2750:A:H2'	22:B0:2752:C:H41	1.67	0.59
28:BC:31:VAL:HG21	28:BC:104:ALA:HB1	1.85	0.59
29:BD:129:MET:HG3	29:BD:152:ASP:HB3	1.82	0.59
32:BG:36:GLU:C	32:BG:38:CYS:H	2.06	0.59
33:BH:27:ARG:HA	33:BH:27:ARG:CZ	2.33	0.59
35:BJ:36:LYS:HG2	35:BJ:38:GLN:CG	2.33	0.59
37:BL:12:ARG:HA	37:BL:12:ARG:HE	1.68	0.59
37:BL:28:LEU:O	37:BL:115:LEU:HD21	2.02	0.59
37:BL:96:ARG:NE	37:BL:96:ARG:N	2.50	0.59
45:BU:70:VAL:HG23	45:BU:71:LYS:H	1.66	0.59
46:BW:14:LEU:HD22	46:BW:53:VAL:HG23	1.84	0.59
1:AA:21:G:H2'	1:AA:22:G:C8	2.38	0.59
1:AA:80:A:C3'	1:AA:81:A:H5''	2.32	0.59
1:AA:430:A:H1'	1:AA:431:A:C2	2.37	0.59
1:AA:1001:C:H1'	1:AA:1041:G:N2	2.17	0.59
6:AE:20:VAL:HB	6:AE:31:SER:O	2.03	0.59
9:AH:17:GLN:HA	9:AH:64:TYR:OH	2.02	0.59
19:AR:39:VAL:HB	19:AR:43:ILE:CG2	2.32	0.59
22:B0:18:U:H2'	22:B0:19:A:C8	2.37	0.59
22:B0:495:G:H22	41:BQ:57:ASN:ND2	2.01	0.59
22:B0:589:U:H3	28:BC:74:LYS:NZ	2.00	0.59
22:B0:759:G:H2'	22:B0:760:G:C8	2.37	0.59
22:B0:803:U:H3	28:BC:61:ARG:CZ	2.14	0.59
22:B0:851:C:O2	22:B0:851:C:H2'	2.03	0.59
22:B0:870:U:O4'	36:BK:8:LYS:NZ	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:903:C:H2'	22:B0:904:G:C8	2.38	0.59
22:B0:1210:G:H4'	22:B0:1212:G:O4'	2.03	0.59
22:B0:1496:A:N6	26:BA:194:VAL:CG2	2.66	0.59
22:B0:1664:A:N6	22:B0:1996:C:H42	1.91	0.59
22:B0:2123:G:H5''	22:B0:2124:G:O5'	2.02	0.59
22:B0:2262:U:C6	45:BU:12:GLY:HA2	2.37	0.59
22:B0:2351:G:H22	22:B0:2366:A:H2	1.50	0.59
22:B0:2774:C:H2'	22:B0:2775:G:O4'	2.02	0.59
25:B3:58:LEU:HD11	25:B3:115:ALA:HB1	1.83	0.59
26:BA:101:ARG:NH1	26:BA:101:ARG:HB2	2.18	0.59
26:BA:123:ILE:HD13	26:BA:123:ILE:N	2.14	0.59
27:BB:5:VAL:HG13	27:BB:201:LEU:O	2.03	0.59
33:BH:34:ARG:HG3	33:BH:35:ARG:NH2	2.17	0.59
37:BL:36:THR:N	37:BL:110:MET:HG2	2.17	0.59
37:BL:65:LEU:O	37:BL:65:LEU:HD23	2.01	0.59
40:BO:63:ARG:HH22	40:BO:95:ALA:C	2.05	0.59
2:AV:58:A:HO2'	2:AV:60:C:H5	1.48	0.59
4:AC:87:ARG:HH21	4:AC:100:ILE:HG22	1.68	0.59
9:AH:116:ARG:HH11	9:AH:116:ARG:CB	2.12	0.59
10:AI:51:LEU:HD11	10:AI:62:LEU:HD11	1.84	0.59
17:AP:45:GLU:HG3	17:AP:46:LYS:H	1.67	0.59
22:B0:479:A:H4'	43:BS:59:GLU:CG	2.26	0.59
22:B0:531:C:H5'	22:B0:532:A:OP1	2.02	0.59
22:B0:574:A:O2'	22:B0:2055:C:C5	2.52	0.59
22:B0:591:U:H2'	22:B0:592:A:H8	1.68	0.59
22:B0:800:A:C2'	22:B0:801:G:H5''	2.32	0.59
22:B0:996:A:H5''	40:BO:92:LYS:CE	2.33	0.59
22:B0:1492:G:N7	26:BA:153:LEU:HA	2.17	0.59
22:B0:2382:G:H5''	22:B0:2383:G:H5''	1.84	0.59
22:B0:2450:A:OP2	22:B0:2501:C:N4	2.34	0.59
22:B0:2554:U:H2'	22:B0:2555:U:C6	2.38	0.59
25:B3:57:ILE:CG1	25:B3:92:ALA:HB1	2.30	0.59
26:BA:149:LYS:CG	26:BA:150:GLY:N	2.66	0.59
33:BH:111:LYS:HA	33:BH:111:LYS:HZ2	1.66	0.59
36:BK:16:ARG:HH12	36:BK:69:PRO:HG2	1.68	0.59
36:BK:77:PRO:O	36:BK:78:LEU:CB	2.51	0.59
41:BQ:55:ILE:O	41:BQ:58:ALA:HB3	2.03	0.59
1:AA:50:A:O2'	1:AA:51:A:P	2.60	0.59
1:AA:145:G:H1	1:AA:177:G:H1	1.51	0.59
1:AA:889:A:O2'	1:AA:890:G:H1'	2.03	0.59
1:AA:950:U:H3	1:AA:1231:G:H1	1.51	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1002:G:H2'	1:AA:1003:G:H8	1.67	0.59
1:AA:1196:A:H5''	1:AA:1197:A:O5'	2.02	0.59
1:AA:1485:U:C5'	22:B0:1960:A:H4'	2.33	0.59
2:AW:1:G:H5''	49:B1:2:LYS:HD2	1.83	0.59
4:AC:150:VAL:HG13	4:AC:199:VAL:HG22	1.85	0.59
22:B0:959:A:O5'	36:BK:80:VAL:HB	2.02	0.59
22:B0:1044:C:C2'	22:B0:1045:C:H5''	2.32	0.59
22:B0:1695:G:H3'	22:B0:1695:G:N3	2.18	0.59
25:B3:50:GLU:O	25:B5:47:ALA:HB3	2.03	0.59
26:BA:242:HIS:HB3	26:BA:243:PRO:CD	2.33	0.59
30:BE:112:VAL:HG11	30:BE:150:TYR:HB3	1.85	0.59
41:BQ:56:ALA:C	41:BQ:58:ALA:H	2.05	0.59
1:AA:14:U:O5'	1:AA:14:U:H6	1.85	0.59
1:AA:950:U:H2'	1:AA:951:G:C8	2.38	0.59
5:AD:120:LYS:O	5:AD:120:LYS:HD3	2.02	0.59
17:AP:67:ILE:H	17:AP:67:ILE:CD1	2.14	0.59
20:AS:17:LYS:HA	20:AS:20:LYS:HD3	1.84	0.59
22:B0:82:U:H5''	22:B0:295:G:O2'	2.02	0.59
22:B0:870:U:H1'	36:BK:8:LYS:HD2	1.84	0.59
22:B0:937:C:H2'	22:B0:938:G:C8	2.37	0.59
22:B0:1196:C:O2'	22:B0:1227:G:H4'	2.03	0.59
22:B0:1496:A:N3	26:BA:142:ASN:CB	2.57	0.59
22:B0:1992:G:H5''	22:B0:1993:U:OP1	2.02	0.59
22:B0:2677:G:H2'	27:BB:125:TRP:CG	2.37	0.59
24:B2:69:GLY:HA2	24:B2:156:LYS:HB3	1.85	0.59
27:BB:74:GLU:HG2	27:BB:75:ALA:N	2.13	0.59
28:BC:108:ILE:HD13	28:BC:108:ILE:C	2.23	0.59
30:BE:88:LEU:O	30:BE:88:LEU:HD22	2.02	0.59
30:BE:161:VAL:HG13	30:BE:162:ARG:HG2	1.83	0.59
34:BI:52:VAL:HG13	34:BI:52:VAL:O	2.03	0.59
39:BN:45:VAL:HG23	39:BN:65:ASN:OD1	2.03	0.59
40:BO:30:VAL:HB	40:BO:33:VAL:CG2	2.31	0.59
1:AA:278:G:O3'	1:AA:281:G:H5'	2.03	0.59
1:AA:879:C:H2'	1:AA:880:C:C6	2.37	0.59
1:AA:1030:U:H4'	1:AA:1031:C:C5	2.38	0.59
2:AW:19:G:H4'	2:AW:20:G:OP1	2.01	0.59
12:AK:122:PRO:HB2	12:AK:126:ARG:HB2	1.84	0.59
14:AM:3:ILE:HB	14:AM:7:ASN:HD21	1.68	0.59
16:AO:55:LEU:O	16:AO:55:LEU:HD23	2.03	0.59
18:AQ:22:VAL:HG11	18:AQ:60:ILE:HD11	1.84	0.59
20:AS:52:ASN:ND2	20:AS:74:ALA:HB1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AS:83:ALA:CA	22:B0:891:G:N7	2.61	0.59
22:B0:63:A:H4'	22:B0:64:A:N7	2.18	0.59
22:B0:493:G:N3	41:BQ:7:HIS:ND1	2.51	0.59
22:B0:662:G:OP2	28:BC:88:ARG:HG2	2.02	0.59
22:B0:775:G:H5'	22:B0:776:G:OP1	2.02	0.59
22:B0:1246:A:H5''	35:BJ:25:SER:CA	2.33	0.59
22:B0:1418:G:N9	26:BA:99:GLU:HA	2.17	0.59
22:B0:1492:G:C2	26:BA:152:GLN:HB2	2.37	0.59
22:B0:1578:U:H2'	26:BA:66:PHE:CA	2.33	0.59
24:B2:56:GLN:HE22	24:B2:202:GLN:HB2	1.68	0.59
25:B5:57:ILE:HD12	25:B5:57:ILE:N	2.17	0.59
28:BC:59:PRO:O	28:BC:60:TRP:HB2	2.02	0.59
28:BC:85:PHE:HD1	35:BJ:38:GLN:NE2	2.01	0.59
28:BC:151:GLY:HA2	28:BC:187:VAL:CG1	2.33	0.59
29:BD:49:LEU:O	29:BD:49:LEU:HD23	2.03	0.59
29:BD:146:ASP:OD1	29:BD:147:ARG:HG2	2.03	0.59
32:BG:133:ARG:HD2	32:BG:137:LEU:HB3	1.84	0.59
37:BL:38:LEU:HB2	37:BL:39:PRO:CD	2.28	0.59
40:BO:69:ARG:O	40:BO:69:ARG:HG2	2.03	0.59
40:BO:102:LYS:H	40:BO:102:LYS:CE	2.16	0.59
43:BS:34:ILE:HD13	43:BS:34:ILE:C	2.24	0.59
44:BT:4:ILE:HD12	44:BT:4:ILE:N	2.18	0.59
1:AA:497:G:H5''	1:AA:498:U:OP1	2.02	0.58
1:AA:808:C:H2'	1:AA:809:G:H8	1.68	0.58
1:AA:978:A:H3'	20:AS:5:LYS:H	1.66	0.58
1:AA:1148:U:OP1	10:AI:10:ARG:NE	2.36	0.58
1:AA:1360:A:N6	20:AS:6:LYS:HE3	2.18	0.58
2:AW:37:G:H2'	2:AW:38:A:O4'	2.03	0.58
4:AC:78:LYS:HB3	4:AC:78:LYS:NZ	2.17	0.58
5:AD:87:GLU:OE2	5:AD:186:GLU:HA	2.03	0.58
9:AH:45:ILE:CD1	9:AH:60:LEU:HD11	2.33	0.58
11:AJ:30:LYS:NZ	11:AJ:30:LYS:HB3	2.17	0.58
12:AK:13:LYS:NZ	12:AK:15:VAL:HG22	2.18	0.58
13:AL:105:GLY:HA3	13:AL:117:GLY:O	2.01	0.58
22:B0:677:A:H62	22:B0:800:A:N6	2.01	0.58
22:B0:1438:U:H5''	22:B0:1517:G:H5'	1.85	0.58
22:B0:1480:G:H2'	22:B0:1481:C:H4'	1.85	0.58
22:B0:1578:U:H2'	26:BA:66:PHE:CB	2.33	0.58
22:B0:1761:C:H2'	22:B0:1762:A:C5'	2.32	0.58
22:B0:2101:A:H2'	22:B0:2102:G:C8	2.37	0.58
25:B5:69:ILE:HD13	25:B5:87:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:128:THR:C	26:BA:129:LEU:HD22	2.23	0.58
26:BA:140:VAL:HG23	26:BA:161:VAL:CG1	2.22	0.58
27:BB:117:GLY:HA2	27:BB:164:GLN:HE22	1.66	0.58
28:BC:5:LEU:HB2	28:BC:14:VAL:HB	1.85	0.58
33:BH:31:GLU:C	33:BH:33:ALA:H	2.06	0.58
34:BI:66:LYS:NZ	34:BI:81:GLY:HA2	2.17	0.58
39:BN:92:ARG:HA	39:BN:92:ARG:NH1	2.18	0.58
41:BQ:83:LYS:HD2	41:BQ:84:ARG:N	2.18	0.58
45:BU:35:ILE:HG23	45:BU:36:ILE:H	1.67	0.58
46:BW:28:LEU:HD13	46:BW:43:LEU:HD23	1.84	0.58
1:AA:52:C:H42	1:AA:359:G:H1	1.51	0.58
1:AA:653:U:O2	1:AA:653:U:H2'	2.01	0.58
1:AA:965:U:O2'	1:AA:966:G:H5''	2.04	0.58
1:AA:978:A:H3'	20:AS:5:LYS:N	2.18	0.58
1:AA:1039:G:H2'	1:AA:1040:U:C6	2.38	0.58
10:AI:105:ARG:HG2	10:AI:106:ASP:N	2.17	0.58
11:AJ:7:ARG:NH1	11:AJ:7:ARG:HB2	2.17	0.58
12:AK:53:GLY:O	12:AK:56:LYS:HG2	2.02	0.58
15:AN:46:LYS:NZ	15:AN:59:GLN:HB2	2.19	0.58
21:AT:31:ILE:HG12	21:AT:78:LEU:HG	1.83	0.58
22:B0:369:U:P	22:B0:404:A:H62	2.26	0.58
22:B0:400:G:O2'	22:B0:401:A:H5''	2.03	0.58
22:B0:588:U:H5'	28:BC:43:THR:OG1	2.02	0.58
22:B0:589:U:O4	28:BC:74:LYS:HE3	2.03	0.58
22:B0:600:G:C2	28:BC:99:LYS:HG2	2.38	0.58
22:B0:1199:U:N3	22:B0:1246:A:H2	2.01	0.58
22:B0:1580:A:C8	26:BA:68:ARG:HB3	2.38	0.58
22:B0:1761:C:H2'	22:B0:1762:A:O4'	2.02	0.58
22:B0:2276:G:H2'	22:B0:2277:G:C8	2.37	0.58
28:BC:43:THR:O	28:BC:43:THR:CG2	2.50	0.58
33:BH:106:LYS:HD2	33:BH:116:ARG:HH12	1.68	0.58
40:BO:82:LEU:HD23	40:BO:108:LEU:HD21	1.85	0.58
42:BR:60:THR:HA	42:BR:83:ALA:HB1	1.85	0.58
42:BR:68:LYS:HA	42:BR:68:LYS:HZ2	1.68	0.58
45:BU:58:LEU:HB2	45:BU:81:ILE:HD13	1.85	0.58
46:BW:21:LEU:O	46:BW:25:GLN:HG3	2.03	0.58
48:BZ:31:LYS:HD3	48:BZ:31:LYS:N	2.13	0.58
1:AA:51:A:H1'	1:AA:353:A:N7	2.18	0.58
1:AA:426:U:H4'	5:AD:38:GLY:N	2.18	0.58
8:AG:46:LEU:HB3	8:AG:57:GLU:HB2	1.85	0.58
10:AI:11:ARG:HE	10:AI:12:LYS:HE3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:119:LYS:HD3	10:AI:122:ARG:HB3	1.86	0.58
11:AJ:100:ILE:H	11:AJ:100:ILE:CD1	2.10	0.58
20:AS:40:PHE:HB3	20:AS:41:PRO:HD2	1.85	0.58
22:B0:627:A:C4'	22:B0:628:G:OP1	2.51	0.58
22:B0:2156:G:H8	22:B0:2157:G:H3'	1.68	0.58
25:B3:86:LEU:HA	25:B3:91:PRO:HG2	1.85	0.58
28:BC:33:VAL:HG23	28:BC:33:VAL:O	2.02	0.58
28:BC:108:ILE:HD13	28:BC:108:ILE:O	2.03	0.58
30:BE:148:ARG:HH21	30:BE:168:VAL:HG12	1.67	0.58
32:BG:105:LEU:O	32:BG:105:LEU:HD13	2.03	0.58
33:BH:25:LEU:H	33:BH:25:LEU:CD1	2.16	0.58
42:BR:36:LYS:H	42:BR:36:LYS:CD	2.13	0.58
1:AA:17:U:H2'	1:AA:18:C:C6	2.38	0.58
1:AA:187:G:H22	1:AA:191:G:H1'	1.68	0.58
1:AA:819:A:H5''	1:AA:820:U:OP2	2.03	0.58
1:AA:1009:U:H3	1:AA:1020:G:N2	2.02	0.58
2:AU:75:C:H4'	22:B0:2557:G:H5''	1.85	0.58
2:AW:53:G:H1	2:AW:61:C:H42	1.49	0.58
3:AB:214:GLY:HA3	3:AB:231:GLN:NE2	2.18	0.58
7:AF:10:VAL:HG12	7:AF:58:HIS:HB3	1.84	0.58
13:AL:43:LYS:NZ	13:AL:43:LYS:HB3	2.17	0.58
19:AR:7:ARG:HD3	19:AR:7:ARG:N	2.18	0.58
22:B0:1111:A:H4'	22:B0:1112:G:OP1	2.03	0.58
22:B0:1578:U:C5'	26:BA:101:ARG:HD2	2.29	0.58
22:B0:1933:G:H2'	22:B0:1934:C:O4'	2.03	0.58
22:B0:2116:G:H5'	22:B0:2117:A:OP1	2.04	0.58
22:B0:2654:A:O2'	22:B0:2655:G:H4'	2.03	0.58
29:BD:105:ILE:C	29:BD:107:VAL:H	2.06	0.58
37:BL:38:LEU:O	37:BL:40:LYS:HG2	2.03	0.58
39:BN:27:VAL:CG1	39:BN:88:ARG:HD2	2.33	0.58
39:BN:29:VAL:HG12	39:BN:45:VAL:CG1	2.33	0.58
39:BN:50:ARG:HH21	39:BN:100:ARG:HE	1.50	0.58
39:BN:107:ALA:H	39:BN:110:LYS:HB2	1.69	0.58
40:BO:36:GLN:O	40:BO:39:ILE:HG22	2.03	0.58
44:BT:16:ALA:HA	44:BT:19:ARG:CZ	2.34	0.58
44:BT:80:HIS:CG	44:BT:81:PRO:HD2	2.39	0.58
45:BU:69:GLU:HA	45:BU:73:PRO:HB3	1.85	0.58
47:BX:6:ILE:HD12	47:BX:6:ILE:N	2.17	0.58
1:AA:691:G:H2'	1:AA:692:U:C6	2.39	0.58
4:AC:55:VAL:HB	4:AC:66:THR:OG1	2.04	0.58
6:AE:88:HIS:ND1	6:AE:89:THR:HG22	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AT:28:ARG:HA	21:AT:31:ILE:HG22	1.85	0.58
22:B0:457:A:O2'	22:B0:458:G:H4'	2.04	0.58
22:B0:518:G:H2'	22:B0:519:U:C6	2.38	0.58
22:B0:1262:A:H2'	22:B0:1263:U:C6	2.38	0.58
22:B0:1420:U:C2	26:BA:148:GLY:HA2	2.39	0.58
22:B0:1541:G:H2'	22:B0:1542:C:C6	2.38	0.58
22:B0:1578:U:OP2	26:BA:101:ARG:CD	2.47	0.58
22:B0:2176:A:H5'	24:B2:165:ASP:O	2.02	0.58
22:B0:2249:U:H4'	22:B0:2250:G:OP1	2.04	0.58
22:B0:2583:G:H2'	22:B0:2584:U:H6	1.68	0.58
22:B0:2637:U:H2'	22:B0:2638:G:O4'	2.04	0.58
22:B0:2784:U:H2'	22:B0:2785:C:C6	2.38	0.58
23:B9:15:A:H5''	23:B9:16:G:OP2	2.03	0.58
25:B3:84:LYS:O	25:B3:88:GLU:HG3	2.04	0.58
26:BA:220:ARG:HH22	26:BA:237:ARG:NH1	2.01	0.58
26:BA:243:PRO:HB3	26:BA:259:ASN:HD21	1.68	0.58
27:BB:130:GLN:HB3	27:BB:134:HIS:CB	2.23	0.58
28:BC:85:PHE:CD1	35:BJ:38:GLN:HA	2.38	0.58
37:BL:97:ILE:HG13	37:BL:112:TYR:C	2.24	0.58
1:AA:528:C:H4'	1:AA:535:A:N6	2.19	0.58
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.39	0.58
2:AU:73:A:H2'	2:AU:74:C:C6	2.38	0.58
3:AB:221:ARG:NH1	3:AB:229:ALA:HB3	2.18	0.58
8:AG:74:VAL:HG11	8:AG:85:GLN:HB3	1.85	0.58
22:B0:703:U:H2'	22:B0:704:G:O4'	2.02	0.58
22:B0:1359:A:H2'	22:B0:1360:G:C8	2.39	0.58
22:B0:2123:G:C5'	22:B0:2124:G:H4'	2.33	0.58
24:B2:50:ASP:HB3	24:B2:56:GLN:HG3	1.85	0.58
27:BB:157:LYS:H	27:BB:157:LYS:CD	2.14	0.58
29:BD:93:GLU:HG2	29:BD:94:ARG:NH1	2.19	0.58
29:BD:163:GLU:C	29:BD:165:GLY:H	2.04	0.58
33:BH:72:LYS:HA	33:BH:72:LYS:HZ1	1.66	0.58
39:BN:88:ARG:HG2	39:BN:89:GLY:N	2.19	0.58
41:BQ:78:GLU:HG3	41:BQ:79:GLY:N	2.15	0.58
45:BU:13:ARG:HG2	45:BU:14:ASP:N	2.17	0.58
45:BU:68:PHE:CD2	45:BU:69:GLU:HG3	2.38	0.58
49:B1:24:LYS:N	49:B1:24:LYS:HE3	2.18	0.58
1:AA:64:G:H5''	1:AA:65:A:OP1	2.03	0.58
1:AA:452:A:H62	1:AA:480:U:H3	1.51	0.58
11:AJ:36:VAL:HG22	11:AJ:76:ILE:HG12	1.86	0.58
12:AK:69:CYS:O	12:AK:73:VAL:HG23	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AN:68:ARG:HE	15:AN:70:HIS:HB3	1.67	0.58
16:AO:31:LEU:O	16:AO:35:ILE:HG13	2.04	0.58
21:AT:54:GLN:O	21:AT:57:VAL:HG12	2.03	0.58
22:B0:85:G:H2'	22:B0:86:G:H8	1.69	0.58
22:B0:635:C:O2'	22:B0:636:G:H5'	2.04	0.58
22:B0:669:G:H22	28:BC:74:LYS:CB	2.17	0.58
22:B0:1495:A:P	26:BA:189:ALA:C	2.82	0.58
22:B0:1496:A:O2'	26:BA:63:ILE:HB	2.04	0.58
22:B0:1849:G:H2'	22:B0:1850:G:H8	1.69	0.58
22:B0:1943:U:H4'	22:B0:1944:U:O5'	2.03	0.58
22:B0:2165:C:C4	22:B0:2172:U:O2'	2.57	0.58
23:B9:42:C:O4'	29:BD:65:LEU:HD22	2.04	0.58
25:B3:10:ALA:O	25:B3:14:MET:HG2	2.04	0.58
25:B3:50:GLU:HB3	25:B5:15:SER:C	2.24	0.58
27:BB:120:GLY:C	27:BB:124:ARG:HG3	2.24	0.58
28:BC:34:ALA:H	35:BJ:18:ARG:CG	2.09	0.58
33:BH:45:THR:HB	33:BH:46:PRO:HA	1.86	0.58
33:BH:99:ARG:HH22	33:BH:102:GLU:HG2	1.68	0.58
35:BJ:105:ILE:HG23	35:BJ:106:GLU:N	2.18	0.58
39:BN:29:VAL:HG22	39:BN:30:TRP:N	2.12	0.58
1:AA:579:A:H2'	1:AA:580:C:O4'	2.03	0.58
1:AA:791:G:N1	1:AA:1498:U:OP1	2.37	0.58
22:B0:311:A:H5''	22:B0:312:G:OP1	2.04	0.58
22:B0:322:A:O4'	22:B0:340:A:H1'	2.04	0.58
22:B0:582:A:O3'	40:BO:10:ARG:HD2	2.03	0.58
22:B0:669:G:O4'	28:BC:52:VAL:HA	2.04	0.58
22:B0:846:U:O2'	22:B0:848:C:P	2.61	0.58
22:B0:1011:G:O2'	22:B0:1012:U:OP1	2.22	0.58
22:B0:1456:G:H1	22:B0:2703:C:H42	1.51	0.58
22:B0:1578:U:P	26:BA:63:ILE:HA	2.43	0.58
22:B0:1652:A:H2'	22:B0:1653:G:H5''	1.84	0.58
22:B0:2167:U:OP2	22:B0:2167:U:H4'	2.03	0.58
22:B0:2176:A:O5'	24:B2:168:GLY:N	2.35	0.58
22:B0:2472:G:N3	22:B0:2529:G:N2	2.50	0.58
25:B3:17:MET:O	25:B3:21:GLU:HG3	2.03	0.58
26:BA:242:HIS:HB3	26:BA:243:PRO:HD3	1.86	0.58
32:BG:108:ILE:H	32:BG:108:ILE:CD1	2.15	0.58
33:BH:96:ARG:HB2	33:BH:97:PRO:CA	2.33	0.58
38:BM:15:ARG:NE	38:BM:15:ARG:N	2.52	0.58
39:BN:10:GLU:H	39:BN:10:GLU:CD	2.07	0.58
1:AA:144:G:H2'	1:AA:145:G:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:531:U:H4'	1:AA:532:A:C5'	2.32	0.58
1:AA:563:A:H2'	1:AA:563:A:N3	2.19	0.58
1:AA:808:C:H2'	1:AA:809:G:C8	2.39	0.58
19:AR:27:THR:HA	19:AR:30:ASN:ND2	2.18	0.58
22:B0:486:C:N3	41:BQ:6:LYS:HE2	2.18	0.58
22:B0:531:C:H4'	22:B0:532:A:O5'	2.04	0.58
22:B0:794:A:H2'	22:B0:795:C:C6	2.39	0.58
22:B0:942:G:H5''	35:BJ:42:SER:HB3	1.86	0.58
22:B0:1361:G:H1	22:B0:1370:C:N4	2.01	0.58
22:B0:2176:A:P	24:B2:167:ASN:N	2.77	0.58
22:B0:2291:U:H3	22:B0:2341:G:H1	1.50	0.58
22:B0:2336:A:HO2'	22:B0:2337:G:P	2.27	0.58
22:B0:2644:G:O2'	22:B0:2645:G:P	2.62	0.58
24:B2:171:HIS:CG	24:B2:172:THR:N	2.72	0.58
25:B3:17:MET:HB3	25:B3:53:GLU:CG	2.34	0.58
27:BB:60:VAL:C	27:BB:63:PRO:HD2	2.24	0.58
28:BC:108:ILE:HG13	28:BC:180:LEU:HB3	1.85	0.58
33:BH:15:TRP:HE3	33:BH:15:TRP:N	2.01	0.58
35:BJ:76:GLU:HB3	35:BJ:108:ALA:CB	2.34	0.58
37:BL:55:ALA:HA	37:BL:62:ASN:HB3	1.85	0.58
39:BN:71:ARG:H	39:BN:71:ARG:HE	1.52	0.58
42:BR:8:LEU:CB	46:BW:29:ARG:HD2	2.28	0.58
46:BW:18:LEU:O	46:BW:22:LEU:HB2	2.04	0.58
1:AA:419:C:O2'	5:AD:39:GLN:HG2	2.04	0.58
1:AA:424:G:N2	5:AD:39:GLN:NE2	2.51	0.58
1:AA:950:U:H2'	1:AA:951:G:H8	1.68	0.58
1:AA:1429:A:H2'	1:AA:1430:A:C8	2.39	0.58
7:AF:16:GLU:O	7:AF:19:PRO:HD2	2.04	0.58
9:AH:8:ASP:O	9:AH:12:ARG:HG3	2.03	0.58
12:AK:33:ILE:HG12	12:AK:69:CYS:SG	2.44	0.58
13:AL:56:LEU:HD11	13:AL:81:ILE:HG13	1.85	0.58
17:AP:19:VAL:O	17:AP:36:VAL:HG12	2.03	0.58
22:B0:493:G:O4'	41:BQ:9:HIS:N	2.37	0.58
22:B0:1131:G:N7	22:B0:2025:C:H4'	2.19	0.58
22:B0:1488:G:C1'	26:BA:198:GLU:HA	2.33	0.58
22:B0:1996:C:C6	27:BB:138:LEU:N	2.62	0.58
22:B0:2160:C:C6	22:B0:2161:C:O3'	2.57	0.58
24:B2:29:LEU:HD21	24:B2:41:VAL:HG21	1.85	0.58
28:BC:25:GLU:HA	28:BC:28:VAL:HG22	1.84	0.58
28:BC:137:LYS:NZ	28:BC:137:LYS:HB3	2.19	0.58
33:BH:28:LEU:O	33:BH:28:LEU:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:99:ARG:HA	33:BH:99:ARG:NH1	2.19	0.58
35:BJ:105:ILE:HG13	35:BJ:106:GLU:N	2.16	0.58
40:BO:14:LYS:C	40:BO:16:ILE:N	2.57	0.58
44:BT:77:VAL:HG13	44:BT:89:ILE:HG13	1.83	0.58
1:AA:370:C:HO2'	1:AA:484:G:H5''	1.69	0.57
1:AA:483:C:OP2	1:AA:484:G:O3'	2.22	0.57
1:AA:591:U:H2'	1:AA:592:G:C8	2.39	0.57
1:AA:979:C:H4'	20:AS:3:SER:HB2	1.85	0.57
1:AA:1240:U:H3'	1:AA:1241:G:C8	2.38	0.57
1:AA:1306:A:N6	1:AA:1331:G:H1'	2.19	0.57
2:AW:18:G:H1	2:AW:55:U:H6	1.52	0.57
4:AC:150:VAL:HG22	4:AC:199:VAL:HG13	1.85	0.57
19:AR:39:VAL:HB	19:AR:43:ILE:HG23	1.86	0.57
21:AT:49:ALA:O	21:AT:52:GLU:HG2	2.04	0.57
22:B0:518:G:H4'	41:BQ:18:ARG:HG3	1.85	0.57
22:B0:553:G:H2'	22:B0:554:U:O4'	2.04	0.57
22:B0:636:G:H4'	22:B0:638:G:OP1	2.04	0.57
22:B0:865:C:C2'	22:B0:866:A:H8	2.16	0.57
22:B0:1578:U:H5''	26:BA:101:ARG:NH1	2.19	0.57
22:B0:1992:G:N2	27:BB:138:LEU:HD11	2.18	0.57
22:B0:2075:U:P	22:B0:2238:G:H2'	2.44	0.57
22:B0:2128:G:H4'	22:B0:2165:C:C3'	2.27	0.57
22:B0:2321:U:H2'	22:B0:2322:A:H5'	1.86	0.57
22:B0:2780:G:H4'	33:BH:116:ARG:NE	2.15	0.57
27:BB:28:GLU:CA	27:BB:186:LEU:HD22	2.31	0.57
27:BB:124:ARG:NH1	27:BB:163:GLY:N	2.52	0.57
41:BQ:92:ARG:HG3	41:BQ:93:ALA:N	2.17	0.57
42:BR:11:LEU:HB3	42:BR:34:VAL:HG12	1.86	0.57
46:BW:3:ALA:O	46:BW:7:ARG:HG3	2.04	0.57
1:AA:678:U:H2'	1:AA:679:C:C6	2.39	0.57
1:AA:974:A:H5'	1:AA:975:A:OP1	2.02	0.57
1:AA:982:U:H4'	1:AA:983:A:C5'	2.33	0.57
1:AA:1193:G:O2'	1:AA:1194:U:H5'	2.03	0.57
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.39	0.57
2:AU:75:C:O2	2:AU:75:C:C2'	2.52	0.57
18:AQ:35:LYS:NZ	18:AQ:37:ILE:HG22	2.18	0.57
22:B0:749:A:H4'	22:B0:1615:C:N4	2.17	0.57
22:B0:749:A:H1'	22:B0:1617:C:O2	2.04	0.57
22:B0:799:G:H2'	28:BC:56:GLY:HA3	1.86	0.57
22:B0:868:U:O5'	22:B0:868:U:H6	1.86	0.57
22:B0:1388:G:H2'	22:B0:1389:G:H8	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1422:G:C1'	26:BA:149:LYS:HE2	2.34	0.57
22:B0:1654:A:H2'	22:B0:1655:A:C8	2.39	0.57
22:B0:2154:A:C4'	22:B0:2155:U:OP1	2.52	0.57
22:B0:2405:G:H1	22:B0:2412:A:H61	1.52	0.57
25:B5:46:GLU:HB3	25:B5:50:GLU:CD	2.24	0.57
28:BC:159:LEU:CD1	28:BC:162:ARG:HD3	2.31	0.57
29:BD:135:ILE:HD12	29:BD:135:ILE:N	2.19	0.57
31:BF:18:GLN:CD	31:BF:18:GLN:H	2.07	0.57
34:BI:116:ILE:O	34:BI:116:ILE:HD13	2.03	0.57
36:BK:7:THR:H	36:BK:10:ARG:NH2	2.01	0.57
36:BK:42:THR:O	36:BK:46:ILE:HG13	2.04	0.57
37:BL:44:LEU:O	37:BL:48:VAL:HG12	2.04	0.57
39:BN:71:ARG:HE	39:BN:71:ARG:N	2.02	0.57
39:BN:100:ARG:NE	39:BN:100:ARG:HA	2.19	0.57
39:BN:102:ARG:HH11	39:BN:102:ARG:HG3	1.69	0.57
42:BR:7:LEU:CD2	46:BW:23:ARG:HA	2.34	0.57
43:BS:71:ILE:O	43:BS:82:VAL:HG21	2.03	0.57
45:BU:45:HIS:HD2	45:BU:79:ILE:HG13	1.69	0.57
45:BU:65:LYS:HD3	45:BU:65:LYS:N	2.19	0.57
48:BZ:51:ARG:HG3	48:BZ:51:ARG:HH11	1.69	0.57
1:AA:397:A:H3'	1:AA:397:A:N3	2.19	0.57
1:AA:603:U:H2'	1:AA:604:G:H8	1.69	0.57
1:AA:933:G:N2	10:AI:128:LYS:HB2	2.19	0.57
6:AE:89:THR:HG23	6:AE:90:GLY:N	2.19	0.57
22:B0:1495:A:N6	26:BA:151:GLY:HA3	2.18	0.57
22:B0:1579:A:H3'	26:BA:66:PHE:O	2.03	0.57
22:B0:2012:G:H4'	41:BQ:86:MET:HG2	1.86	0.57
22:B0:2812:G:H2'	22:B0:2813:A:C8	2.39	0.57
22:B0:2897:U:H1'	33:BH:16:TYR:CD1	2.38	0.57
23:B9:37:C:H41	23:B9:44:G:H1	1.53	0.57
24:B2:193:VAL:HG13	24:B2:196:LYS:HE2	1.87	0.57
25:B3:57:ILE:O	25:B3:117:VAL:HG13	2.04	0.57
27:BB:79:LEU:H	27:BB:79:LEU:CD2	2.14	0.57
28:BC:34:ALA:HB2	35:BJ:20:GLY:O	2.04	0.57
29:BD:93:GLU:HG2	29:BD:94:ARG:HH12	1.68	0.57
34:BI:46:ALA:O	34:BI:48:PRO:HD3	2.04	0.57
34:BI:66:LYS:HG2	34:BI:80:ASP:O	2.04	0.57
36:BK:62:LYS:HB3	36:BK:106:ASP:HB2	1.86	0.57
37:BL:32:GLU:HA	37:BL:115:LEU:HD13	1.86	0.57
43:BS:43:LYS:C	43:BS:45:GLN:H	2.07	0.57
43:BS:61:GLU:HG2	43:BS:63:ALA:N	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BU:23:LYS:HZ2	45:BU:45:HIS:HB2	1.69	0.57
1:AA:827:U:H3	1:AA:872:A:H61	1.50	0.57
1:AA:962:C:H2'	1:AA:963:G:H8	1.68	0.57
1:AA:1266:G:N3	1:AA:1268:G:C8	2.72	0.57
1:AA:1317:C:C4	20:AS:8:PRO:HD3	2.38	0.57
1:AA:1340:A:H4'	2:AV:32:C:H5''	1.85	0.57
1:AA:1401:G:N1	1:AA:1504:G:N2	2.53	0.57
3:AB:46:VAL:HA	3:AB:49:PHE:HD2	1.70	0.57
4:AC:29:ALA:HB2	15:AN:99:SER:HB3	1.86	0.57
4:AC:64:ARG:HA	4:AC:99:GLN:HB3	1.85	0.57
6:AE:80:LEU:HD22	6:AE:80:LEU:N	2.19	0.57
15:AN:40:ARG:HG2	20:AS:13:HIS:HB2	1.86	0.57
17:AP:32:PHE:HZ	17:AP:35:ARG:HH21	1.53	0.57
22:B0:215:G:H4'	22:B0:216:A:C5'	2.35	0.57
22:B0:960:A:N3	22:B0:2497:A:O4'	2.38	0.57
22:B0:1195:G:H2'	22:B0:1196:C:C6	2.39	0.57
22:B0:1923:U:H2'	22:B0:1924:C:C6	2.39	0.57
23:B9:100:G:H2'	23:B9:101:A:C8	2.39	0.57
24:B2:89:ALA:HB1	24:B2:152:VAL:HG11	1.87	0.57
42:BR:77:ARG:NH2	42:BR:79:ASP:N	2.50	0.57
45:BU:37:VAL:HG22	45:BU:38:ARG:N	2.20	0.57
45:BU:42:THR:OG1	45:BU:65:LYS:HA	2.04	0.57
1:AA:452:A:N6	1:AA:480:U:H3	2.02	0.57
1:AA:593:U:H3	1:AA:646:G:H1	1.51	0.57
1:AA:614:C:H2'	1:AA:615:G:C8	2.38	0.57
1:AA:1317:C:H2'	1:AA:1318:A:H5'	1.86	0.57
16:AO:27:GLN:O	16:AO:31:LEU:HD13	2.05	0.57
22:B0:776:G:O2'	22:B0:777:G:OP2	2.21	0.57
22:B0:1046:A:C6	25:B5:28:GLU:HB3	2.39	0.57
22:B0:1201:U:H2'	35:BJ:14:LYS:CG	2.32	0.57
22:B0:1487:G:H22	26:BA:199:HIS:HB2	1.69	0.57
22:B0:1488:G:H1'	26:BA:198:GLU:HA	1.86	0.57
22:B0:1579:A:O2'	26:BA:130:PRO:HG3	2.04	0.57
22:B0:1666:G:H2'	22:B0:1667:G:O4'	2.03	0.57
22:B0:2147:A:H2'	22:B0:2148:G:H4'	1.86	0.57
22:B0:2262:U:P	45:BU:13:ARG:HD3	2.44	0.57
22:B0:2450:A:H5''	22:B0:2497:A:N6	2.19	0.57
22:B0:2639:A:C6	22:B0:2640:G:H1'	2.40	0.57
25:B3:108:LYS:O	25:B3:112:GLU:HG3	2.04	0.57
25:B5:73:ARG:NH1	25:B5:73:ARG:HB3	2.19	0.57
26:BA:75:ALA:O	26:BA:114:GLN:HA	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:211:ARG:HA	26:BA:211:ARG:NE	2.19	0.57
28:BC:184:ASP:H	35:BJ:17:LYS:HE2	1.70	0.57
32:BG:18:ASN:CG	32:BG:19:PRO:HA	2.25	0.57
33:BH:96:ARG:CD	33:BH:99:ARG:H	2.13	0.57
44:BT:61:LEU:O	44:BT:71:LYS:HA	2.05	0.57
45:BU:38:ARG:HA	45:BU:38:ARG:NH1	2.19	0.57
45:BU:48:ALA:HB2	45:BU:76:ARG:HE	1.70	0.57
1:AA:244:U:C1'	1:AA:894:G:H1'	2.16	0.57
1:AA:381:C:H2'	1:AA:382:A:O4'	2.04	0.57
1:AA:908:A:H2'	1:AA:909:A:H8	1.68	0.57
1:AA:1306:A:H62	1:AA:1331:G:H1'	1.70	0.57
1:AA:1344:C:H4'	10:AI:119:LYS:HZ1	1.69	0.57
2:AU:35:A:H2'	2:AU:36:A:C8	2.39	0.57
4:AC:110:LEU:HG	4:AC:143:LEU:CD2	2.34	0.57
7:AF:8:PHE:CE1	7:AF:10:VAL:HB	2.40	0.57
11:AJ:14:ASP:HB3	11:AJ:17:LEU:CG	2.34	0.57
20:AS:8:PRO:HB2	20:AS:10:ILE:HD11	1.87	0.57
22:B0:122:G:N1	22:B0:130:C:N3	2.53	0.57
22:B0:538:A:H2'	22:B0:539:G:H5''	1.86	0.57
22:B0:1375:U:H2'	22:B0:1376:C:C6	2.39	0.57
28:BC:44:ARG:HG2	28:BC:90:GLN:HG3	1.86	0.57
37:BL:28:LEU:HD13	37:BL:45:ARG:NH2	2.18	0.57
37:BL:34:ILE:HD12	37:BL:34:ILE:N	2.19	0.57
41:BQ:7:HIS:CD2	41:BQ:50:VAL:HG11	2.39	0.57
41:BQ:7:HIS:NE2	41:BQ:103:ILE:HB	2.19	0.57
1:AA:18:C:H2'	1:AA:19:A:H8	1.69	0.57
1:AA:60:A:O2'	1:AA:61:G:P	2.62	0.57
1:AA:426:U:H2'	1:AA:427:U:H6	1.66	0.57
1:AA:655:A:H1'	1:AA:755:G:H4'	1.87	0.57
1:AA:1487:G:O2'	1:AA:1488:G:H5'	2.04	0.57
4:AC:106:ARG:HG2	4:AC:107:LYS:CD	2.35	0.57
12:AK:122:PRO:HG2	12:AK:127:ARG:HG2	1.87	0.57
13:AL:109:ARG:NH1	13:AL:111:GLN:HB2	2.19	0.57
22:B0:84:A:H4'	22:B0:85:G:C4'	2.34	0.57
22:B0:343:C:H2'	22:B0:347:A:C8	2.40	0.57
22:B0:618:G:OP2	28:BC:198:GLU:HB3	2.05	0.57
22:B0:912:C:H2'	22:B0:913:U:C6	2.39	0.57
22:B0:931:U:H5''	22:B0:932:U:O5'	2.04	0.57
22:B0:1499:U:H2'	22:B0:1500:A:C8	2.39	0.57
22:B0:1771:C:H2'	22:B0:1772:A:C8	2.39	0.57
24:B2:22:ILE:HD12	24:B2:22:ILE:N	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:123:ILE:O	26:BA:123:ILE:HG12	2.05	0.57
26:BA:143:VAL:O	26:BA:152:GLN:N	2.29	0.57
26:BA:146:LYS:HG3	26:BA:147:PRO:HD2	1.86	0.57
33:BH:20:ALA:HA	33:BH:23:LYS:NZ	2.19	0.57
34:BI:17:ARG:HA	34:BI:17:ARG:NE	2.19	0.57
37:BL:41:ALA:O	37:BL:45:ARG:HG2	2.04	0.57
37:BL:53:THR:HG22	37:BL:54:LEU:HD22	1.86	0.57
39:BN:3:ILE:HG22	39:BN:3:ILE:O	2.04	0.57
45:BU:23:LYS:HD3	45:BU:56:HIS:CG	2.40	0.57
1:AA:201:G:C6	1:AA:203:U:H1'	2.40	0.57
1:AA:518:C:H4'	1:AA:519:C:H5''	1.86	0.57
1:AA:566:G:C5'	1:AA:567:G:OP1	2.49	0.57
1:AA:1197:A:OP1	1:AA:1197:A:H3'	2.04	0.57
1:AA:1222:G:H1'	20:AS:1:PRO:HA	1.86	0.57
1:AA:1360:A:C6	20:AS:6:LYS:HE3	2.40	0.57
1:AA:1453:G:H3'	1:AA:1453:G:N3	2.19	0.57
2:AU:20:G:N2	2:AU:22:G:H5'	2.19	0.57
2:AU:74:C:O3'	22:B0:2556:C:H3'	2.05	0.57
12:AK:30:ILE:HD13	12:AK:30:ILE:C	2.25	0.57
15:AN:81:ILE:CD1	15:AN:82:LYS:HG2	2.35	0.57
18:AQ:11:VAL:HG23	18:AQ:56:ASP:O	2.04	0.57
22:B0:776:G:O2'	22:B0:777:G:C5'	2.52	0.57
22:B0:809:G:H4'	22:B0:1254:A:C1'	2.35	0.57
22:B0:960:A:N9	22:B0:2496:C:H5''	2.19	0.57
22:B0:2778:A:O2'	22:B0:2779:U:OP1	2.20	0.57
24:B2:208:ILE:HD13	24:B2:208:ILE:N	2.11	0.57
25:B3:50:GLU:OE2	25:B5:11:VAL:O	2.23	0.57
25:B5:14:MET:HB3	25:B5:18:ASP:CB	2.34	0.57
25:B5:46:GLU:O	25:B5:49:GLU:N	2.34	0.57
32:BG:83:ALA:CB	32:BG:137:LEU:HB2	2.35	0.57
32:BG:133:ARG:HG3	32:BG:137:LEU:CB	2.35	0.57
33:BH:16:TYR:HD2	33:BH:17:VAL:H	1.53	0.57
33:BH:45:THR:HB	33:BH:46:PRO:C	2.24	0.57
35:BJ:60:ARG:HB3	35:BJ:60:ARG:HH11	1.70	0.57
39:BN:91:VAL:CG1	39:BN:92:ARG:H	2.16	0.57
39:BN:95:LYS:HG3	39:BN:97:TYR:HE1	1.70	0.57
40:BO:108:LEU:O	40:BO:108:LEU:HD13	2.05	0.57
41:BQ:28:LYS:CA	41:BQ:70:LYS:HD2	2.34	0.57
1:AA:33:A:H4'	1:AA:364:A:H1'	1.87	0.57
1:AA:246:A:O2'	1:AA:247:G:H4'	2.03	0.57
1:AA:499:A:C4'	1:AA:500:G:OP1	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1297:G:H1	8:AG:41:ILE:HD11	1.70	0.57
18:AQ:60:ILE:HD12	18:AQ:60:ILE:N	2.20	0.57
19:AR:47:ARG:HE	19:AR:49:LYS:HB2	1.69	0.57
22:B0:611:C:H42	22:B0:618:G:N2	2.00	0.57
22:B0:762:U:H1'	22:B0:763:G:C8	2.39	0.57
22:B0:786:C:H2'	22:B0:787:C:C6	2.39	0.57
22:B0:959:A:O4'	36:BK:80:VAL:HB	2.04	0.57
22:B0:1416:G:H4'	22:B0:1587:A:C2	2.40	0.57
22:B0:1454:A:H3'	22:B0:1455:U:C5'	2.34	0.57
22:B0:1491:A:C8	26:BA:175:LEU:N	2.73	0.57
22:B0:1960:A:H2'	22:B0:1961:C:C6	2.40	0.57
22:B0:2225:A:O2'	22:B0:2226:C:OP2	2.15	0.57
22:B0:2478:A:H4'	22:B0:2528:U:C4'	2.34	0.57
23:B9:48:U:H2'	23:B9:49:C:C6	2.40	0.57
26:BA:54:GLY:H	26:BA:216:ARG:NH2	2.03	0.57
29:BD:47:LYS:HG2	29:BD:48:LEU:N	2.16	0.57
33:BH:114:LEU:HD13	33:BH:114:LEU:N	2.14	0.57
36:BK:63:ILE:HD13	36:BK:64:TRP:N	2.20	0.57
40:BO:2:ARG:HG2	40:BO:3:VAL:N	2.18	0.57
40:BO:40:LYS:HE2	40:BO:44:TYR:HB3	1.87	0.57
41:BQ:96:ILE:HG22	41:BQ:98:LYS:H	1.69	0.57
1:AA:34:C:H2'	1:AA:35:G:C8	2.40	0.57
1:AA:652:U:H2'	1:AA:653:U:H5''	1.87	0.57
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.05	0.57
1:AA:960:U:HO2'	1:AA:961:U:P	2.28	0.57
2:AV:35:A:H2'	2:AV:36:A:H8	1.70	0.57
4:AC:48:LYS:O	4:AC:74:ILE:HD13	2.05	0.57
5:AD:2:ARG:NE	5:AD:66:VAL:HA	2.19	0.57
18:AQ:5:ARG:O	18:AQ:61:ARG:HA	2.04	0.57
22:B0:300:A:H2'	22:B0:335:C:H5''	1.85	0.57
22:B0:669:G:O6	28:BC:68:ALA:HB2	2.05	0.57
22:B0:959:A:O2'	22:B0:2495:G:C2'	2.52	0.57
22:B0:1439:A:OP1	22:B0:1517:G:H5''	2.05	0.57
22:B0:1494:A:N6	26:BA:188:ARG:HG3	2.20	0.57
22:B0:1992:G:H22	27:BB:138:LEU:CD1	2.17	0.57
22:B0:2227:A:H2'	22:B0:2228:G:C5'	2.31	0.57
22:B0:2500:U:H2'	22:B0:2501:C:H5'	1.87	0.57
22:B0:2547:A:N6	34:BI:28:SER:HB3	2.20	0.57
22:B0:2565:A:H2'	22:B0:2566:A:C1'	2.35	0.57
24:B2:62:THR:HG23	24:B2:64:LEU:HG	1.87	0.57
28:BC:88:ARG:N	28:BC:89:PRO:CD	2.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:114:ARG:HB3	28:BC:117:ARG:CG	2.34	0.57
29:BD:106:ALA:HB2	29:BD:138:PRO:HD3	1.87	0.57
32:BG:67:THR:HG22	32:BG:68:PHE:N	2.20	0.57
33:BH:123:LYS:HA	33:BH:123:LYS:HZ2	1.68	0.57
35:BJ:70:LYS:HD3	35:BJ:70:LYS:N	2.20	0.57
37:BL:28:LEU:HD23	37:BL:28:LEU:H	1.69	0.57
40:BO:63:ARG:HE	40:BO:99:VAL:HB	1.70	0.57
40:BO:73:ILE:CD1	40:BO:77:LYS:HB3	2.34	0.57
40:BO:116:LEU:H	40:BO:116:LEU:CD2	2.17	0.57
48:BZ:41:HIS:O	48:BZ:42:ILE:HD13	2.05	0.57
49:B1:26:LYS:H	49:B1:26:LYS:HE3	1.70	0.57
1:AA:405:U:H5''	1:AA:406:G:O4'	2.04	0.56
1:AA:434:U:H2'	1:AA:435:A:H8	1.68	0.56
5:AD:147:LYS:N	5:AD:147:LYS:HD2	2.20	0.56
8:AG:30:MET:SD	8:AG:33:GLY:HA2	2.44	0.56
12:AK:106:ILE:HD13	12:AK:106:ILE:C	2.24	0.56
19:AR:55:ALA:O	19:AR:59:LYS:HG2	2.05	0.56
22:B0:589:U:O2	28:BC:73:ILE:HD12	2.05	0.56
22:B0:807:U:H2'	22:B0:808:G:H8	1.69	0.56
22:B0:977:G:H4'	22:B0:1001:A:H2	1.69	0.56
22:B0:1246:A:H4'	28:BC:37:ALA:O	2.05	0.56
22:B0:1248:G:O2'	22:B0:1249:U:OP1	2.19	0.56
22:B0:1422:G:C2'	22:B0:1423:A:H5''	2.29	0.56
22:B0:1498:C:H42	26:BA:155:ARG:HG2	1.70	0.56
22:B0:2282:G:OP1	22:B0:2283:C:H1'	2.05	0.56
22:B0:2514:U:H2'	22:B0:2515:C:C6	2.40	0.56
22:B0:2896:U:O2	33:BH:39:LYS:HG2	2.05	0.56
25:B5:84:LYS:NZ	25:B5:84:LYS:HB3	2.20	0.56
28:BC:44:ARG:HA	28:BC:90:GLN:HA	1.85	0.56
28:BC:118:LEU:H	28:BC:118:LEU:CD2	2.16	0.56
29:BD:32:LYS:HD2	29:BD:32:LYS:O	2.05	0.56
32:BG:92:PRO:O	32:BG:93:ASN:CB	2.52	0.56
32:BG:99:LYS:HD2	32:BG:99:LYS:O	2.04	0.56
33:BH:110:PRO:O	33:BH:111:LYS:HG2	2.05	0.56
35:BJ:78:ARG:HD3	35:BJ:126:ARG:NH1	2.20	0.56
42:BR:60:THR:HA	42:BR:83:ALA:CB	2.35	0.56
45:BU:9:THR:HG22	45:BU:10:ARG:H	1.70	0.56
47:BX:20:LYS:O	47:BX:24:LEU:HG	2.05	0.56
1:AA:6:G:H22	6:AE:105:ILE:HG13	1.67	0.56
1:AA:419:C:C1'	5:AD:39:GLN:CB	2.78	0.56
1:AA:430:A:H1'	1:AA:431:A:C6	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1053:G:H5'	1:AA:1054:C:H5'	1.87	0.56
2:AV:37:G:H2'	2:AV:38:A:O4'	2.05	0.56
2:AW:3:G:H5'	22:B0:1880:U:OP1	2.04	0.56
3:AB:202:ASN:HD22	3:AB:203:ASP:N	2.03	0.56
4:AC:130:ARG:HE	6:AE:53:ARG:HD2	1.65	0.56
13:AL:29:LYS:HG3	13:AL:58:ASN:HD21	1.69	0.56
15:AN:46:LYS:O	15:AN:46:LYS:HD3	2.04	0.56
16:AO:81:ILE:HG21	16:AO:87:ARG:HE	1.70	0.56
22:B0:109:C:H2'	22:B0:110:G:H8	1.70	0.56
22:B0:482:A:H1'	22:B0:498:G:H21	1.68	0.56
22:B0:1002:G:H2'	22:B0:1003:G:C8	2.41	0.56
22:B0:1046:A:O2'	25:B5:25:ALA:O	2.20	0.56
22:B0:1673:G:H2'	22:B0:1674:G:H5''	1.85	0.56
22:B0:1872:A:C2	22:B0:2412:A:H5'	2.40	0.56
22:B0:2052:A:H61	22:B0:2617:U:H3	1.52	0.56
22:B0:2108:A:C2	22:B0:2109:U:H1'	2.39	0.56
22:B0:2180:U:OP2	22:B0:2181:U:C6	2.58	0.56
22:B0:2407:A:H2'	22:B0:2408:U:C6	2.40	0.56
22:B0:2515:C:C5	27:BB:154:LYS:HB2	2.39	0.56
25:B5:108:LYS:O	25:B5:112:GLU:HG3	2.06	0.56
26:BA:101:ARG:HB3	26:BA:101:ARG:HH11	1.70	0.56
26:BA:141:HIS:N	26:BA:141:HIS:HD2	2.02	0.56
27:BB:37:VAL:HA	27:BB:78:GLY:CA	2.33	0.56
27:BB:122:VAL:C	27:BB:124:ARG:H	2.08	0.56
27:BB:122:VAL:HB	27:BB:141:ARG:HG2	1.86	0.56
34:BI:51:LYS:O	34:BI:51:LYS:HD3	2.05	0.56
37:BL:28:LEU:HD23	37:BL:28:LEU:N	2.20	0.56
41:BQ:23:LEU:C	41:BQ:25:ARG:HE	2.08	0.56
44:BT:55:GLU:O	44:BT:59:GLU:HG3	2.05	0.56
48:BZ:29:VAL:HG11	48:BZ:32:THR:HG23	1.87	0.56
48:BZ:29:VAL:HG13	48:BZ:47:TYR:CZ	2.40	0.56
1:AA:31:G:O2'	1:AA:46:G:H4'	2.05	0.56
1:AA:33:A:H4'	1:AA:364:A:C1'	2.35	0.56
1:AA:129:A:H4'	1:AA:130:A:OP1	2.05	0.56
1:AA:335:C:H2'	1:AA:336:A:H8	1.70	0.56
1:AA:570:G:H5'	1:AA:820:U:O4'	2.05	0.56
1:AA:655:A:H8	1:AA:655:A:O5'	1.87	0.56
1:AA:689:C:H2'	1:AA:690:G:C8	2.41	0.56
1:AA:1385:G:H2'	10:AI:128:LYS:HZ2	1.69	0.56
2:AU:75:C:N4	22:B0:2558:C:C5	2.73	0.56
2:AW:18:G:C2'	2:AW:57:G:H22	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:115:GLN:HE22	5:AD:153:ARG:HH12	1.53	0.56
5:AD:169:TRP:CD2	5:AD:185:PRO:HB3	2.40	0.56
12:AK:117:HIS:O	12:AK:118:ASN:HB2	2.05	0.56
16:AO:7:THR:O	16:AO:11:VAL:HG23	2.05	0.56
16:AO:56:LEU:HD12	16:AO:57:ARG:CZ	2.35	0.56
18:AQ:28:VAL:O	18:AQ:37:ILE:HG12	2.05	0.56
22:B0:351:C:C2	22:B0:352:A:H1'	2.40	0.56
22:B0:368:A:H2'	22:B0:369:U:O4'	2.05	0.56
22:B0:493:G:H21	41:BQ:7:HIS:CG	2.23	0.56
22:B0:659:G:H2'	22:B0:660:C:C6	2.39	0.56
22:B0:874:G:H5'	36:BK:25:ASP:HB3	1.88	0.56
22:B0:960:A:H3'	22:B0:2496:C:H5''	1.87	0.56
22:B0:1324:G:H4'	22:B0:1616:A:N6	2.20	0.56
22:B0:1416:G:C2	26:BA:94:LEU:HD22	2.40	0.56
22:B0:1426:G:H1'	22:B0:1572:A:N6	2.20	0.56
22:B0:1629:U:H2'	22:B0:1630:A:C8	2.40	0.56
22:B0:1833:C:H2'	22:B0:1834:U:N1	2.19	0.56
22:B0:1872:A:O2'	22:B0:1877:A:H5'	2.05	0.56
22:B0:2093:G:H2'	22:B0:2094:A:H8	1.70	0.56
22:B0:2677:G:H4'	27:BB:160:LYS:HD3	1.88	0.56
24:B2:64:LEU:HD12	24:B2:160:VAL:HG11	1.87	0.56
26:BA:64:VAL:HG11	26:BA:150:GLY:HA2	1.87	0.56
26:BA:142:ASN:CB	26:BA:190:THR:OG1	2.54	0.56
26:BA:175:LEU:C	26:BA:177:SER:H	2.09	0.56
28:BC:24:ASN:HB2	28:BC:27:LEU:HB2	1.88	0.56
28:BC:91:ASP:HA	35:BJ:29:LYS:CB	2.28	0.56
28:BC:92:HIS:N	35:BJ:29:LYS:N	2.53	0.56
32:BG:74:PRO:O	32:BG:75:ALA:CB	2.52	0.56
32:BG:91:LYS:HD3	32:BG:91:LYS:N	2.17	0.56
33:BH:123:LYS:HA	33:BH:123:LYS:HZ1	1.68	0.56
35:BJ:46:VAL:HG23	35:BJ:47:ARG:N	2.15	0.56
37:BL:22:ARG:O	37:BL:23:ASN:HB2	2.05	0.56
37:BL:36:THR:HG1	37:BL:40:LYS:HB2	1.69	0.56
39:BN:37:LYS:HD2	39:BN:37:LYS:O	2.03	0.56
42:BR:13:ALA:HB2	46:BW:32:ALA:HB1	1.88	0.56
43:BS:57:ILE:HD13	43:BS:57:ILE:C	2.26	0.56
45:BU:17:ALA:HB1	45:BU:35:ILE:HA	1.87	0.56
1:AA:640:A:H2'	1:AA:641:U:O4'	2.05	0.56
1:AA:684:U:H2'	1:AA:685:G:O4'	2.06	0.56
1:AA:892:A:H4'	1:AA:1415:G:H4'	1.87	0.56
1:AA:1484:C:H2'	1:AA:1485:U:O4'	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AV:19:G:H4'	2:AV:20:G:OP1	2.05	0.56
5:AD:76:LYS:NZ	5:AD:76:LYS:HB3	2.19	0.56
6:AE:15:ILE:HB	6:AE:35:LEU:HB2	1.86	0.56
7:AF:12:PRO:HD2	7:AF:54:LEU:HD23	1.88	0.56
7:AF:89:VAL:O	7:AF:89:VAL:HG23	2.05	0.56
9:AH:29:SER:HB3	9:AH:32:LYS:CG	2.34	0.56
10:AI:114:LYS:N	10:AI:120:ALA:HB2	2.19	0.56
22:B0:599:A:H2'	22:B0:600:G:H8	1.69	0.56
22:B0:677:A:N6	22:B0:800:A:N6	2.53	0.56
22:B0:1313:U:O2	22:B0:1313:U:C2'	2.53	0.56
22:B0:1343:G:H5'	22:B0:1598:A:OP2	2.06	0.56
22:B0:1822:C:H2'	22:B0:1823:G:C8	2.40	0.56
22:B0:2001:C:H2'	22:B0:2002:G:C8	2.40	0.56
22:B0:2542:A:H4'	22:B0:2543:G:H8	1.68	0.56
22:B0:2553:G:H2'	22:B0:2554:U:H4'	1.87	0.56
22:B0:2563:U:H4'	34:BI:28:SER:OG	2.05	0.56
24:B2:7:MET:O	24:B2:10:ILE:HG22	2.06	0.56
26:BA:48:ILE:O	26:BA:49:THR:HG23	2.04	0.56
26:BA:140:VAL:O	26:BA:161:VAL:N	2.38	0.56
27:BB:125:TRP:O	27:BB:126:ASN:ND2	2.38	0.56
30:BE:85:LYS:HG3	30:BE:169:ARG:HH21	1.69	0.56
34:BI:11:ALA:HB3	34:BI:85:VAL:HG22	1.88	0.56
36:BK:18:ARG:NH1	36:BK:50:ARG:HG3	2.20	0.56
41:BQ:18:ARG:O	41:BQ:19:LEU:HB3	2.05	0.56
42:BR:65:GLY:H	42:BR:77:ARG:HH21	1.49	0.56
46:BW:33:ALA:O	46:BW:34:SER:HB2	2.06	0.56
1:AA:188:C:H2'	1:AA:189:A:O4'	2.05	0.56
1:AA:610:U:O2'	1:AA:611:C:H5'	2.06	0.56
1:AA:965:U:H1'	1:AA:969:A:C4	2.41	0.56
1:AA:1003:G:C6	1:AA:1004:A:H1'	2.41	0.56
1:AA:1385:G:N3	10:AI:128:LYS:CE	2.66	0.56
6:AE:80:LEU:HG	6:AE:95:MET:SD	2.45	0.56
17:AP:14:ARG:HB2	17:AP:14:ARG:HH11	1.67	0.56
20:AS:12:LEU:HD12	20:AS:13:HIS:N	2.20	0.56
22:B0:443:A:C6	28:BC:40:ARG:HG2	2.40	0.56
22:B0:793:A:O2'	22:B0:794:A:H5'	2.06	0.56
22:B0:918:A:O2'	23:B9:81:G:O3'	2.23	0.56
22:B0:1267:U:H3	22:B0:2014:A:N6	2.04	0.56
22:B0:1495:A:OP1	26:BA:140:VAL:HB	2.05	0.56
22:B0:1581:A:OP1	26:BA:73:ILE:HB	2.05	0.56
22:B0:2099:U:H2'	22:B0:2100:G:H8	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2895:C:N4	33:BH:13:ARG:NH1	2.53	0.56
22:B0:2897:U:C5	33:BH:14:ASP:HB2	2.41	0.56
24:B2:25:ALA:HB2	24:B2:223:VAL:HG11	1.87	0.56
27:BB:14:ILE:HG13	27:BB:188:LEU:HD13	1.86	0.56
28:BC:47:LYS:NZ	28:BC:47:LYS:HB3	2.21	0.56
28:BC:104:ALA:HA	28:BC:107:SER:OG	2.06	0.56
37:BL:99:LYS:O	48:BZ:52:LYS:HB2	2.05	0.56
42:BR:8:LEU:HD13	46:BW:29:ARG:HB2	1.87	0.56
42:BR:42:GLU:CD	42:BR:42:GLU:H	2.09	0.56
1:AA:820:U:OP1	1:AA:821:G:OP2	2.23	0.56
1:AA:927:G:H2'	1:AA:928:G:H8	1.70	0.56
1:AA:1099:G:N3	1:AA:1100:C:H1'	2.21	0.56
1:AA:1278:G:H5''	1:AA:1279:G:C5'	2.35	0.56
2:AW:74:C:H2'	2:AW:75:C:O4'	2.06	0.56
3:AB:170:ILE:N	3:AB:170:ILE:HD12	2.18	0.56
8:AG:154:ARG:HD3	8:AG:154:ARG:H	1.69	0.56
22:B0:94:A:H2'	22:B0:95:A:O4'	2.06	0.56
22:B0:239:C:H2'	22:B0:240:C:C6	2.40	0.56
22:B0:588:U:H5'	28:BC:43:THR:CB	2.36	0.56
22:B0:961:C:C2	22:B0:2497:A:O2'	2.57	0.56
22:B0:971:G:C2'	22:B0:972:A:H5'	2.36	0.56
22:B0:978:G:H2'	22:B0:979:A:C8	2.41	0.56
22:B0:1488:G:O2'	26:BA:201:LEU:HG	2.05	0.56
22:B0:2263:C:N4	22:B0:2277:G:N1	2.53	0.56
22:B0:2696:U:H2'	22:B0:2697:G:C8	2.41	0.56
24:B2:193:VAL:HA	24:B2:196:LYS:HE2	1.88	0.56
25:B5:27:GLU:HA	25:B5:35:ALA:HB2	1.87	0.56
25:B5:57:ILE:O	25:B5:117:VAL:HG13	2.05	0.56
27:BB:13:ARG:HD3	39:BN:10:GLU:CG	2.34	0.56
30:BE:88:LEU:H	30:BE:88:LEU:CD1	2.17	0.56
37:BL:53:THR:O	37:BL:54:LEU:HB2	2.06	0.56
39:BN:65:ASN:HD22	39:BN:66:GLY:N	2.04	0.56
39:BN:105:LYS:HA	39:BN:105:LYS:HZ2	1.68	0.56
45:BU:67:LYS:N	45:BU:67:LYS:HD3	2.21	0.56
47:BX:31:ILE:HD13	47:BX:31:ILE:N	2.20	0.56
1:AA:119:A:O2'	1:AA:120:A:OP2	2.24	0.56
1:AA:120:A:H2'	1:AA:122:G:N7	2.20	0.56
1:AA:562:U:H5''	1:AA:563:A:O5'	2.06	0.56
1:AA:580:C:H2'	1:AA:581:G:C8	2.41	0.56
1:AA:954:G:H1	1:AA:1226:C:H42	1.53	0.56
3:AB:44:LYS:O	3:AB:48:MET:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:119:ILE:HD11	4:AC:136:ALA:HB2	1.88	0.56
10:AI:50:PRO:CB	10:AI:83:THR:HG22	2.36	0.56
14:AM:1:ALA:HA	14:AM:2:ARG:NH2	2.20	0.56
22:B0:800:A:O2'	22:B0:801:G:C5'	2.52	0.56
22:B0:960:A:N6	22:B0:2250:G:HO2'	2.02	0.56
22:B0:982:C:O2'	22:B0:983:A:OP1	2.16	0.56
22:B0:1128:G:H1'	22:B0:2517:C:C5'	2.36	0.56
22:B0:1494:A:N3	22:B0:1494:A:C2'	2.69	0.56
22:B0:2156:G:C8	22:B0:2157:G:H3'	2.40	0.56
22:B0:2289:G:H22	22:B0:2344:U:H1'	1.69	0.56
22:B0:2811:G:H2'	22:B0:2812:G:H8	1.70	0.56
29:BD:7:TYR:HD1	29:BD:11:VAL:HG13	1.70	0.56
33:BH:39:LYS:HZ2	33:BH:40:HIS:HB2	1.71	0.56
33:BH:76:HIS:O	33:BH:77:HIS:HB3	2.05	0.56
33:BH:109:LEU:N	33:BH:109:LEU:HD22	2.21	0.56
36:BK:53:MET:HA	36:BK:116:ALA:HB1	1.88	0.56
40:BO:65:ASN:HA	40:BO:74:SER:HB2	1.87	0.56
42:BR:25:GLU:C	42:BR:26:LYS:HD2	2.26	0.56
42:BR:74:ILE:HD12	42:BR:76:ARG:HH22	1.69	0.56
44:BT:46:LYS:O	44:BT:50:MET:HG3	2.06	0.56
1:AA:979:C:H5''	20:AS:5:LYS:HG3	1.85	0.56
1:AA:1384:C:H2'	1:AA:1385:G:O4'	2.06	0.56
2:AW:18:G:C4'	2:AW:19:G:OP1	2.52	0.56
3:AB:53:LEU:HD12	3:AB:56:LEU:HD23	1.88	0.56
13:AL:88:ASP:O	13:AL:90:PRO:HD3	2.06	0.56
21:AT:54:GLN:HG3	21:AT:75:LYS:HE3	1.87	0.56
22:B0:307:G:H21	22:B0:330:A:H62	1.53	0.56
22:B0:921:C:H4'	22:B0:2269:G:C2	2.40	0.56
22:B0:1142:A:H5''	22:B0:1143:A:OP1	2.06	0.56
22:B0:1426:G:H1'	22:B0:1572:A:H61	1.69	0.56
22:B0:1426:G:C3'	22:B0:1428:C:H42	2.11	0.56
22:B0:1580:A:OP2	26:BA:68:ARG:CD	2.53	0.56
22:B0:1581:A:P	26:BA:73:ILE:HB	2.46	0.56
22:B0:2565:A:H2'	22:B0:2566:A:O4'	2.06	0.56
22:B0:2568:U:H2'	22:B0:2569:G:H8	1.71	0.56
22:B0:2879:A:HO2'	22:B0:2881:U:H5	1.52	0.56
24:B2:202:GLN:H	24:B2:202:GLN:HE21	1.48	0.56
26:BA:80:LEU:HD22	26:BA:90:ILE:O	2.06	0.56
28:BC:43:THR:C	28:BC:90:GLN:HA	2.26	0.56
28:BC:76:PRO:HG3	28:BC:82:GLY:O	2.05	0.56
1:AA:252:U:H2'	1:AA:253:A:H8	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:446:G:H2'	1:AA:447:G:O4'	2.06	0.56
1:AA:1117:A:H61	1:AA:1156:G:H22	1.54	0.56
4:AC:150:VAL:HG22	4:AC:199:VAL:HG22	1.86	0.56
10:AI:57:VAL:HG23	10:AI:58:GLU:N	2.14	0.56
22:B0:60:G:O6	22:B0:63:A:H2'	2.05	0.56
22:B0:301:G:H4'	22:B0:302:C:C5'	2.36	0.56
22:B0:490:C:N3	22:B0:492:A:N6	2.46	0.56
22:B0:555:U:H2'	22:B0:556:A:C8	2.41	0.56
22:B0:588:U:C5	28:BC:82:GLY:HA2	2.41	0.56
22:B0:1002:G:H1	22:B0:1153:C:N4	2.04	0.56
22:B0:1427:A:H62	26:BA:58:LYS:CD	2.19	0.56
22:B0:1844:C:H2'	22:B0:1845:G:C8	2.41	0.56
22:B0:2381:A:C2'	22:B0:2382:G:H5'	2.35	0.56
27:BB:106:LYS:HD2	27:BB:106:LYS:N	2.19	0.56
29:BD:129:MET:HG3	29:BD:153:ILE:H	1.71	0.56
33:BH:36:LEU:HD22	33:BH:36:LEU:N	2.18	0.56
33:BH:39:LYS:NZ	33:BH:40:HIS:HB2	2.20	0.56
33:BH:55:ILE:HA	33:BH:123:LYS:O	2.06	0.56
40:BO:10:ARG:NE	40:BO:10:ARG:N	2.54	0.56
41:BQ:10:ALA:HB1	41:BQ:11:ARG:NH2	2.21	0.56
42:BR:47:VAL:O	42:BR:48:GLN:HB3	2.06	0.56
1:AA:194:C:H2'	1:AA:195:A:H5''	1.86	0.56
1:AA:346:G:H3'	1:AA:346:G:N3	2.21	0.56
1:AA:449:G:O2'	1:AA:450:G:H3'	2.05	0.56
1:AA:889:A:C2	1:AA:907:A:H5''	2.41	0.56
1:AA:1385:G:C2	10:AI:128:LYS:HG3	2.41	0.56
5:AD:18:LEU:HD22	5:AD:63:ILE:HG12	1.88	0.56
9:AH:6:ILE:HG22	9:AH:76:ARG:HD2	1.88	0.56
22:B0:459:U:O2'	22:B0:460:A:H5'	2.05	0.56
22:B0:661:A:H1'	28:BC:96:VAL:O	2.05	0.56
22:B0:704:G:H1'	22:B0:727:A:N6	2.21	0.56
22:B0:1080:A:O2'	22:B0:1081:U:H5'	2.06	0.56
22:B0:1110:G:H5''	22:B0:1111:A:OP1	2.05	0.56
22:B0:1197:G:H21	40:BO:8:ILE:HD13	1.70	0.56
22:B0:1492:G:C2'	26:BA:152:GLN:HE21	2.18	0.56
22:B0:1869:G:H1'	22:B0:1872:A:N6	2.21	0.56
22:B0:2504:U:H1'	22:B0:2572:A:C2	2.33	0.56
22:B0:2555:U:H2'	22:B0:2556:C:C6	2.41	0.56
22:B0:2680:U:H2'	22:B0:2681:C:C5'	2.27	0.56
26:BA:163:ILE:HA	26:BA:173:LEU:CG	2.27	0.56
28:BC:89:PRO:O	28:BC:90:GLN:CG	2.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BJ:33:ARG:NE	35:BJ:33:ARG:N	2.54	0.56
39:BN:29:VAL:HG12	39:BN:45:VAL:HG12	1.87	0.56
42:BR:55:VAL:HA	42:BR:56:GLU:N	2.20	0.56
45:BU:35:ILE:HG23	45:BU:36:ILE:N	2.21	0.56
45:BU:43:LYS:H	45:BU:43:LYS:HE2	1.71	0.56
45:BU:58:LEU:HB2	45:BU:81:ILE:HA	1.88	0.56
1:AA:38:G:O2'	1:AA:39:G:H5''	2.06	0.55
1:AA:176:C:H2'	1:AA:177:G:C8	2.36	0.55
1:AA:197:A:N6	1:AA:221:C:C4'	2.70	0.55
1:AA:546:A:H5'	1:AA:548:G:HO2'	1.70	0.55
1:AA:718:A:O4'	12:AK:117:HIS:CA	2.43	0.55
1:AA:721:G:H4'	1:AA:722:G:H5''	1.88	0.55
1:AA:940:C:H2'	1:AA:941:G:C8	2.41	0.55
2:AU:18:G:C4'	2:AU:19:G:OP1	2.51	0.55
14:AM:2:ARG:N	14:AM:2:ARG:NE	2.53	0.55
22:B0:99:U:H4'	22:B0:100:U:OP2	2.06	0.55
22:B0:320:A:H4'	22:B0:322:A:N7	2.20	0.55
22:B0:493:G:H21	41:BQ:7:HIS:CA	2.19	0.55
22:B0:669:G:H3'	22:B0:670:A:C2	2.42	0.55
22:B0:784:G:O2'	22:B0:785:G:H5''	2.06	0.55
22:B0:1339:G:OP1	42:BR:19:LYS:HE2	2.06	0.55
22:B0:2379:G:H2'	22:B0:2380:C:C6	2.42	0.55
22:B0:2855:C:C2'	22:B0:2856:A:H5''	2.35	0.55
27:BB:28:GLU:HG2	27:BB:186:LEU:HD22	1.88	0.55
33:BH:33:ALA:CB	33:BH:105:VAL:HG23	2.31	0.55
39:BN:26:GLU:N	39:BN:88:ARG:HG3	2.17	0.55
40:BO:16:ILE:HD12	40:BO:19:GLN:NE2	2.22	0.55
40:BO:33:VAL:HA	40:BO:36:GLN:OE1	2.06	0.55
41:BQ:29:VAL:HG21	41:BQ:55:ILE:HG21	1.88	0.55
41:BQ:53:SER:O	41:BQ:56:ALA:HB3	2.06	0.55
42:BR:47:VAL:C	42:BR:49:LYS:H	2.09	0.55
1:AA:1004:A:H2'	1:AA:1005:A:H5'	1.87	0.55
1:AA:1015:G:O2'	1:AA:1218:C:H4'	2.05	0.55
1:AA:1100:C:H2'	1:AA:1101:A:OP1	2.06	0.55
2:AW:19:G:H5'	2:AW:60:C:H42	1.72	0.55
3:AB:219:THR:HA	3:AB:222:GLU:HG2	1.87	0.55
5:AD:148:ALA:O	5:AD:151:GLN:HG2	2.06	0.55
5:AD:197:HIS:O	5:AD:201:GLU:HG3	2.06	0.55
8:AG:24:LYS:HA	8:AG:27:ASN:HD22	1.70	0.55
8:AG:25:PHE:CD1	8:AG:28:ILE:HD11	2.40	0.55
10:AI:70:GLY:O	10:AI:74:GLN:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AJ:37:ARG:NH1	11:AJ:37:ARG:HB3	2.21	0.55
22:B0:669:G:H2'	28:BC:66:GLY:HA2	1.89	0.55
22:B0:990:A:O2'	22:B0:991:C:OP1	2.22	0.55
22:B0:1181:U:H2'	22:B0:1182:G:H8	1.71	0.55
22:B0:1204:A:N6	22:B0:1241:A:H61	2.04	0.55
22:B0:1491:A:O5'	26:BA:174:ARG:O	2.25	0.55
22:B0:1579:A:H8	26:BA:65:ASP:HB3	1.71	0.55
22:B0:2292:U:H2'	22:B0:2293:G:C8	2.40	0.55
22:B0:2336:A:O2'	22:B0:2337:G:OP1	2.21	0.55
22:B0:2690:U:H1'	22:B0:2873:A:N6	2.21	0.55
24:B2:208:ILE:O	24:B2:208:ILE:HG12	2.06	0.55
27:BB:40:LEU:HB2	27:BB:74:GLU:HB3	1.88	0.55
28:BC:90:GLN:HB3	35:BJ:27:LEU:O	2.06	0.55
31:BF:143:ILE:HD13	31:BF:143:ILE:C	2.26	0.55
32:BG:54:ILE:HD13	32:BG:54:ILE:C	2.26	0.55
34:BI:22:ILE:HG12	34:BI:41:ILE:HA	1.88	0.55
44:BT:68:LYS:O	44:BT:68:LYS:HD2	2.07	0.55
1:AA:571:U:H4'	1:AA:819:A:N6	2.22	0.55
3:AB:72:LYS:HG2	3:AB:74:ALA:H	1.71	0.55
5:AD:58:GLN:O	5:AD:62:ARG:HG3	2.06	0.55
7:AF:42:TRP:HB2	7:AF:59:TYR:HB2	1.86	0.55
12:AK:123:PRO:HD2	12:AK:126:ARG:HD2	1.89	0.55
17:AP:20:VAL:HG13	17:AP:34:GLU:O	2.06	0.55
20:AS:35:ARG:HD3	20:AS:71:GLY:HA3	1.88	0.55
22:B0:516:C:H4'	22:B0:1262:A:C4'	2.37	0.55
22:B0:961:C:OP2	22:B0:2496:C:H3'	2.06	0.55
22:B0:1489:U:C6	26:BA:200:MET:SD	2.99	0.55
22:B0:1817:G:O2'	22:B0:1818:U:H5'	2.06	0.55
22:B0:2679:A:H2'	22:B0:2680:U:O4'	2.06	0.55
25:B3:69:ILE:HG22	25:B3:73:ARG:HD2	1.88	0.55
26:BA:101:ARG:HH11	26:BA:101:ARG:CB	2.19	0.55
26:BA:138:SER:O	26:BA:140:VAL:HG13	2.06	0.55
27:BB:131:ASP:O	27:BB:134:HIS:HB2	2.06	0.55
29:BD:94:ARG:NE	29:BD:94:ARG:HA	2.21	0.55
29:BD:165:GLY:C	29:BD:167:ALA:H	2.09	0.55
32:BG:77:VAL:C	32:BG:79:LEU:H	2.09	0.55
32:BG:78:LEU:O	32:BG:82:ALA:HB2	2.05	0.55
34:BI:21:CYS:HA	34:BI:41:ILE:HG22	1.89	0.55
37:BL:21:PHE:O	37:BL:25:ALA:HB2	2.06	0.55
37:BL:64:ARG:HA	37:BL:64:ARG:NE	2.21	0.55
1:AA:344:A:H5''	1:AA:345:C:C5	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:404:G:H5'	1:AA:546:A:O3'	2.05	0.55
1:AA:1279:G:H1'	1:AA:1282:C:N4	2.21	0.55
5:AD:148:ALA:HB1	5:AD:151:GLN:NE2	2.16	0.55
6:AE:92:ARG:HD2	6:AE:127:TYR:HB2	1.89	0.55
7:AF:47:LEU:HD21	7:AF:57:ALA:HB3	1.87	0.55
9:AH:79:ARG:HB3	9:AH:80:PRO:HD2	1.88	0.55
11:AJ:6:ILE:HD12	11:AJ:6:ILE:N	2.21	0.55
19:AR:58:ILE:O	19:AR:62:ARG:HG3	2.06	0.55
21:AT:8:LYS:HG3	21:AT:12:GLN:NE2	2.18	0.55
22:B0:238:C:H2'	22:B0:239:C:C6	2.42	0.55
22:B0:859:G:O4'	22:B0:2268:A:H1'	2.06	0.55
22:B0:1131:G:H1'	33:BH:81:ILE:CD1	2.31	0.55
22:B0:1217:U:H2'	22:B0:1218:G:C8	2.42	0.55
22:B0:2013:A:OP1	41:BQ:96:ILE:HG23	2.07	0.55
22:B0:2378:A:H2'	22:B0:2379:G:H5'	1.87	0.55
22:B0:2498:C:O2	22:B0:2498:C:C2'	2.48	0.55
22:B0:2899:A:N1	33:BH:137:PRO:HD2	2.22	0.55
25:B5:14:MET:HB3	25:B5:18:ASP:HB2	1.89	0.55
27:BB:121:THR:HG21	27:BB:143:PRO:HD3	1.89	0.55
28:BC:178:VAL:HG23	35:BJ:18:ARG:NH2	2.21	0.55
43:BS:4:ILE:H	43:BS:4:ILE:CD1	2.16	0.55
1:AA:517:G:H4'	1:AA:519:C:N1	2.20	0.55
1:AA:1182:G:O2'	1:AA:1183:U:H5'	2.05	0.55
1:AA:1405:G:H21	1:AA:1518:A:H1'	1.71	0.55
2:AV:18:G:H1	2:AV:55:U:H6	1.54	0.55
3:AB:26:MET:SD	3:AB:192:PRO:HD3	2.47	0.55
3:AB:170:ILE:HD12	3:AB:170:ILE:H	1.71	0.55
5:AD:166:LYS:HD3	5:AD:166:LYS:N	2.21	0.55
12:AK:53:GLY:HA2	12:AK:56:LYS:HD3	1.88	0.55
22:B0:493:G:O5'	41:BQ:9:HIS:O	2.23	0.55
22:B0:534:U:H3	22:B0:559:G:N2	1.96	0.55
22:B0:787:C:H5''	22:B0:788:A:H5'	1.89	0.55
22:B0:801:G:H22	28:BC:72:SER:HB3	1.70	0.55
22:B0:962:G:O4'	22:B0:2497:A:H5'	2.07	0.55
22:B0:1129:A:N3	22:B0:2516:A:O2'	2.40	0.55
22:B0:1198:U:H2'	22:B0:1199:U:C6	2.42	0.55
22:B0:1553:A:H2'	22:B0:1555:G:H5'	1.88	0.55
22:B0:2110:G:N7	22:B0:2182:U:H1'	2.22	0.55
22:B0:2232:C:H2'	22:B0:2233:U:C6	2.42	0.55
24:B2:5:LYS:O	24:B2:8:ARG:HB3	2.06	0.55
25:B5:107:LYS:O	25:B5:111:GLU:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:143:VAL:O	26:BA:151:GLY:HA2	2.07	0.55
28:BC:4:VAL:CG2	28:BC:13:THR:HA	2.35	0.55
28:BC:111:GLU:O	28:BC:117:ARG:HG3	2.06	0.55
28:BC:152:GLU:OE2	28:BC:186:VAL:HG21	2.06	0.55
30:BE:16:VAL:HG12	30:BE:25:ILE:HG12	1.88	0.55
33:BH:14:ASP:O	33:BH:15:TRP:HB3	2.07	0.55
34:BI:77:ILE:HD12	39:BN:72:VAL:CG1	2.37	0.55
36:BK:5:LYS:HA	36:BK:71:LYS:HE2	1.88	0.55
37:BL:99:LYS:CA	37:BL:111:ALA:HB2	2.32	0.55
39:BN:96:LEU:HD13	39:BN:96:LEU:N	2.15	0.55
41:BQ:69:LEU:O	41:BQ:70:LYS:HD3	2.06	0.55
45:BU:29:SER:OG	45:BU:61:LYS:HG3	2.07	0.55
1:AA:109:A:H5'	1:AA:110:C:OP2	2.07	0.55
1:AA:840:C:H5''	1:AA:841:U:OP1	2.07	0.55
1:AA:1152:A:H2'	1:AA:1153:G:C8	2.41	0.55
1:AA:1276:G:H2'	1:AA:1277:C:C6	2.42	0.55
2:AU:75:C:P	22:B0:2556:C:H3'	2.47	0.55
13:AL:52:CYS:SG	13:AL:66:ILE:HD11	2.45	0.55
22:B0:610:C:C2	22:B0:611:C:N4	2.74	0.55
22:B0:666:A:P	35:BJ:48:ARG:HD3	2.46	0.55
22:B0:807:U:C5'	22:B0:2445:G:H4'	2.36	0.55
22:B0:961:C:C5	22:B0:2497:A:N3	2.75	0.55
22:B0:1010:A:H5'	40:BO:62:ALA:CB	2.30	0.55
22:B0:1310:G:C2'	22:B0:1311:G:H5'	2.37	0.55
22:B0:1579:A:H5'	22:B0:1580:A:OP2	2.06	0.55
22:B0:2195:U:H2'	22:B0:2196:C:C6	2.42	0.55
22:B0:2228:G:H2'	22:B0:2229:U:O4'	2.06	0.55
22:B0:2898:G:OP2	33:BH:15:TRP:CZ3	2.59	0.55
26:BA:241:LYS:HE2	26:BA:255:LYS:NZ	2.22	0.55
28:BC:88:ARG:HB3	35:BJ:29:LYS:C	2.27	0.55
30:BE:101:VAL:HG22	30:BE:113:ASP:HB3	1.88	0.55
31:BF:123:ARG:NH1	31:BF:123:ARG:HB3	2.22	0.55
39:BN:2:ASN:CB	39:BN:5:LYS:HZ3	2.19	0.55
41:BQ:74:ILE:HD13	41:BQ:74:ILE:H	1.70	0.55
42:BR:66:LYS:HG3	42:BR:67:VAL:H	1.71	0.55
1:AA:722:G:H1	1:AA:733:G:H1	1.54	0.55
1:AA:1133:G:H2'	1:AA:1134:G:H8	1.71	0.55
1:AA:1447:A:H2	1:AA:1459:G:H22	1.48	0.55
2:AV:18:G:C4'	2:AV:19:G:OP1	2.49	0.55
5:AD:145:ARG:O	5:AD:149:LYS:HG2	2.07	0.55
18:AQ:48:GLU:HG3	18:AQ:49:ASN:ND2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AS:20:LYS:O	20:AS:23:GLU:HG3	2.07	0.55
22:B0:433:C:H2'	22:B0:434:U:O4'	2.07	0.55
22:B0:627:A:O2'	22:B0:628:G:O4'	2.23	0.55
22:B0:675:A:H62	28:BC:61:ARG:CZ	2.20	0.55
22:B0:1406:U:H2'	22:B0:1407:G:C8	2.42	0.55
22:B0:1578:U:OP1	26:BA:63:ILE:HA	2.06	0.55
22:B0:1590:C:H2'	22:B0:1591:A:C8	2.42	0.55
22:B0:2266:A:H5'	22:B0:2267:A:C8	2.41	0.55
23:B9:58:A:H3'	23:B9:58:A:N3	2.22	0.55
24:B2:77:PHE:HZ	24:B2:103:ILE:HD11	1.71	0.55
25:B3:107:LYS:O	25:B3:111:GLU:HG3	2.07	0.55
25:B5:26:MET:HE3	25:B5:38:VAL:HG11	1.89	0.55
26:BA:115:ILE:HD13	26:BA:115:ILE:N	2.20	0.55
26:BA:191:LEU:HD23	26:BA:191:LEU:C	2.27	0.55
36:BK:63:ILE:HD13	36:BK:63:ILE:C	2.27	0.55
39:BN:9:GLN:H	39:BN:9:GLN:HE21	1.52	0.55
39:BN:23:ASP:OD1	39:BN:91:VAL:HG13	2.06	0.55
44:BT:30:ILE:N	44:BT:30:ILE:HD12	2.22	0.55
1:AA:38:G:C8	1:AA:547:A:N6	2.75	0.55
1:AA:752:G:O2'	1:AA:754:C:H5	1.90	0.55
1:AA:979:C:H5'	20:AS:5:LYS:HZ3	1.70	0.55
1:AA:1060:U:H2'	1:AA:1061:G:H8	1.72	0.55
1:AA:1298:U:H4'	1:AA:1299:A:C2	2.42	0.55
1:AA:1385:G:H2'	10:AI:128:LYS:HD2	1.88	0.55
7:AF:14:GLN:HB3	7:AF:18:VAL:HG22	1.87	0.55
22:B0:554:U:H2'	22:B0:555:U:C6	2.42	0.55
22:B0:1008:A:H5''	22:B0:1009:A:OP1	2.07	0.55
22:B0:1492:G:C1'	26:BA:152:GLN:HE21	2.19	0.55
22:B0:1606:C:H4'	22:B0:1607:C:C5	2.42	0.55
22:B0:2096:C:H2'	22:B0:2097:A:C8	2.40	0.55
22:B0:2137:U:O2	22:B0:2137:U:C2'	2.55	0.55
22:B0:2289:G:N2	22:B0:2344:U:H1'	2.22	0.55
22:B0:2508:G:N1	22:B0:2582:G:N1	2.54	0.55
22:B0:2677:G:N3	27:BB:125:TRP:CE3	2.72	0.55
24:B2:8:ARG:HA	24:B2:11:ARG:HD3	1.89	0.55
25:B5:90:ALA:N	25:B5:91:PRO:HD3	2.22	0.55
26:BA:101:ARG:NH1	26:BA:101:ARG:CB	2.70	0.55
26:BA:167:ASP:HB3	26:BA:170:TYR:O	2.07	0.55
28:BC:98:LYS:HB3	28:BC:99:LYS:HD2	1.88	0.55
28:BC:109:LEU:HD21	28:BC:196:VAL:HG12	1.88	0.55
29:BD:140:ILE:HD11	29:BD:145:VAL:HG21	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:162:ARG:HA	30:BE:162:ARG:HE	1.71	0.55
35:BJ:54:GLN:HG2	35:BJ:55:MET:H	1.71	0.55
35:BJ:125:LEU:HA	35:BJ:143:GLU:OE2	2.07	0.55
40:BO:30:VAL:HG12	40:BO:31:TYR:N	2.21	0.55
42:BR:11:LEU:HB2	42:BR:32:LEU:HD22	1.89	0.55
45:BU:65:LYS:HZ3	45:BU:65:LYS:HB2	1.71	0.55
1:AA:292:G:H1'	1:AA:608:A:N6	2.20	0.55
1:AA:962:C:H2'	1:AA:963:G:C8	2.42	0.55
1:AA:1085:U:O2'	1:AA:1086:U:OP1	2.22	0.55
1:AA:1344:C:O3'	10:AI:119:LYS:HE3	2.06	0.55
1:AA:1498:U:O2'	1:AA:1499:A:C8	2.58	0.55
2:AU:75:C:OP1	22:B0:2556:C:H3'	2.07	0.55
2:AW:3:G:H2'	2:AW:4:G:H8	1.71	0.55
3:AB:65:LYS:HB2	3:AB:89:PHE:HE1	1.72	0.55
22:B0:856:G:H2'	22:B0:857:G:C8	2.42	0.55
22:B0:898:C:H2'	22:B0:899:A:C8	2.41	0.55
22:B0:1060:U:H1'	22:B0:1062:G:C5'	2.34	0.55
22:B0:1249:U:H2'	22:B0:1250:G:H8	1.71	0.55
22:B0:1368:G:H8	22:B0:1368:G:OP2	1.89	0.55
22:B0:2192:U:H2'	22:B0:2193:G:C8	2.39	0.55
25:B5:51:LYS:N	25:B5:51:LYS:HD2	2.22	0.55
28:BC:35:TYR:CD1	35:BJ:19:LEU:HB2	2.42	0.55
29:BD:120:SER:HB3	29:BD:128:SER:HB2	1.89	0.55
32:BG:122:GLU:O	32:BG:126:ARG:HG2	2.07	0.55
35:BJ:106:GLU:HG2	35:BJ:107:PHE:CD1	2.42	0.55
39:BN:25:VAL:CG1	39:BN:88:ARG:HE	2.20	0.55
41:BQ:10:ALA:CB	41:BQ:11:ARG:HH21	2.19	0.55
41:BQ:18:ARG:CG	41:BQ:19:LEU:N	2.69	0.55
41:BQ:22:ASP:C	41:BQ:24:ILE:H	2.11	0.55
42:BR:67:VAL:HG13	42:BR:76:ARG:N	2.21	0.55
49:B1:29:LYS:HD2	49:B1:29:LYS:N	2.21	0.55
1:AA:430:A:O2'	1:AA:431:A:H3'	2.07	0.55
1:AA:1148:U:H5''	10:AI:10:ARG:HE	1.71	0.55
2:AW:52:U:H2'	2:AW:53:G:H8	1.72	0.55
3:AB:33:ALA:HA	3:AB:38:HIS:HA	1.89	0.55
7:AF:60:VAL:C	7:AF:61:LEU:HD12	2.27	0.55
10:AI:78:ILE:O	10:AI:82:ILE:HG13	2.06	0.55
12:AK:122:PRO:O	12:AK:127:ARG:HG3	2.07	0.55
14:AM:44:ILE:HD12	14:AM:45:SER:N	2.22	0.55
19:AR:27:THR:HA	19:AR:30:ASN:HD22	1.72	0.55
22:B0:500:G:C2'	22:B0:501:A:H5''	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:802:A:N6	28:BC:61:ARG:HH11	2.04	0.55
22:B0:1229:C:H2'	22:B0:1230:A:H8	1.70	0.55
22:B0:1426:G:H2'	22:B0:1427:A:H5''	1.89	0.55
22:B0:1655:A:C2	22:B0:2049:G:H5''	2.41	0.55
22:B0:2575:C:H2'	22:B0:2578:G:O6	2.07	0.55
25:B3:59:LYS:HD2	25:B3:116:GLU:HG2	1.88	0.55
26:BA:48:ILE:O	26:BA:48:ILE:HD12	2.07	0.55
26:BA:175:LEU:CD1	26:BA:176:ARG:N	2.67	0.55
29:BD:52:ALA:C	29:BD:54:ALA:H	2.09	0.55
35:BJ:41:ARG:HA	35:BJ:41:ARG:NE	2.21	0.55
37:BL:33:ILE:C	37:BL:34:ILE:HD12	2.27	0.55
37:BL:48:VAL:O	37:BL:48:VAL:HG13	2.05	0.55
39:BN:2:ASN:O	39:BN:6:GLN:HB2	2.07	0.55
39:BN:15:ASP:O	39:BN:16:VAL:C	2.46	0.55
40:BO:43:GLN:C	40:BO:45:ALA:N	2.60	0.55
43:BS:33:VAL:O	43:BS:64:ILE:HB	2.07	0.55
47:BX:6:ILE:O	47:BX:34:THR:HA	2.07	0.55
1:AA:449:G:HO2'	1:AA:450:G:P	2.27	0.54
1:AA:872:A:H5''	1:AA:873:A:OP1	2.08	0.54
1:AA:1360:A:H61	20:AS:6:LYS:HE3	1.71	0.54
2:AU:19:G:H4'	2:AU:20:G:OP1	2.07	0.54
16:AO:81:ILE:N	16:AO:81:ILE:HD12	2.22	0.54
17:AP:21:VAL:O	17:AP:33:ILE:HB	2.06	0.54
20:AS:51:HIS:CD2	20:AS:53:GLY:H	2.24	0.54
22:B0:586:A:H4'	28:BC:78:TRP:CA	2.33	0.54
22:B0:828:U:H4'	22:B0:831:G:C6	2.42	0.54
22:B0:852:U:O5'	22:B0:852:U:H6	1.90	0.54
22:B0:1139:G:O2'	22:B0:1140:C:H5'	2.06	0.54
22:B0:1299:G:N2	22:B0:1639:C:H41	2.04	0.54
22:B0:1487:G:N2	26:BA:199:HIS:HB2	2.23	0.54
22:B0:1939:U:H5''	22:B0:1940:U:OP2	2.06	0.54
22:B0:2108:A:N3	22:B0:2109:U:H1'	2.21	0.54
22:B0:2231:U:H2'	22:B0:2232:C:C6	2.42	0.54
22:B0:2647:U:H2'	22:B0:2648:G:H8	1.72	0.54
28:BC:3:LEU:HD13	28:BC:18:THR:HB	1.89	0.54
28:BC:49:ARG:HG3	28:BC:50:ALA:N	2.13	0.54
29:BD:11:VAL:HA	29:BD:14:LYS:HE2	1.89	0.54
30:BE:32:LEU:HD23	30:BE:74:MET:HG2	1.88	0.54
35:BJ:39:LYS:HD2	35:BJ:41:ARG:HE	1.72	0.54
35:BJ:100:ILE:HG22	35:BJ:100:ILE:O	2.07	0.54
39:BN:7:LEU:HD22	39:BN:7:LEU:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:65:ASN:HD22	39:BN:66:GLY:H	1.55	0.54
45:BU:65:LYS:HB2	45:BU:65:LYS:NZ	2.22	0.54
49:B1:6:GLU:HB3	49:B1:26:LYS:HB2	1.90	0.54
1:AA:247:G:H2'	1:AA:248:C:C6	2.41	0.54
1:AA:496:A:HO2'	1:AA:497:G:H3'	1.71	0.54
1:AA:1065:U:H1'	1:AA:1066:C:C5	2.41	0.54
1:AA:1115:U:H3	1:AA:1185:G:H22	1.55	0.54
1:AA:1145:A:O2'	1:AA:1146:A:H8	1.91	0.54
1:AA:1318:A:H5''	20:AS:41:PRO:CD	2.36	0.54
2:AU:56:C:H2'	2:AU:57:G:C8	2.43	0.54
3:AB:80:LYS:O	3:AB:84:LEU:HG	2.07	0.54
6:AE:143:LEU:HA	6:AE:146:MET:SD	2.47	0.54
13:AL:110:LYS:HA	13:AL:113:ARG:HH21	1.71	0.54
16:AO:39:GLN:HA	16:AO:42:PHE:HD2	1.72	0.54
21:AT:68:LYS:HD3	21:AT:68:LYS:N	2.16	0.54
22:B0:811:U:O2'	22:B0:812:C:OP1	2.21	0.54
22:B0:839:U:H2'	22:B0:840:C:C6	2.42	0.54
22:B0:1732:C:OP2	22:B0:1741:C:H5''	2.07	0.54
22:B0:2122:U:O2	22:B0:2122:U:H2'	2.07	0.54
22:B0:2848:G:H1'	22:B0:2868:A:N6	2.22	0.54
24:B2:175:GLY:C	24:B2:176:LYS:HD2	2.27	0.54
25:B3:50:GLU:HB3	25:B5:15:SER:CA	2.38	0.54
27:BB:13:ARG:HH11	39:BN:10:GLU:HB3	1.72	0.54
27:BB:202:ILE:C	27:BB:202:ILE:HD12	2.28	0.54
28:BC:96:VAL:HG11	35:BJ:23:ILE:HD11	1.89	0.54
28:BC:155:GLU:HG3	28:BC:156:ASN:H	1.71	0.54
29:BD:43:ILE:H	29:BD:43:ILE:CD1	2.20	0.54
32:BG:33:ASN:ND2	32:BG:34:ILE:N	2.55	0.54
33:BH:69:ARG:NH1	33:BH:69:ARG:HB3	2.22	0.54
33:BH:85:LYS:HD3	33:BH:85:LYS:N	2.22	0.54
43:BS:6:ARG:HD2	43:BS:6:ARG:O	2.07	0.54
1:AA:392:C:H2'	1:AA:393:A:H8	1.72	0.54
1:AA:790:A:H2'	1:AA:791:G:H8	1.71	0.54
2:AU:52:U:H2'	2:AU:53:G:H8	1.73	0.54
4:AC:35:ASP:O	4:AC:39:ARG:HG3	2.08	0.54
9:AH:111:THR:HG23	9:AH:114:ALA:H	1.72	0.54
12:AK:122:PRO:HG2	12:AK:127:ARG:CG	2.37	0.54
18:AQ:59:GLU:C	18:AQ:60:ILE:HD12	2.27	0.54
22:B0:265:A:O2'	22:B0:266:G:O5'	2.23	0.54
22:B0:661:A:OP2	35:BJ:27:LEU:HB3	2.08	0.54
22:B0:1042:G:H2'	22:B0:1043:C:C6	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1498:C:H6	22:B0:1498:C:O5'	1.89	0.54
22:B0:1921:G:H2'	22:B0:1922:G:C8	2.42	0.54
22:B0:2013:A:OP1	41:BQ:96:ILE:HD12	2.07	0.54
25:B5:46:GLU:HG2	25:B5:53:GLU:CG	2.36	0.54
29:BD:2:LYS:N	29:BD:2:LYS:HD3	2.22	0.54
39:BN:28:LYS:NZ	39:BN:86:LYS:HB3	2.21	0.54
42:BR:48:GLN:HB2	42:BR:55:VAL:HG22	1.90	0.54
43:BS:8:ASP:OD1	43:BS:84:PHE:HA	2.06	0.54
46:BW:40:SER:HA	46:BW:43:LEU:CG	2.36	0.54
1:AA:115:G:O2'	1:AA:116:A:C8	2.58	0.54
1:AA:483:C:H5''	1:AA:484:G:C4'	2.38	0.54
1:AA:1306:A:H1'	1:AA:1332:A:N1	2.22	0.54
1:AA:1344:C:OP1	10:AI:118:ARG:HD2	2.08	0.54
1:AA:1479:C:H2'	1:AA:1480:A:C8	2.41	0.54
4:AC:36:PHE:O	4:AC:40:GLN:HG3	2.08	0.54
6:AE:51:LYS:HD2	6:AE:51:LYS:N	2.23	0.54
10:AI:67:LYS:HD3	10:AI:67:LYS:N	2.22	0.54
12:AK:45:THR:HG22	12:AK:46:ALA:N	2.23	0.54
16:AO:56:LEU:CD1	16:AO:57:ARG:HD3	2.36	0.54
21:AT:23:ARG:HB3	21:AT:60:GLN:NE2	2.14	0.54
22:B0:18:U:H5''	40:BO:25:GLY:O	2.07	0.54
22:B0:495:G:N2	41:BQ:57:ASN:HD22	2.06	0.54
22:B0:827:U:H5'	22:B0:828:U:C6	2.42	0.54
22:B0:961:C:OP1	22:B0:2496:C:C2	2.60	0.54
22:B0:1125:G:H5''	22:B0:1126:A:OP2	2.07	0.54
22:B0:1203:U:OP2	35:BJ:11:GLY:N	2.40	0.54
22:B0:1388:G:H2'	22:B0:1389:G:C8	2.42	0.54
22:B0:1493:A:C8	26:BA:183:VAL:HG13	2.42	0.54
22:B0:1532:U:H2'	22:B0:1533:C:C6	2.43	0.54
22:B0:1698:A:H1'	22:B0:1700:A:OP2	2.07	0.54
22:B0:1761:C:C5	22:B0:1762:A:C4	2.96	0.54
22:B0:1803:A:N6	22:B0:1814:G:H21	2.06	0.54
22:B0:2121:G:O3'	22:B0:2122:U:H3'	2.07	0.54
22:B0:2558:C:H2'	22:B0:2558:C:O2	2.08	0.54
22:B0:2819:G:O2'	22:B0:2820:A:OP1	2.25	0.54
25:B3:58:LEU:CD1	25:B3:115:ALA:HB1	2.38	0.54
26:BA:146:LYS:CG	26:BA:147:PRO:HD2	2.38	0.54
27:BB:83:ARG:HH11	27:BB:83:ARG:HG3	1.73	0.54
29:BD:127:TYR:HH	29:BD:176:PHE:HE2	1.55	0.54
35:BJ:36:LYS:N	35:BJ:36:LYS:HD2	2.22	0.54
37:BL:30:ARG:HH12	37:BL:75:ILE:HD12	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:63:VAL:HG22	42:BR:64:LYS:N	2.23	0.54
1:AA:429:U:P	1:AA:430:A:H5''	2.48	0.54
1:AA:450:G:H4'	17:AP:15:PRO:CG	2.35	0.54
1:AA:975:A:C4'	1:AA:976:G:H5''	2.37	0.54
1:AA:1486:G:H2'	1:AA:1487:G:C8	2.41	0.54
1:AA:1528:U:O3'	1:AA:1530:G:OP2	2.26	0.54
2:AU:73:A:H4'	2:AV:76:A:H5''	1.88	0.54
2:AW:60:C:H5''	2:AW:61:C:OP2	2.08	0.54
4:AC:126:ARG:NH1	4:AC:126:ARG:HB3	2.23	0.54
16:AO:23:SER:HB2	16:AO:26:VAL:HG23	1.90	0.54
18:AQ:19:SER:C	18:AQ:20:ILE:HD12	2.27	0.54
22:B0:129:C:C4	22:B0:130:C:N4	2.75	0.54
22:B0:479:A:H2'	22:B0:480:A:C5'	2.38	0.54
22:B0:493:G:C8	41:BQ:10:ALA:HB2	2.42	0.54
22:B0:527:C:N4	22:B0:2781:A:N6	2.56	0.54
22:B0:800:A:C2	28:BC:59:PRO:HA	2.42	0.54
22:B0:826:U:H1'	35:BJ:55:MET:HE3	1.88	0.54
22:B0:1157:G:H2'	22:B0:1157:G:N3	2.22	0.54
22:B0:1265:A:O2'	22:B0:1266:G:C4'	2.56	0.54
22:B0:1272:A:O2'	22:B0:1273:U:H5''	2.06	0.54
22:B0:1452:C:H2'	22:B0:1453:U:O4'	2.07	0.54
22:B0:1969:A:O2'	22:B0:1972:G:H1'	2.08	0.54
22:B0:2040:G:H2'	22:B0:2041:U:O4'	2.07	0.54
22:B0:2327:A:H2'	45:BU:10:ARG:NE	2.23	0.54
22:B0:2508:G:O2'	22:B0:2555:U:H4'	2.08	0.54
24:B2:46:ASN:HA	24:B2:169:ILE:CG2	2.37	0.54
24:B2:208:ILE:H	24:B2:208:ILE:CD1	2.11	0.54
25:B3:17:MET:HB3	25:B3:53:GLU:HG2	1.89	0.54
26:BA:163:ILE:HD12	26:BA:163:ILE:H	1.72	0.54
26:BA:175:LEU:CD2	26:BA:179:GLU:HB3	2.37	0.54
29:BD:33:ILE:HG13	29:BD:91:ARG:HH21	1.71	0.54
35:BJ:55:MET:N	35:BJ:56:PRO:HA	2.15	0.54
37:BL:30:ARG:HG3	37:BL:31:HIS:ND1	2.22	0.54
37:BL:84:GLY:HA2	37:BL:86:ARG:H	1.72	0.54
38:BM:15:ARG:HG2	38:BM:18:LEU:HB2	1.89	0.54
42:BR:72:GLN:HA	42:BR:72:GLN:NE2	2.23	0.54
45:BU:68:PHE:O	45:BU:73:PRO:HB3	2.07	0.54
49:B1:4:ILE:HG23	49:B1:4:ILE:O	2.06	0.54
1:AA:279:A:H5''	1:AA:280:C:O5'	2.08	0.54
1:AA:404:G:C8	1:AA:546:A:O2'	2.56	0.54
1:AA:749:A:H2'	1:AA:749:A:N3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1322:C:C5'	1:AA:1323:G:OP1	2.53	0.54
1:AA:1455:G:H2'	1:AA:1459:G:C8	2.40	0.54
2:AU:9:A:O2'	2:AU:45:G:H2'	2.08	0.54
2:AV:70:C:H2'	2:AV:71:G:H8	1.72	0.54
3:AB:185:ILE:HG12	3:AB:185:ILE:O	2.07	0.54
4:AC:134:LYS:HA	4:AC:167:TYR:CE2	2.42	0.54
6:AE:55:VAL:O	6:AE:59:ILE:HG12	2.08	0.54
9:AH:86:LYS:HE3	9:AH:91:LEU:HG	1.90	0.54
11:AJ:46:LYS:O	11:AJ:46:LYS:HD2	2.07	0.54
13:AL:56:LEU:HD22	13:AL:56:LEU:N	2.21	0.54
17:AP:12:LYS:HD2	17:AP:12:LYS:N	2.22	0.54
22:B0:154:U:H2'	22:B0:161:A:O4'	2.08	0.54
22:B0:535:G:C1'	40:BO:52:ARG:HG3	2.35	0.54
22:B0:750:A:O2'	22:B0:751:A:H5'	2.08	0.54
22:B0:1113:U:H2'	22:B0:1114:C:C6	2.42	0.54
22:B0:1464:G:H2'	22:B0:1465:U:H5'	1.89	0.54
22:B0:1495:A:H1'	26:BA:128:THR:HG22	1.90	0.54
22:B0:1960:A:H2'	22:B0:1961:C:H6	1.73	0.54
22:B0:2106:U:H2'	22:B0:2107:G:H8	1.73	0.54
22:B0:2335:A:O2'	22:B0:2336:A:C8	2.59	0.54
24:B2:104:LYS:HZ1	24:B2:126:LEU:HD22	1.71	0.54
26:BA:86:ARG:NH2	26:BA:88:ALA:HB3	2.23	0.54
27:BB:122:VAL:CG2	27:BB:141:ARG:HA	2.37	0.54
37:BL:34:ILE:O	37:BL:112:TYR:HA	2.07	0.54
40:BO:9:ALA:O	40:BO:10:ARG:HB2	2.08	0.54
41:BQ:27:LYS:HG2	41:BQ:28:LYS:HG2	1.88	0.54
1:AA:419:C:C1'	1:AA:541:G:HO2'	2.20	0.54
1:AA:436:C:O2'	1:AA:437:U:P	2.66	0.54
1:AA:721:G:H4'	1:AA:722:G:C5'	2.37	0.54
1:AA:913:A:H4'	1:AA:914:A:O5'	2.07	0.54
1:AA:1118:U:H4'	10:AI:104:THR:HG23	1.89	0.54
2:AV:9:A:O2'	2:AV:45:G:H2'	2.08	0.54
4:AC:131:ARG:O	4:AC:135:ARG:HG2	2.08	0.54
6:AE:71:ILE:HD13	6:AE:73:VAL:HG13	1.90	0.54
6:AE:81:GLN:O	9:AH:96:ALA:HB2	2.08	0.54
6:AE:133:ILE:HD12	6:AE:133:ILE:N	2.23	0.54
8:AG:31:VAL:O	8:AG:32:ASP:HB2	2.08	0.54
13:AL:115:LYS:NZ	13:AL:115:LYS:HB3	2.23	0.54
22:B0:329:G:O6	43:BS:65:GLN:HB3	2.06	0.54
22:B0:698:C:H4'	22:B0:734:A:N1	2.22	0.54
22:B0:863:A:H2'	22:B0:864:G:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:956:G:C2'	36:BK:80:VAL:HG22	2.33	0.54
22:B0:1024:G:H5'	22:B0:1025:G:C4'	2.37	0.54
22:B0:2175:C:O2	24:B2:171:HIS:HB3	2.07	0.54
22:B0:2287:A:O2'	22:B0:2288:A:O5'	2.26	0.54
22:B0:2478:A:H1'	22:B0:2529:G:P	2.48	0.54
22:B0:2747:G:H5''	30:BE:69:ALA:HB1	1.89	0.54
24:B2:172:THR:HG21	24:B2:191:LEU:CD2	2.38	0.54
26:BA:243:PRO:HB3	26:BA:259:ASN:ND2	2.23	0.54
27:BB:22:ILE:HG21	27:BB:190:LYS:NZ	2.23	0.54
27:BB:137:SER:C	27:BB:139:SER:N	2.60	0.54
30:BE:102:ILE:HD11	30:BE:112:VAL:HB	1.90	0.54
35:BJ:108:ALA:O	35:BJ:126:ARG:HG2	2.07	0.54
42:BR:87:LEU:HD12	42:BR:87:LEU:N	2.23	0.54
46:BW:51:ALA:O	46:BW:55:THR:HG23	2.08	0.54
1:AA:36:C:O5'	1:AA:36:C:H6	1.91	0.54
1:AA:229:U:H2'	1:AA:230:G:C8	2.43	0.54
1:AA:1053:G:O6	1:AA:1200:C:H5'	2.07	0.54
1:AA:1380:U:H4'	1:AA:1381:U:C6	2.42	0.54
2:AU:18:G:H1'	2:AU:57:G:N2	2.22	0.54
5:AD:49:ASP:O	5:AD:52:VAL:HG12	2.08	0.54
6:AE:140:ILE:O	6:AE:144:GLU:HG3	2.08	0.54
8:AG:112:ASP:OD1	8:AG:118:ARG:HG2	2.07	0.54
9:AH:86:LYS:HB2	9:AH:90:GLU:HB3	1.89	0.54
10:AI:83:THR:CG2	10:AI:102:PHE:HB3	2.31	0.54
22:B0:494:G:N3	41:BQ:6:LYS:HG3	2.23	0.54
22:B0:500:G:H5'	22:B0:505:A:N6	2.23	0.54
22:B0:801:G:N1	28:BC:72:SER:OG	2.41	0.54
22:B0:877:A:H2'	22:B0:878:A:C8	2.42	0.54
22:B0:910:A:N6	36:BK:10:ARG:CG	2.71	0.54
22:B0:990:A:N6	22:B0:1186:G:H1'	2.23	0.54
22:B0:1421:G:H1	26:BA:149:LYS:C	2.07	0.54
25:B3:51:LYS:HA	25:B3:52:THR:CA	2.38	0.54
25:B3:68:VAL:HG22	25:B3:115:ALA:HB2	1.90	0.54
25:B5:17:MET:O	25:B5:21:GLU:HG3	2.08	0.54
27:BB:148:GLN:H	27:BB:148:GLN:CD	2.11	0.54
28:BC:92:HIS:CE1	35:BJ:25:SER:HB3	2.42	0.54
29:BD:48:LEU:HA	29:BD:51:ASN:HD21	1.73	0.54
29:BD:63:LYS:HD3	29:BD:63:LYS:N	2.20	0.54
33:BH:109:LEU:HD11	33:BH:116:ARG:NH2	2.22	0.54
39:BN:22:GLY:O	39:BN:25:VAL:HB	2.08	0.54
39:BN:107:ALA:HB3	39:BN:110:LYS:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:46:TYR:O	40:BO:47:ARG:HG2	2.08	0.54
45:BU:39:GLN:CG	45:BU:68:PHE:HA	2.38	0.54
1:AA:177:G:H5''	21:AT:59:ARG:HH22	1.73	0.54
1:AA:419:C:H4'	1:AA:541:G:O2'	2.08	0.54
1:AA:427:U:N3	1:AA:428:G:N7	2.56	0.54
1:AA:1336:C:H41	8:AG:108:ARG:NH2	2.06	0.54
1:AA:1379:G:H2'	1:AA:1380:U:O4'	2.08	0.54
3:AB:222:GLU:OE1	3:AB:228:LEU:HD21	2.08	0.54
4:AC:130:ARG:HG3	4:AC:133:MET:HE2	1.89	0.54
5:AD:196:GLU:H	5:AD:196:GLU:CD	2.11	0.54
7:AF:26:THR:HA	7:AF:29:ILE:HG22	1.89	0.54
7:AF:42:TRP:CZ2	7:AF:61:LEU:HD21	2.42	0.54
11:AJ:42:LEU:HB3	11:AJ:43:PRO:HD2	1.89	0.54
17:AP:57:ILE:CD1	17:AP:75:ILE:HD13	2.38	0.54
22:B0:63:A:H4'	22:B0:64:A:C8	2.43	0.54
22:B0:163:C:H4'	22:B0:164:C:C6	2.43	0.54
22:B0:524:G:C4'	22:B0:555:U:H4'	2.38	0.54
22:B0:1421:G:C2	26:BA:149:LYS:CG	2.90	0.54
22:B0:1495:A:C3'	26:BA:190:THR:HA	2.25	0.54
22:B0:1496:A:OP2	26:BA:191:LEU:O	2.25	0.54
22:B0:2677:G:O4'	27:BB:160:LYS:HD3	2.08	0.54
22:B0:2895:C:H4'	33:BH:43:GLU:HG3	1.90	0.54
25:B5:69:ILE:HD12	25:B5:84:LYS:HA	1.90	0.54
28:BC:83:VAL:HG11	35:BJ:30:THR:CG2	2.27	0.54
28:BC:177:PRO:O	35:BJ:17:LYS:HB2	2.08	0.54
33:BH:105:VAL:HA	33:BH:108:MET:CE	2.36	0.54
34:BI:105:ARG:HG3	34:BI:108:ARG:NH2	2.23	0.54
35:BJ:135:ILE:HG13	35:BJ:142:ILE:HD11	1.90	0.54
37:BL:23:ASN:C	37:BL:25:ALA:H	2.10	0.54
37:BL:102:PHE:HA	37:BL:109:PRO:HA	1.89	0.54
39:BN:94:ALA:O	39:BN:95:LYS:HB2	2.07	0.54
40:BO:4:LYS:HE2	40:BO:5:ARG:N	2.22	0.54
40:BO:26:ALA:HB3	40:BO:27:ARG:CZ	2.38	0.54
49:B1:6:GLU:O	49:B1:26:LYS:HA	2.08	0.54
49:B1:14:ALA:HA	49:B1:47:ILE:O	2.08	0.54
1:AA:417:G:N1	1:AA:427:U:C2	2.76	0.54
1:AA:815:A:N7	1:AA:1510:C:H4'	2.23	0.54
1:AA:1268:G:H1'	1:AA:1326:U:O2'	2.07	0.54
1:AA:1386:G:H2'	1:AA:1387:G:H8	1.73	0.54
2:AU:74:C:C3'	22:B0:2557:G:O4'	2.55	0.54
4:AC:99:GLN:HG3	4:AC:100:ILE:N	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:52:ARG:O	8:AG:52:ARG:HD3	2.08	0.54
10:AI:119:LYS:HD2	10:AI:119:LYS:N	2.23	0.54
12:AK:112:VAL:HG22	12:AK:112:VAL:O	2.08	0.54
14:AM:21:ILE:HG22	14:AM:23:GLY:H	1.73	0.54
22:B0:34:U:H5'	22:B0:35:G:OP2	2.07	0.54
22:B0:151:C:H5'	22:B0:1360:G:OP1	2.08	0.54
22:B0:447:A:H5''	22:B0:448:U:OP1	2.07	0.54
22:B0:520:G:OP1	41:BQ:25:ARG:HD2	2.08	0.54
22:B0:699:A:H2'	22:B0:700:G:O4'	2.08	0.54
22:B0:738:G:C2	22:B0:739:A:H1'	2.42	0.54
22:B0:800:A:N7	28:BC:56:GLY:N	2.47	0.54
22:B0:1203:U:OP2	35:BJ:10:GLU:HB3	2.08	0.54
22:B0:1322:A:H2	22:B0:1334:G:H5'	1.71	0.54
22:B0:1421:G:C4	26:BA:149:LYS:HB3	2.42	0.54
22:B0:1454:A:H3'	22:B0:1455:U:H4'	1.90	0.54
22:B0:1578:U:H4'	26:BA:64:VAL:C	2.28	0.54
22:B0:1695:G:C2'	22:B0:1696:G:H5'	2.38	0.54
22:B0:1903:G:H2'	22:B0:1904:G:C8	2.43	0.54
22:B0:2503:A:H5''	22:B0:2504:U:OP1	2.08	0.54
22:B0:2900:C:H5	33:BH:139:VAL:HG22	1.73	0.54
25:B3:96:GLU:HB3	25:B5:8:ILE:CG2	2.36	0.54
25:B5:69:ILE:O	25:B5:73:ARG:HG3	2.08	0.54
28:BC:35:TYR:CD2	35:BJ:18:ARG:HA	2.42	0.54
40:BO:91:ARG:O	40:BO:92:LYS:HD2	2.07	0.54
40:BO:109:VAL:HG23	40:BO:110:GLU:N	2.23	0.54
1:AA:426:U:H4'	5:AD:38:GLY:H	1.73	0.53
1:AA:737:C:H2'	1:AA:738:C:C6	2.42	0.53
1:AA:1108:G:H2'	1:AA:1109:C:C6	2.42	0.53
2:AV:18:G:H5''	2:AV:60:C:C2	2.43	0.53
10:AI:82:ILE:O	10:AI:86:LEU:HG	2.08	0.53
15:AN:63:CYS:HB3	15:AN:67:GLY:N	2.23	0.53
16:AO:47:LYS:HA	16:AO:47:LYS:CE	2.36	0.53
20:AS:12:LEU:O	20:AS:16:LYS:HG3	2.08	0.53
21:AT:8:LYS:HB2	21:AT:8:LYS:NZ	2.23	0.53
22:B0:588:U:N3	28:BC:74:LYS:HA	2.22	0.53
22:B0:1030:C:O5'	22:B0:1030:C:H6	1.90	0.53
22:B0:1201:U:N3	22:B0:1245:G:N2	2.49	0.53
22:B0:1201:U:C2	35:BJ:14:LYS:HE3	2.43	0.53
22:B0:1651:G:H1	22:B0:2006:C:N4	2.06	0.53
22:B0:1800:C:O2'	22:B0:1801:A:OP2	2.23	0.53
22:B0:1985:C:H2'	22:B0:1986:C:C6	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2555:U:C4	22:B0:2556:C:N4	2.76	0.53
22:B0:2722:G:H2'	22:B0:2723:C:C6	2.43	0.53
24:B2:22:ILE:HG22	24:B2:185:LYS:HB2	1.91	0.53
26:BA:137:GLY:N	26:BA:163:ILE:HB	2.14	0.53
28:BC:33:VAL:HB	35:BJ:22:GLY:HA2	1.90	0.53
29:BD:41:GLU:O	29:BD:42:ALA:HB3	2.07	0.53
32:BG:136:GLY:O	32:BG:137:LEU:O	2.26	0.53
35:BJ:56:PRO:CB	35:BJ:59:ARG:HB3	2.37	0.53
40:BO:82:LEU:HD13	40:BO:82:LEU:O	2.08	0.53
41:BQ:19:LEU:O	41:BQ:19:LEU:HD23	2.08	0.53
45:BU:23:LYS:HZ2	45:BU:56:HIS:CB	2.21	0.53
45:BU:58:LEU:CB	45:BU:81:ILE:HA	2.38	0.53
46:BW:13:GLU:HA	46:BW:16:THR:HG22	1.91	0.53
1:AA:32:A:H2'	1:AA:33:A:O4'	2.08	0.53
1:AA:321:A:H2	1:AA:332:G:H22	1.56	0.53
1:AA:817:C:C1'	1:AA:819:A:H5'	2.39	0.53
1:AA:1349:A:N6	1:AA:1373:G:H1'	2.23	0.53
2:AU:18:G:H1	2:AU:55:U:H6	1.56	0.53
6:AE:80:LEU:HG	6:AE:146:MET:HE1	1.91	0.53
6:AE:110:MET:O	6:AE:114:LEU:HG	2.09	0.53
10:AI:27:ILE:HB	10:AI:34:LEU:HG	1.90	0.53
17:AP:6:LEU:HD12	17:AP:6:LEU:N	2.24	0.53
17:AP:56:ARG:HA	17:AP:56:ARG:NE	2.23	0.53
22:B0:190:A:H5''	22:B0:204:A:C2	2.44	0.53
22:B0:226:A:H61	22:B0:409:G:N2	2.03	0.53
22:B0:494:G:C4	41:BQ:6:LYS:HD2	2.42	0.53
22:B0:529:A:H4'	22:B0:530:G:O5'	2.08	0.53
22:B0:589:U:H3	28:BC:74:LYS:HE3	1.74	0.53
22:B0:672:C:H2'	22:B0:673:C:C6	2.43	0.53
22:B0:675:A:H62	28:BC:61:ARG:NH1	2.06	0.53
22:B0:955:U:O2'	22:B0:2276:G:H4'	2.09	0.53
22:B0:1992:G:O2'	22:B0:1993:U:H3'	2.07	0.53
22:B0:1992:G:C2	27:BB:138:LEU:HD11	2.43	0.53
22:B0:2351:G:H2'	22:B0:2352:A:C8	2.42	0.53
22:B0:2445:G:H2'	22:B0:2446:G:H8	1.72	0.53
22:B0:2898:G:N7	33:BH:15:TRP:CG	2.76	0.53
25:B3:73:ARG:NH1	25:B3:73:ARG:HB3	2.23	0.53
33:BH:32:LEU:HB3	33:BH:54:ILE:HD12	1.90	0.53
33:BH:58:ASN:HB3	33:BH:127:GLY:O	2.08	0.53
39:BN:30:TRP:CZ3	39:BN:85:VAL:HB	2.43	0.53
42:BR:66:LYS:HA	42:BR:66:LYS:CE	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:979:C:C5'	20:AS:5:LYS:NZ	2.71	0.53
1:AA:1195:C:H3'	1:AA:1196:A:C5'	2.38	0.53
1:AA:1230:C:H2'	1:AA:1231:G:C8	2.43	0.53
1:AA:1300:G:O2'	1:AA:1303:C:N4	2.41	0.53
1:AA:1308:U:H2'	1:AA:1309:G:H8	1.73	0.53
3:AB:169:HIS:HE1	3:AB:173:LYS:HD3	1.73	0.53
4:AC:111:ASP:O	4:AC:115:VAL:HG23	2.09	0.53
22:B0:580:U:O2'	22:B0:581:C:H5'	2.07	0.53
22:B0:620:G:O2'	22:B0:621:A:OP2	2.18	0.53
22:B0:960:A:C2	22:B0:2497:A:H5''	2.44	0.53
22:B0:1306:C:N4	22:B0:1606:C:H2'	2.24	0.53
22:B0:1578:U:O3'	26:BA:65:ASP:HA	2.07	0.53
22:B0:1828:G:C5'	22:B0:1829:A:OP1	2.49	0.53
22:B0:2447:G:N7	22:B0:2501:C:OP2	2.41	0.53
25:B5:26:MET:O	25:B5:35:ALA:HB1	2.08	0.53
26:BA:86:ARG:HD2	26:BA:195:GLY:HA3	1.89	0.53
27:BB:108:ASP:OD2	27:BB:206:ALA:HA	2.08	0.53
28:BC:66:GLY:O	28:BC:72:SER:HA	2.08	0.53
28:BC:134:LEU:HB3	28:BC:164:LEU:HD11	1.90	0.53
35:BJ:76:GLU:HB3	35:BJ:108:ALA:HB2	1.90	0.53
37:BL:40:LYS:HG3	37:BL:41:ALA:N	2.23	0.53
37:BL:98:LEU:N	37:BL:98:LEU:HD12	2.23	0.53
38:BM:15:ARG:HB2	38:BM:18:LEU:HD13	1.89	0.53
42:BR:68:LYS:O	42:BR:69:ARG:HB3	2.08	0.53
48:BZ:36:LYS:HE2	48:BZ:38:LEU:HD12	1.88	0.53
1:AA:18:C:H2'	1:AA:19:A:C8	2.44	0.53
1:AA:430:A:O2'	1:AA:431:A:C4	2.61	0.53
1:AA:762:U:H2'	1:AA:763:G:H8	1.73	0.53
1:AA:802:A:H2'	1:AA:803:G:O4'	2.08	0.53
1:AA:1381:U:C2	8:AG:78:ARG:NH1	2.77	0.53
2:AU:70:C:H2'	2:AU:71:G:H8	1.73	0.53
4:AC:119:ILE:HD11	4:AC:136:ALA:CB	2.38	0.53
5:AD:8:LEU:HD11	5:AD:29:THR:H	1.72	0.53
14:AM:5:GLY:HA2	29:BD:133:GLU:CD	2.29	0.53
16:AO:32:THR:HG22	16:AO:36:ASN:HD21	1.73	0.53
22:B0:480:A:H2'	22:B0:506:G:N2	2.23	0.53
22:B0:600:G:C1'	28:BC:99:LYS:HB3	2.38	0.53
22:B0:826:U:O4'	35:BJ:55:MET:HB3	2.08	0.53
22:B0:857:G:H4'	45:BU:71:LYS:HZ2	1.72	0.53
22:B0:876:C:H2'	22:B0:877:A:C8	2.42	0.53
22:B0:956:G:H2'	36:BK:80:VAL:CG2	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1490:C:H5'	26:BA:160:TYR:CE1	2.44	0.53
22:B0:1578:U:O2'	26:BA:65:ASP:N	2.41	0.53
22:B0:2242:G:H1	22:B0:2435:A:H62	1.57	0.53
22:B0:2280:G:O2'	22:B0:2281:A:H5'	2.08	0.53
22:B0:2726:A:OP2	27:BB:129:THR:HG21	2.08	0.53
24:B2:47:LEU:HA	24:B2:207:TYR:O	2.09	0.53
25:B5:47:ALA:C	25:B5:49:GLU:H	2.11	0.53
26:BA:64:VAL:CG1	26:BA:150:GLY:HA2	2.38	0.53
28:BC:43:THR:CG2	28:BC:91:ASP:HB3	2.38	0.53
32:BG:60:VAL:HG12	32:BG:61:TYR:CD1	2.43	0.53
40:BO:45:ALA:O	40:BO:47:ARG:N	2.42	0.53
41:BQ:88:ARG:HH22	41:BQ:92:ARG:C	2.12	0.53
1:AA:69:G:H1	1:AA:99:C:H42	1.56	0.53
1:AA:143:A:H2	1:AA:220:G:H22	1.56	0.53
1:AA:419:C:C5'	1:AA:540:G:N2	2.70	0.53
1:AA:603:U:H2'	1:AA:604:G:C8	2.43	0.53
1:AA:809:G:O2'	1:AA:810:C:H5'	2.07	0.53
1:AA:817:C:O4'	1:AA:819:A:H5'	2.08	0.53
1:AA:837:U:H2'	1:AA:838:G:C8	2.42	0.53
1:AA:976:G:N2	1:AA:1362:A:H3'	2.22	0.53
1:AA:979:C:C5'	20:AS:5:LYS:HD2	2.32	0.53
1:AA:1151:A:H2'	1:AA:1152:A:C8	2.43	0.53
1:AA:1238:A:C2	1:AA:1242:G:H1'	2.43	0.53
1:AA:1300:G:H5'	1:AA:1301:U:OP1	2.08	0.53
2:AU:37:G:H2'	2:AU:38:A:O4'	2.09	0.53
2:AU:75:C:OP1	22:B0:2556:C:C6	2.61	0.53
4:AC:148:ILE:HD13	4:AC:148:ILE:C	2.29	0.53
7:AF:75:GLU:HB3	7:AF:79:ARG:HH12	1.74	0.53
11:AJ:17:LEU:HD12	11:AJ:18:ILE:N	2.23	0.53
18:AQ:7:LEU:HD12	18:AQ:7:LEU:N	2.24	0.53
22:B0:87:U:H3	22:B0:95:A:H2	1.53	0.53
22:B0:121:G:O6	22:B0:130:C:C4	2.61	0.53
22:B0:165:A:H4'	22:B0:172:A:H8	1.71	0.53
22:B0:700:G:N2	22:B0:733:G:H1'	2.23	0.53
22:B0:817:C:H2'	22:B0:818:G:O4'	2.08	0.53
22:B0:942:G:H5''	35:BJ:42:SER:CB	2.37	0.53
22:B0:1202:G:O4'	35:BJ:14:LYS:HG3	2.09	0.53
22:B0:1240:U:H2'	22:B0:1241:A:C8	2.43	0.53
22:B0:1421:G:N3	26:BA:149:LYS:CA	2.69	0.53
22:B0:1580:A:C8	26:BA:68:ARG:HG2	2.43	0.53
22:B0:1650:A:H2'	22:B0:1651:G:C8	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2279:G:H5''	45:BU:4:LYS:HE3	1.91	0.53
22:B0:2528:U:H3'	22:B0:2530:A:C8	2.43	0.53
22:B0:2550:G:N2	22:B0:2558:C:N4	2.56	0.53
25:B3:51:LYS:HG2	25:B5:50:GLU:HG3	1.90	0.53
25:B5:36:ALA:O	25:B5:40:VAL:HG12	2.09	0.53
26:BA:86:ARG:CZ	26:BA:88:ALA:HB3	2.38	0.53
26:BA:122:ALA:O	26:BA:129:LEU:HD21	2.08	0.53
26:BA:143:VAL:HG22	26:BA:153:LEU:CB	2.37	0.53
28:BC:43:THR:HG22	28:BC:90:GLN:O	2.08	0.53
28:BC:77:ILE:O	28:BC:77:ILE:HG22	2.08	0.53
29:BD:90:LEU:HD13	29:BD:90:LEU:N	2.24	0.53
34:BI:43:ILE:HD11	34:BI:53:LYS:HG3	1.90	0.53
34:BI:80:ASP:OD1	39:BN:70:GLU:HG3	2.07	0.53
35:BJ:134:ALA:HB3	35:BJ:135:ILE:HD13	1.89	0.53
37:BL:114:GLU:C	37:BL:115:LEU:HD12	2.29	0.53
38:BM:9:ARG:HH21	38:BM:16:ARG:HB2	1.74	0.53
39:BN:64:SER:HA	39:BN:71:ARG:CG	2.37	0.53
40:BO:54:ARG:H	40:BO:57:ARG:CG	2.19	0.53
41:BQ:51:LEU:O	41:BQ:51:LEU:HD13	2.09	0.53
47:BX:28:LEU:HD12	47:BX:28:LEU:N	2.24	0.53
48:BZ:36:LYS:C	48:BZ:36:LYS:HD3	2.29	0.53
48:BZ:38:LEU:HD12	48:BZ:38:LEU:N	2.24	0.53
1:AA:22:G:H2'	1:AA:23:C:C6	2.43	0.53
1:AA:291:U:O2'	1:AA:292:G:H5'	2.08	0.53
1:AA:448:A:H2'	1:AA:449:G:O4'	2.09	0.53
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.43	0.53
1:AA:1454:G:H2'	1:AA:1455:G:H8	1.72	0.53
4:AC:149:LYS:HG3	4:AC:168:ARG:HB3	1.90	0.53
13:AL:23:LEU:HG	13:AL:58:ASN:HB3	1.91	0.53
14:AM:95:PRO:HB3	14:AM:101:THR:CG2	2.39	0.53
22:B0:501:A:HO2'	22:B0:502:A:P	2.31	0.53
22:B0:662:G:H4'	28:BC:95:LYS:HE3	1.90	0.53
22:B0:1035:U:H2'	22:B0:1036:G:C8	2.43	0.53
22:B0:1044:C:O2'	22:B0:1045:C:H5''	2.07	0.53
22:B0:1155:A:C6	22:B0:1157:G:H1'	2.43	0.53
22:B0:1340:U:H1'	22:B0:1603:A:C5'	2.39	0.53
22:B0:1495:A:N7	26:BA:142:ASN:HB3	2.24	0.53
22:B0:1501:C:HO2'	26:BA:199:HIS:HE2	1.53	0.53
22:B0:1581:A:H62	26:BA:68:ARG:HH12	1.57	0.53
22:B0:1929:G:H4'	22:B0:1930:G:O5'	2.09	0.53
22:B0:1996:C:C6	27:BB:137:SER:C	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2005:A:H3'	22:B0:2006:C:C5	2.43	0.53
22:B0:2127:G:C2'	22:B0:2166:U:H5'	2.39	0.53
22:B0:2175:C:H3'	22:B0:2175:C:C6	2.43	0.53
22:B0:2266:A:H5''	22:B0:2267:A:O5'	2.09	0.53
22:B0:2591:C:H2'	22:B0:2592:G:H8	1.72	0.53
22:B0:2898:G:C2	33:BH:132:HIS:CE1	2.96	0.53
23:B9:76:G:N2	23:B9:100:G:N2	2.56	0.53
25:B3:58:LEU:HD23	25:B3:87:VAL:HA	1.91	0.53
26:BA:129:LEU:HD22	26:BA:129:LEU:N	2.24	0.53
28:BC:91:ASP:O	35:BJ:27:LEU:O	2.26	0.53
28:BC:186:VAL:CG2	28:BC:187:VAL:H	2.06	0.53
33:BH:123:LYS:HG3	33:BH:124:VAL:N	2.24	0.53
38:BM:7:ARG:HA	38:BM:10:ARG:NE	2.23	0.53
40:BO:15:LYS:HZ2	40:BO:15:LYS:N	2.06	0.53
44:BT:34:LYS:HD3	44:BT:34:LYS:N	2.24	0.53
44:BT:80:HIS:HD2	44:BT:83:LYS:HG2	1.73	0.53
46:BW:47:ARG:HG3	46:BW:48:ARG:HD2	1.91	0.53
1:AA:482:A:O2'	1:AA:483:C:P	2.66	0.53
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.41	0.53
1:AA:1239:A:C6	1:AA:1296:C:H1'	2.43	0.53
1:AA:1344:C:H4'	10:AI:119:LYS:HZ3	1.74	0.53
1:AA:1367:C:H3'	10:AI:115:VAL:HG11	1.91	0.53
2:AV:70:C:H2'	2:AV:71:G:C8	2.44	0.53
3:AB:42:LEU:O	3:AB:46:VAL:HG23	2.09	0.53
3:AB:102:ASN:O	3:AB:106:VAL:HG23	2.08	0.53
5:AD:2:ARG:HD3	5:AD:67:LEU:HD22	1.91	0.53
5:AD:170:LEU:HD21	5:AD:181:PHE:HD1	1.74	0.53
16:AO:56:LEU:HD12	16:AO:57:ARG:CD	2.39	0.53
22:B0:321:U:C5'	22:B0:322:A:OP2	2.50	0.53
22:B0:493:G:C3'	41:BQ:8:ARG:HA	2.34	0.53
22:B0:1416:G:C2	22:B0:1417:U:C4	2.97	0.53
22:B0:1577:C:H5''	26:BA:61:TYR:CD1	2.43	0.53
22:B0:1830:C:H42	22:B0:1975:G:N2	2.00	0.53
22:B0:2127:G:H2'	22:B0:2166:U:P	2.49	0.53
22:B0:2411:A:H2'	22:B0:2412:A:C8	2.44	0.53
24:B2:49:ILE:HD13	24:B2:49:ILE:N	2.23	0.53
25:B3:93:ALA:HB2	25:B5:4:LYS:HD3	1.90	0.53
26:BA:62:ARG:NH2	26:BA:149:LYS:HG3	2.24	0.53
26:BA:149:LYS:HG3	26:BA:150:GLY:N	2.21	0.53
27:BB:31:ALA:HB1	27:BB:94:GLN:NE2	2.23	0.53
28:BC:5:LEU:HD13	28:BC:15:SER:C	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:160:LYS:HD2	29:BD:160:LYS:N	2.21	0.53
31:BF:6:LEU:HA	31:BF:13:GLY:O	2.09	0.53
36:BK:108:VAL:O	36:BK:110:GLU:N	2.42	0.53
39:BN:43:GLU:HG3	39:BN:44:GLY:H	1.73	0.53
43:BS:28:LEU:C	43:BS:30:SER:H	2.12	0.53
49:B1:29:LYS:H	49:B1:29:LYS:CD	2.22	0.53
1:AA:400:C:H2'	1:AA:401:C:C6	2.44	0.53
1:AA:482:A:N7	1:AA:486:U:N3	2.55	0.53
2:AU:75:C:P	22:B0:2557:G:O4'	2.67	0.53
2:AW:69:U:H2'	2:AW:70:C:C6	2.44	0.53
10:AI:90:ASP:OD1	10:AI:92:SER:HB2	2.09	0.53
16:AO:57:ARG:HG2	16:AO:57:ARG:HH11	1.74	0.53
21:AT:53:MET:CE	21:AT:78:LEU:HD12	2.39	0.53
22:B0:71:A:H62	22:B0:114:U:H3	1.56	0.53
22:B0:121:G:O5'	22:B0:121:G:H8	1.92	0.53
22:B0:1242:U:H2'	22:B0:1243:C:C6	2.44	0.53
22:B0:1498:C:H5'	26:BA:61:TYR:O	2.09	0.53
22:B0:1580:A:O4'	26:BA:68:ARG:CB	2.53	0.53
22:B0:1800:C:O2'	22:B0:1801:A:P	2.66	0.53
22:B0:1900:A:H4'	22:B0:1971:U:OP1	2.09	0.53
22:B0:1996:C:N3	27:BB:138:LEU:CD2	2.71	0.53
22:B0:2092:U:H5'	22:B0:2093:G:OP1	2.09	0.53
22:B0:2102:G:H1	22:B0:2187:U:H3	1.55	0.53
22:B0:2132:U:OP1	24:B2:7:MET:SD	2.67	0.53
22:B0:2164:C:O2'	22:B0:2165:C:C2	2.57	0.53
22:B0:2406:A:H2'	22:B0:2406:A:N3	2.24	0.53
25:B5:50:GLU:HA	25:B5:54:PHE:HA	1.91	0.53
28:BC:108:ILE:HG23	28:BC:109:LEU:N	2.24	0.53
33:BH:103:ILE:O	33:BH:106:LYS:HB3	2.09	0.53
33:BH:112:GLY:HA2	33:BH:113:PRO:C	2.28	0.53
45:BU:65:LYS:H	45:BU:65:LYS:CD	2.21	0.53
1:AA:231:U:H2'	1:AA:232:G:H8	1.74	0.53
1:AA:707:U:H2'	1:AA:708:C:C6	2.43	0.53
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.44	0.53
1:AA:1386:G:O2'	10:AI:129:ARG:HD2	2.09	0.53
2:AU:75:C:O5'	22:B0:2557:G:O4'	2.26	0.53
2:AV:3:G:H2'	2:AV:4:G:H8	1.72	0.53
2:AW:56:C:H41	22:B0:2122:U:H3	1.56	0.53
5:AD:78:ALA:HB3	5:AD:89:LEU:HD23	1.90	0.53
6:AE:37:VAL:HG11	6:AE:113:VAL:HA	1.91	0.53
7:AF:42:TRP:HE3	7:AF:59:TYR:HB3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:149:ALA:C	8:AG:151:ALA:H	2.11	0.53
13:AL:98:ARG:HA	13:AL:103:CYS:SG	2.48	0.53
22:B0:20:C:H2'	22:B0:21:A:H8	1.74	0.53
22:B0:493:G:H5''	41:BQ:9:HIS:N	2.13	0.53
22:B0:661:A:OP1	35:BJ:27:LEU:HA	2.09	0.53
22:B0:685:A:H1'	22:B0:687:C:N4	2.23	0.53
22:B0:971:G:H5'	22:B0:983:A:N3	2.24	0.53
22:B0:1417:U:C4	26:BA:98:GLY:O	2.62	0.53
22:B0:1491:A:H5'	26:BA:161:VAL:HB	1.89	0.53
22:B0:1658:C:C4	22:B0:1659:G:N7	2.77	0.53
22:B0:1679:A:H2'	22:B0:1680:U:C6	2.43	0.53
22:B0:2158:A:O2'	22:B0:2159:G:H4'	2.09	0.53
22:B0:2439:A:C5'	22:B0:2440:C:OP1	2.55	0.53
22:B0:2898:G:N7	33:BH:15:TRP:C	2.62	0.53
32:BG:48:ILE:H	32:BG:48:ILE:CD1	2.16	0.53
32:BG:77:VAL:O	32:BG:78:LEU:HB2	2.09	0.53
35:BJ:6:LEU:HD23	35:BJ:6:LEU:H	1.73	0.53
49:B1:47:ILE:HG22	49:B1:48:TYR:N	2.23	0.53
1:AA:47:C:O4'	1:AA:365:U:C2	2.62	0.53
1:AA:337:G:H2'	1:AA:338:A:C8	2.44	0.53
1:AA:481:G:O2'	1:AA:482:A:O4'	2.27	0.53
1:AA:608:A:H3'	1:AA:609:A:C8	2.43	0.53
1:AA:1049:U:HO2'	1:AA:1050:G:P	2.31	0.53
1:AA:1138:G:H3'	1:AA:1138:G:N3	2.23	0.53
1:AA:1241:G:H2'	1:AA:1241:G:N3	2.24	0.53
1:AA:1365:G:H2'	1:AA:1366:C:O4'	2.09	0.53
1:AA:1383:C:O2'	1:AA:1384:C:OP1	2.26	0.53
2:AU:69:U:H2'	2:AU:70:C:C6	2.44	0.53
3:AB:45:THR:HG22	3:AB:49:PHE:CE2	2.44	0.53
7:AF:51:ILE:HD12	7:AF:51:ILE:O	2.10	0.53
9:AH:10:LEU:HG	9:AH:74:ILE:HG12	1.90	0.53
21:AT:23:ARG:HG2	21:AT:65:LEU:HD13	1.90	0.53
22:B0:535:G:H5'	40:BO:49:ARG:CB	2.39	0.53
22:B0:947:A:H2'	22:B0:948:C:C6	2.44	0.53
22:B0:956:G:H1'	22:B0:2250:G:N1	2.24	0.53
22:B0:1083:U:O2'	25:B3:81:LYS:CE	2.54	0.53
22:B0:1105:U:H2'	22:B0:1106:G:C8	2.42	0.53
22:B0:1418:G:H1'	26:BA:99:GLU:OE1	2.08	0.53
22:B0:1458:C:H2'	22:B0:1459:U:H5'	1.91	0.53
22:B0:1900:A:H5''	22:B0:1901:A:OP1	2.08	0.53
22:B0:2030:A:H4'	22:B0:2031:A:N7	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2160:C:H5''	22:B0:2162:G:OP2	2.09	0.53
22:B0:2263:C:H5''	45:BU:11:ASN:CA	2.33	0.53
25:B5:81:LYS:HE3	25:B5:82:GLU:OE1	2.09	0.53
27:BB:31:ALA:HB1	27:BB:94:GLN:HE22	1.74	0.53
28:BC:90:GLN:O	35:BJ:29:LYS:HB3	2.09	0.53
37:BL:38:LEU:HD11	37:BL:109:PRO:HD2	1.90	0.53
37:BL:75:ILE:H	37:BL:75:ILE:CD1	2.13	0.53
40:BO:91:ARG:HG3	40:BO:94:LEU:HD12	1.91	0.53
41:BQ:16:LYS:HD2	41:BQ:16:LYS:N	2.23	0.53
41:BQ:36:LEU:HD11	41:BQ:44:ALA:O	2.09	0.53
48:BZ:31:LYS:HG2	48:BZ:32:THR:N	2.23	0.53
1:AA:548:G:H2'	1:AA:549:C:O4'	2.09	0.52
1:AA:915:A:H2'	1:AA:916:U:H5'	1.89	0.52
1:AA:1257:A:O2'	1:AA:1258:G:OP2	2.23	0.52
1:AA:1399:C:H5''	1:AA:1400:C:OP1	2.09	0.52
1:AA:1508:A:H2'	1:AA:1509:C:C6	2.43	0.52
2:AU:63:C:H2'	2:AU:64:A:C8	2.44	0.52
2:AW:66:A:O3'	49:B1:4:ILE:HB	2.09	0.52
10:AI:127:SER:O	10:AI:128:LYS:C	2.46	0.52
16:AO:33:ALA:HA	16:AO:36:ASN:HD22	1.74	0.52
22:B0:163:C:H5'	22:B0:164:C:C5'	2.38	0.52
22:B0:311:A:N6	22:B0:329:G:H5''	2.23	0.52
22:B0:518:G:H5''	41:BQ:18:ARG:CZ	2.39	0.52
22:B0:846:U:O2'	22:B0:848:C:O5'	2.28	0.52
22:B0:959:A:OP2	36:BK:80:VAL:HG21	2.08	0.52
22:B0:960:A:C3'	22:B0:2496:C:H3'	2.37	0.52
22:B0:1086:A:H3'	22:B0:1086:A:N3	2.24	0.52
22:B0:1495:A:N9	26:BA:189:ALA:O	2.42	0.52
22:B0:1502:C:H2'	22:B0:1503:G:H8	1.73	0.52
22:B0:2086:U:H2'	22:B0:2087:G:C8	2.44	0.52
22:B0:2109:U:O2'	22:B0:2110:G:OP1	2.28	0.52
22:B0:2164:C:H1'	22:B0:2165:C:C2	2.44	0.52
22:B0:2312:U:H6	22:B0:2312:U:O5'	1.92	0.52
22:B0:2472:G:N2	22:B0:2529:G:H22	2.06	0.52
22:B0:2688:G:O6	22:B0:2720:U:OP2	2.27	0.52
24:B2:10:ILE:HG13	24:B2:32:LEU:HD22	1.91	0.52
28:BC:97:ASN:O	28:BC:101:TYR:HB3	2.09	0.52
31:BF:127:GLU:HG2	31:BF:143:ILE:HD11	1.91	0.52
36:BK:5:LYS:H	36:BK:5:LYS:CD	2.19	0.52
41:BQ:19:LEU:O	41:BQ:22:ASP:HB3	2.08	0.52
42:BR:93:LEU:HD22	42:BR:95:PHE:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:41:HIS:CE1	46:BW:45:GLN:HG3	2.44	0.52
46:BW:52:ARG:O	46:BW:56:LEU:HD13	2.08	0.52
49:B1:48:TYR:O	49:B1:49:LYS:HB2	2.08	0.52
1:AA:734:G:H8	1:AA:734:G:O5'	1.92	0.52
2:AV:20:G:C2	2:AV:21:A:H4'	2.45	0.52
3:AB:19:THR:HG23	3:AB:20:ARG:N	2.21	0.52
5:AD:40:HIS:HB3	5:AD:43:ARG:HD3	1.90	0.52
22:B0:415:A:N6	22:B0:2408:U:N3	2.56	0.52
22:B0:501:A:O2'	22:B0:502:A:P	2.67	0.52
22:B0:1038:G:H2'	22:B0:1039:A:C8	2.44	0.52
22:B0:1084:A:H61	25:B3:85:ASP:HB2	1.73	0.52
22:B0:1491:A:C2	26:BA:172:THR:HB	2.43	0.52
22:B0:1494:A:N1	26:BA:129:LEU:O	2.43	0.52
22:B0:1512:C:C2'	22:B0:1513:C:H5''	2.36	0.52
22:B0:1591:A:H2'	22:B0:1592:U:C6	2.44	0.52
22:B0:1607:C:O2	22:B0:1607:C:C2'	2.54	0.52
22:B0:1996:C:C1'	27:BB:138:LEU:C	2.77	0.52
22:B0:2002:G:H2'	22:B0:2003:A:C8	2.44	0.52
22:B0:2377:A:H2'	22:B0:2378:A:C8	2.45	0.52
22:B0:2898:G:N2	33:BH:55:ILE:HG21	2.24	0.52
24:B2:26:ILE:HG21	24:B2:181:ALA:HA	1.92	0.52
25:B3:44:PRO:HA	25:B3:47:ALA:HB2	1.91	0.52
26:BA:91:ALA:CB	26:BA:105:ALA:HB2	2.39	0.52
27:BB:80:TRP:CE3	27:BB:84:LEU:HB3	2.44	0.52
28:BC:117:ARG:HB3	28:BC:118:LEU:HD23	1.91	0.52
30:BE:18:ILE:HD13	30:BE:18:ILE:C	2.30	0.52
33:BH:74:TYR:HB2	33:BH:76:HIS:CE1	2.45	0.52
34:BI:18:ARG:HG3	34:BI:44:LYS:HB3	1.91	0.52
37:BL:53:THR:HG22	37:BL:54:LEU:CD2	2.39	0.52
37:BL:98:LEU:HB3	48:BZ:52:LYS:HB3	1.90	0.52
38:BM:35:ILE:HG22	38:BM:53:THR:HB	1.92	0.52
39:BN:60:VAL:C	39:BN:61:ARG:HD3	2.30	0.52
40:BO:63:ARG:HH11	40:BO:63:ARG:CB	2.23	0.52
42:BR:30:ILE:CG1	42:BR:87:LEU:HD11	2.31	0.52
44:BT:29:ILE:HD13	44:BT:29:ILE:C	2.30	0.52
49:B1:8:ILE:HG22	49:B1:25:ASN:O	2.10	0.52
1:AA:243:A:O2'	1:AA:244:U:H5'	2.09	0.52
1:AA:372:C:H4'	1:AA:373:A:C8	2.44	0.52
1:AA:430:A:O2'	1:AA:431:A:N9	2.42	0.52
1:AA:546:A:H5'	1:AA:548:G:O2'	2.10	0.52
1:AA:629:A:H2'	1:AA:630:A:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1385:G:C2'	10:AI:128:LYS:HD2	2.39	0.52
1:AA:1454:G:H2'	1:AA:1455:G:C8	2.45	0.52
5:AD:90:LEU:HD21	5:AD:187:ARG:HH11	1.75	0.52
8:AG:101:ARG:HG2	8:AG:105:GLU:OE2	2.09	0.52
12:AK:28:ASN:HB2	12:AK:56:LYS:HG3	1.91	0.52
18:AQ:61:ARG:HG3	18:AQ:75:VAL:HG21	1.92	0.52
19:AR:54:LEU:O	19:AR:58:ILE:HG13	2.08	0.52
22:B0:123:G:H4'	22:B0:1376:C:C5'	2.38	0.52
22:B0:586:A:C4'	28:BC:78:TRP:HA	2.33	0.52
22:B0:589:U:C5	28:BC:47:LYS:N	2.77	0.52
22:B0:700:G:O2'	22:B0:701:G:H5'	2.09	0.52
22:B0:1203:U:H2'	22:B0:1204:A:C8	2.44	0.52
22:B0:1890:A:H2	22:B0:2234:G:N2	2.07	0.52
22:B0:1943:U:OP1	22:B0:1943:U:H6	1.92	0.52
22:B0:2138:G:N2	22:B0:2158:A:N6	2.57	0.52
22:B0:2562:U:H2'	22:B0:2563:U:O4'	2.08	0.52
26:BA:119:VAL:HG12	26:BA:133:ASN:HD21	1.74	0.52
27:BB:27:ILE:HD12	27:BB:201:LEU:HD21	1.91	0.52
27:BB:32:ASN:OD1	27:BB:83:ARG:HB2	2.09	0.52
28:BC:99:LYS:O	28:BC:103:GLY:HA3	2.09	0.52
33:BH:136:GLN:H	33:BH:137:PRO:CD	2.16	0.52
35:BJ:81:ASP:C	35:BJ:83:ALA:N	2.62	0.52
39:BN:107:ALA:HB3	39:BN:110:LYS:CG	2.39	0.52
41:BQ:15:GLN:O	41:BQ:18:ARG:HD2	2.09	0.52
41:BQ:76:VAL:HG23	41:BQ:76:VAL:O	2.09	0.52
41:BQ:77:ASP:O	41:BQ:78:GLU:HB2	2.09	0.52
42:BR:9:LYS:HE3	46:BW:25:GLN:HE22	1.74	0.52
45:BU:45:HIS:ND1	45:BU:56:HIS:HB2	2.24	0.52
1:AA:41:G:H1'	1:AA:402:G:H22	1.73	0.52
1:AA:365:U:O2	1:AA:365:U:C2'	2.58	0.52
1:AA:715:A:H2'	1:AA:716:A:C8	2.44	0.52
1:AA:858:G:O6	1:AA:869:G:H3'	2.10	0.52
1:AA:940:C:H2'	1:AA:941:G:H8	1.75	0.52
1:AA:994:A:N3	1:AA:994:A:H2'	2.24	0.52
2:AV:56:C:H2'	2:AV:57:G:C8	2.45	0.52
6:AE:45:VAL:HB	6:AE:71:ILE:HD11	1.91	0.52
10:AI:4:GLN:OE1	10:AI:21:LYS:HE3	2.09	0.52
10:AI:59:LYS:C	10:AI:60:LEU:HD12	2.29	0.52
21:AT:30:PHE:O	21:AT:34:VAL:HG23	2.10	0.52
22:B0:371:A:H5''	22:B0:372:G:OP1	2.08	0.52
22:B0:401:A:H2'	22:B0:402:A:C8	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:588:U:C2	28:BC:74:LYS:CA	2.91	0.52
22:B0:973:A:H5''	22:B0:974:G:OP1	2.09	0.52
22:B0:1397:U:O2'	22:B0:1398:C:OP1	2.26	0.52
22:B0:1496:A:N6	26:BA:194:VAL:HG21	2.24	0.52
22:B0:2245:U:O5'	22:B0:2245:U:H6	1.92	0.52
22:B0:2378:A:O2'	38:BM:17:LYS:HD3	2.09	0.52
22:B0:2677:G:H22	22:B0:2731:G:H1'	1.73	0.52
23:B9:68:C:H2'	23:B9:69:G:H8	1.73	0.52
25:B3:96:GLU:HB3	25:B5:8:ILE:HA	1.90	0.52
26:BA:62:ARG:HH22	26:BA:149:LYS:NZ	2.07	0.52
27:BB:146:ILE:O	27:BB:155:VAL:HG23	2.08	0.52
29:BD:11:VAL:O	29:BD:11:VAL:HG22	2.09	0.52
34:BI:57:VAL:C	34:BI:58:LEU:HD12	2.30	0.52
39:BN:23:ASP:HA	39:BN:49:ILE:HG23	1.91	0.52
40:BO:64:ILE:HD12	40:BO:78:PHE:CE1	2.44	0.52
41:BQ:8:ARG:O	41:BQ:9:HIS:HB2	2.10	0.52
42:BR:43:ILE:HB	42:BR:60:THR:CG2	2.39	0.52
42:BR:68:LYS:HA	42:BR:68:LYS:HZ3	1.73	0.52
45:BU:70:VAL:HB	45:BU:71:LYS:HD2	1.91	0.52
49:B1:26:LYS:H	49:B1:26:LYS:CD	2.22	0.52
1:AA:98:A:H2'	1:AA:99:C:C6	2.43	0.52
1:AA:391:G:H21	1:AA:483:C:C1'	2.20	0.52
1:AA:533:A:O2'	1:AA:534:U:OP1	2.27	0.52
1:AA:734:G:H2'	1:AA:735:C:O4'	2.09	0.52
1:AA:1240:U:H3'	1:AA:1241:G:H8	1.73	0.52
2:AU:76:A:H1'	22:B0:2549:G:N7	2.24	0.52
2:AW:9:A:O2'	2:AW:45:G:H2'	2.08	0.52
4:AC:109:GLU:HB2	4:AC:143:LEU:CD2	2.39	0.52
5:AD:52:VAL:HG13	5:AD:53:GLN:NE2	2.25	0.52
7:AF:81:ASN:HB3	7:AF:84:VAL:HG12	1.92	0.52
9:AH:10:LEU:HD23	9:AH:10:LEU:C	2.30	0.52
12:AK:106:ILE:O	12:AK:106:ILE:HG23	2.09	0.52
14:AM:94:LEU:HD22	14:AM:94:LEU:N	2.24	0.52
16:AO:46:LYS:HD2	16:AO:46:LYS:N	2.23	0.52
20:AS:39:ILE:HA	20:AS:43:MET:HE3	1.92	0.52
22:B0:801:G:N3	28:BC:65:THR:OG1	2.35	0.52
22:B0:858:G:C2	22:B0:2268:A:H2'	2.44	0.52
22:B0:2391:G:H1'	22:B0:2429:G:H21	1.73	0.52
22:B0:2491:U:H2'	22:B0:2492:U:H5'	1.89	0.52
22:B0:2662:A:H2'	22:B0:2663:G:O4'	2.09	0.52
25:B3:44:PRO:C	25:B3:46:GLU:H	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B3:107:LYS:HG2	25:B3:111:GLU:OE2	2.10	0.52
26:BA:104:LEU:HD13	26:BA:105:ALA:N	2.23	0.52
26:BA:157:ALA:HA	26:BA:194:VAL:CG1	2.40	0.52
27:BB:81:GLU:O	27:BB:82:PHE:CB	2.53	0.52
28:BC:108:ILE:HG12	28:BC:181:ILE:HD13	1.90	0.52
28:BC:146:VAL:O	28:BC:149:ILE:HB	2.09	0.52
28:BC:180:LEU:O	28:BC:186:VAL:HG11	2.08	0.52
37:BL:23:ASN:C	37:BL:25:ALA:N	2.61	0.52
39:BN:49:ILE:HD13	39:BN:99:LEU:HD13	1.90	0.52
42:BR:28:ASN:HB3	42:BR:87:LEU:C	2.30	0.52
46:BW:40:SER:HA	46:BW:43:LEU:CD1	2.39	0.52
48:BZ:54:ILE:HD13	48:BZ:54:ILE:N	2.20	0.52
49:B1:34:GLU:HG2	49:B1:49:LYS:HA	1.91	0.52
1:AA:655:A:H2'	1:AA:656:G:O4'	2.10	0.52
1:AA:674:G:H2'	1:AA:675:A:C8	2.44	0.52
1:AA:713:G:H2'	1:AA:714:G:C8	2.44	0.52
1:AA:841:U:H5'	1:AA:848:C:O4'	2.09	0.52
1:AA:886:G:C4'	1:AA:915:A:H1'	2.39	0.52
1:AA:894:G:H2'	1:AA:895:G:C8	2.44	0.52
1:AA:1195:C:H3'	1:AA:1196:A:H5'	1.92	0.52
3:AB:73:ARG:N	3:AB:73:ARG:HD3	2.25	0.52
4:AC:187:GLU:HG3	4:AC:188:ALA:H	1.75	0.52
11:AJ:92:LEU:N	11:AJ:92:LEU:HD12	2.25	0.52
14:AM:75:SER:O	14:AM:79:LEU:HD22	2.09	0.52
17:AP:71:VAL:O	17:AP:75:ILE:HG13	2.09	0.52
22:B0:873:C:H4'	36:BK:64:TRP:CZ3	2.43	0.52
22:B0:1197:G:O2'	40:BO:7:VAL:HG23	2.09	0.52
22:B0:1218:G:H1	22:B0:1231:U:H3	1.57	0.52
22:B0:1251:C:O2'	22:B0:1252:G:H5''	2.10	0.52
22:B0:1424:G:P	26:BA:58:LYS:HA	2.49	0.52
22:B0:1579:A:P	26:BA:65:ASP:HA	2.48	0.52
22:B0:1669:A:H61	22:B0:1993:U:H3	1.58	0.52
22:B0:2065:C:H2'	22:B0:2066:C:C6	2.45	0.52
22:B0:2175:C:C6	22:B0:2175:C:C3'	2.93	0.52
22:B0:2439:A:H3'	22:B0:2600:A:OP1	2.10	0.52
22:B0:2484:G:H2'	22:B0:2485:G:H8	1.73	0.52
22:B0:2542:A:H4'	22:B0:2543:G:C8	2.43	0.52
24:B2:64:LEU:CD1	24:B2:160:VAL:HG11	2.40	0.52
25:B3:98:VAL:HB	25:B3:102:ASP:CB	2.39	0.52
26:BA:198:GLU:CG	26:BA:201:LEU:HD12	2.39	0.52
27:BB:104:VAL:O	27:BB:104:VAL:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:97:ASN:HD22	28:BC:100:MET:CE	2.23	0.52
28:BC:181:ILE:HG13	35:BJ:17:LYS:CG	2.40	0.52
28:BC:189:THR:O	28:BC:193:VAL:HG23	2.09	0.52
33:BH:36:LEU:H	33:BH:36:LEU:CD2	2.20	0.52
39:BN:2:ASN:ND2	39:BN:4:ILE:HG23	2.24	0.52
42:BR:30:ILE:HG12	42:BR:87:LEU:CD1	2.31	0.52
1:AA:1238:A:H1'	1:AA:1241:G:N2	2.25	0.52
1:AA:1288:A:H2'	1:AA:1289:A:O4'	2.09	0.52
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.44	0.52
1:AA:1429:A:H2'	1:AA:1430:A:H8	1.74	0.52
2:AW:3:G:C5'	22:B0:1880:U:H5''	2.40	0.52
5:AD:154:VAL:O	5:AD:158:LEU:HD23	2.10	0.52
14:AM:19:THR:O	14:AM:19:THR:HG22	2.10	0.52
20:AS:86:LYS:H	20:AS:86:LYS:CD	2.18	0.52
22:B0:58:G:H8	22:B0:58:G:OP2	1.93	0.52
22:B0:558:G:H2'	22:B0:559:G:C8	2.45	0.52
22:B0:586:A:O2'	28:BC:77:ILE:HA	2.09	0.52
22:B0:590:A:H2'	22:B0:591:U:O4'	2.09	0.52
22:B0:629:G:C4'	22:B0:638:G:H21	2.20	0.52
22:B0:1199:U:H2'	22:B0:1200:C:C6	2.44	0.52
22:B0:1421:G:C4	26:BA:148:GLY:CA	2.93	0.52
22:B0:1668:A:O2'	22:B0:1670:C:H5	1.92	0.52
22:B0:2064:C:H1'	22:B0:2450:A:N1	2.25	0.52
22:B0:2443:C:H2'	22:B0:2444:G:H8	1.74	0.52
22:B0:2484:G:C4'	36:BK:44:ARG:HD3	2.38	0.52
22:B0:2558:C:O2	22:B0:2558:C:C2'	2.57	0.52
22:B0:2568:U:H2'	22:B0:2569:G:C8	2.45	0.52
22:B0:2655:G:O2'	22:B0:2656:U:H5	1.92	0.52
22:B0:2770:G:H5'	27:BB:45:TYR:HB3	1.92	0.52
22:B0:2856:A:H2'	22:B0:2862:G:H1	1.75	0.52
23:B9:37:C:N4	23:B9:44:G:H1	2.08	0.52
26:BA:76:VAL:CG2	26:BA:94:LEU:HB3	2.39	0.52
27:BB:123:LYS:HA	27:BB:141:ARG:HH21	1.75	0.52
27:BB:172:VAL:CG1	27:BB:175:LEU:HD11	2.40	0.52
29:BD:79:ARG:HG2	29:BD:80:GLN:N	2.19	0.52
40:BO:116:LEU:HD23	40:BO:116:LEU:N	2.22	0.52
41:BQ:49:LYS:HZ3	41:BQ:49:LYS:N	2.07	0.52
48:BZ:31:LYS:HE2	48:BZ:47:TYR:CG	2.45	0.52
1:AA:269:C:H2'	1:AA:270:A:C8	2.44	0.52
1:AA:405:U:O4	1:AA:545:C:N3	2.43	0.52
1:AA:777:A:H2'	1:AA:778:G:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:U:P	10:AI:10:ARG:NH2	2.82	0.52
1:AA:1246:C:H2'	1:AA:1247:U:C6	2.45	0.52
1:AA:1257:A:O2'	1:AA:1258:G:P	2.68	0.52
2:AV:7:U:H5''	2:AV:8:U:OP1	2.10	0.52
2:AW:35:A:H2'	2:AW:36:A:C8	2.45	0.52
2:AW:70:C:H2'	2:AW:71:G:H8	1.75	0.52
3:AB:26:MET:O	3:AB:30:ILE:HG13	2.10	0.52
4:AC:107:LYS:HB3	4:AC:143:LEU:HD21	1.91	0.52
6:AE:132:PRO:HG2	6:AE:133:ILE:CD1	2.39	0.52
8:AG:129:ASN:O	8:AG:130:LYS:HB3	2.10	0.52
13:AL:56:LEU:H	13:AL:56:LEU:CD2	2.20	0.52
22:B0:845:A:H2'	22:B0:846:U:C6	2.44	0.52
22:B0:860:U:H2'	22:B0:861:A:C8	2.39	0.52
22:B0:979:A:O5'	22:B0:980:A:H5''	2.10	0.52
22:B0:990:A:H2	40:BO:46:TYR:HH	1.57	0.52
22:B0:1434:A:H2'	22:B0:1435:G:O4'	2.09	0.52
22:B0:1490:C:H5'	26:BA:160:TYR:CD1	2.44	0.52
22:B0:1901:A:H2'	22:B0:1902:C:C6	2.45	0.52
22:B0:2786:U:H2'	22:B0:2787:C:C6	2.45	0.52
23:B9:82:U:H2'	23:B9:83:G:C8	2.45	0.52
25:B5:26:MET:HB3	25:B5:38:VAL:HG11	1.91	0.52
26:BA:143:VAL:C	26:BA:151:GLY:HA2	2.30	0.52
27:BB:66:GLY:O	27:BB:70:LYS:HG2	2.09	0.52
27:BB:118:PHE:HA	27:BB:163:GLY:O	2.10	0.52
29:BD:59:ILE:HD13	29:BD:59:ILE:N	2.25	0.52
37:BL:63:ARG:NH1	37:BL:64:ARG:NE	2.54	0.52
41:BQ:88:ARG:NE	41:BQ:88:ARG:N	2.57	0.52
42:BR:12:ARG:HA	42:BR:12:ARG:HH11	1.73	0.52
48:BZ:27:LEU:HA	48:BZ:36:LYS:CG	2.39	0.52
48:BZ:27:LEU:HA	48:BZ:36:LYS:HG3	1.92	0.52
1:AA:402:G:O5'	1:AA:402:G:H8	1.93	0.52
1:AA:545:C:C5'	1:AA:549:C:H4'	2.36	0.52
1:AA:935:A:H2'	1:AA:936:C:C6	2.45	0.52
1:AA:975:A:H61	11:AJ:59:LYS:CE	2.22	0.52
1:AA:1266:G:N2	1:AA:1269:A:OP2	2.43	0.52
3:AB:17:HIS:CD2	3:AB:18:GLN:HE21	2.28	0.52
5:AD:12:ARG:HH21	5:AD:37:PRO:HB3	1.75	0.52
11:AJ:51:VAL:O	11:AJ:62:ARG:HA	2.09	0.52
15:AN:72:PHE:HA	15:AN:79:SER:HA	1.91	0.52
21:AT:8:LYS:HD3	21:AT:11:ILE:HD11	1.91	0.52
21:AT:77:ASN:O	21:AT:81:GLN:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:220:G:H4'	22:B0:234:U:H4'	1.92	0.52
22:B0:571:U:H5''	22:B0:572:A:OP1	2.10	0.52
22:B0:870:U:H2'	22:B0:871:U:O4'	2.09	0.52
22:B0:877:A:N1	22:B0:900:A:N1	2.58	0.52
22:B0:958:U:C5	36:BK:81:ARG:N	2.78	0.52
22:B0:1223:G:N2	22:B0:1225:G:H3'	2.25	0.52
22:B0:1421:G:O5'	22:B0:1421:G:H8	1.93	0.52
22:B0:2136:G:N3	22:B0:2136:G:C3'	2.71	0.52
22:B0:2175:C:H4'	24:B2:167:ASN:HD22	1.74	0.52
23:B9:11:C:H2'	23:B9:12:C:H5'	1.92	0.52
24:B2:189:GLU:O	24:B2:193:VAL:HG23	2.09	0.52
25:B5:57:ILE:HB	25:B5:118:GLU:HG2	1.92	0.52
27:BB:131:ASP:O	27:BB:132:ALA:HB3	2.10	0.52
28:BC:175:ILE:HB	28:BC:180:LEU:CD2	2.38	0.52
29:BD:136:ILE:N	29:BD:136:ILE:HD12	2.24	0.52
29:BD:149:ARG:HD2	29:BD:149:ARG:C	2.30	0.52
40:BO:39:ILE:O	40:BO:43:GLN:HG2	2.10	0.52
40:BO:106:THR:HA	40:BO:109:VAL:HG22	1.92	0.52
41:BQ:50:VAL:C	41:BQ:52:GLU:N	2.63	0.52
1:AA:188:C:H2'	1:AA:189:A:H4'	1.90	0.52
1:AA:420:U:N1	5:AD:39:GLN:NE2	2.58	0.52
1:AA:979:C:H3'	20:AS:5:LYS:HD2	1.92	0.52
1:AA:1102:A:H2'	1:AA:1103:C:C6	2.45	0.52
3:AB:96:LEU:HD21	3:AB:146:SER:OG	2.10	0.52
4:AC:34:SER:O	4:AC:38:VAL:HG13	2.09	0.52
5:AD:144:ILE:HD11	5:AD:158:LEU:HD21	1.92	0.52
6:AE:137:ARG:O	6:AE:140:ILE:HG13	2.10	0.52
7:AF:15:SER:O	7:AF:18:VAL:HG23	2.10	0.52
8:AG:21:LEU:HD12	8:AG:61:PHE:CE2	2.45	0.52
14:AM:97:ARG:HB3	14:AM:98:GLY:N	2.25	0.52
22:B0:307:G:N2	22:B0:330:A:N6	2.58	0.52
22:B0:368:A:O2'	22:B0:369:U:H5'	2.09	0.52
22:B0:635:C:H2'	22:B0:636:G:O4'	2.10	0.52
22:B0:973:A:H4'	22:B0:1186:G:N2	2.24	0.52
22:B0:1001:A:H2'	22:B0:1002:G:O4'	2.10	0.52
22:B0:1497:U:H2'	26:BA:61:TYR:HB3	1.90	0.52
22:B0:1755:A:H2'	22:B0:1756:G:H5'	1.91	0.52
22:B0:1771:C:H2'	22:B0:1772:A:H8	1.75	0.52
22:B0:2157:G:H4'	22:B0:2158:A:H4'	1.91	0.52
22:B0:2469:A:H2'	22:B0:2470:G:O4'	2.10	0.52
24:B2:110:PHE:HE1	24:B2:135:LEU:HD13	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B3:59:LYS:HD3	25:B3:116:GLU:OE2	2.10	0.52
28:BC:177:PRO:O	28:BC:180:LEU:HB2	2.10	0.52
33:BH:53:TYR:HB3	33:BH:121:LYS:O	2.10	0.52
37:BL:40:LYS:HG3	37:BL:41:ALA:H	1.74	0.52
45:BU:46:ALA:CB	45:BU:76:ARG:H	2.22	0.52
1:AA:279:A:P	1:AA:281:G:H5'	2.50	0.51
1:AA:924:C:H1'	1:AA:1399:C:N4	2.25	0.51
1:AA:1221:G:C2'	20:AS:1:PRO:H2	2.16	0.51
2:AV:16:U:C5'	2:AV:17:U:OP1	2.54	0.51
12:AK:92:ARG:O	12:AK:96:ILE:HG13	2.10	0.51
12:AK:119:GLY:C	12:AK:121:ARG:H	2.11	0.51
16:AO:59:VAL:HG11	22:B0:715:A:O4'	2.10	0.51
22:B0:476:G:N2	22:B0:479:A:C8	2.78	0.51
22:B0:540:G:H2'	22:B0:541:C:C6	2.45	0.51
22:B0:799:G:H3'	28:BC:57:LYS:CA	2.41	0.51
22:B0:872:U:H2'	22:B0:873:C:C6	2.45	0.51
22:B0:1416:G:C6	26:BA:94:LEU:HA	2.45	0.51
22:B0:1526:G:H21	22:B0:1545:A:H62	1.56	0.51
22:B0:1582:C:H41	26:BA:73:ILE:CG2	2.17	0.51
22:B0:2437:G:H1'	22:B0:2598:A:N1	2.24	0.51
22:B0:2511:U:H2'	22:B0:2578:G:H22	1.74	0.51
24:B2:50:ASP:OD2	24:B2:53:LYS:HG3	2.10	0.51
24:B2:73:ARG:HA	24:B2:92:GLU:OE2	2.10	0.51
28:BC:53:THR:CG2	28:BC:67:ARG:HD3	2.40	0.51
28:BC:90:GLN:HB3	35:BJ:27:LEU:HB2	1.91	0.51
32:BG:137:LEU:HD12	32:BG:138:VAL:H	1.75	0.51
33:BH:99:ARG:HH22	33:BH:102:GLU:CB	2.22	0.51
39:BN:1:SER:OG	39:BN:5:LYS:HE2	2.10	0.51
40:BO:57:ARG:HG2	40:BO:57:ARG:HH11	1.75	0.51
41:BQ:52:GLU:O	41:BQ:55:ILE:HG12	2.09	0.51
42:BR:39:THR:HG23	42:BR:40:LYS:N	2.24	0.51
42:BR:69:ARG:HB3	42:BR:69:ARG:NH1	2.24	0.51
43:BS:51:LEU:HB2	43:BS:53:GLN:NE2	2.19	0.51
1:AA:250:A:O2'	1:AA:251:G:P	2.67	0.51
1:AA:345:C:H5'	1:AA:346:G:C4	2.45	0.51
1:AA:404:G:H5'	1:AA:546:A:C2'	2.40	0.51
1:AA:559:A:H4'	1:AA:560:A:C5'	2.40	0.51
1:AA:588:G:H1	1:AA:651:C:N4	1.98	0.51
1:AA:763:G:H2'	1:AA:764:C:C6	2.46	0.51
1:AA:812:G:O2'	1:AA:813:U:H6	1.91	0.51
1:AA:915:A:C2'	1:AA:916:U:H5'	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.10	0.51
2:AV:20:G:C3'	2:AV:21:A:C5'	2.87	0.51
2:AW:7:U:H5''	2:AW:8:U:OP1	2.10	0.51
3:AB:23:ASN:ND2	3:AB:24:PRO:HD2	2.23	0.51
10:AI:5:TYR:CE2	10:AI:89:TYR:HA	2.45	0.51
11:AJ:54:SER:OG	11:AJ:58:ASN:HB3	2.10	0.51
15:AN:40:ARG:HG3	15:AN:40:ARG:HH11	1.75	0.51
16:AO:59:VAL:HG11	22:B0:715:A:C5'	2.40	0.51
17:AP:11:ALA:HB3	17:AP:14:ARG:HB3	1.91	0.51
19:AR:62:ARG:HG2	19:AR:67:LEU:HB2	1.92	0.51
21:AT:58:ASP:OD1	21:AT:75:LYS:HD2	2.11	0.51
22:B0:99:U:H5'	22:B0:102:U:OP2	2.11	0.51
22:B0:233:A:O2'	22:B0:234:U:H5'	2.11	0.51
22:B0:495:G:O2'	41:BQ:106:VAL:HG22	2.10	0.51
22:B0:527:C:H4'	22:B0:528:A:C5'	2.40	0.51
22:B0:589:U:H3	28:BC:74:LYS:CE	2.23	0.51
22:B0:589:U:C4	28:BC:74:LYS:HE3	2.46	0.51
22:B0:663:G:OP2	28:BC:88:ARG:HD2	2.10	0.51
22:B0:687:C:H2'	22:B0:688:U:O4'	2.10	0.51
22:B0:797:G:H2'	22:B0:798:G:C8	2.45	0.51
22:B0:1060:U:H1'	22:B0:1062:G:OP2	2.10	0.51
22:B0:1495:A:H2'	22:B0:1496:A:O5'	2.10	0.51
22:B0:1532:U:O5'	22:B0:1532:U:H6	1.92	0.51
22:B0:1580:A:C1'	26:BA:68:ARG:HB3	2.39	0.51
22:B0:1599:U:OP1	42:BR:61:LEU:HA	2.10	0.51
22:B0:2176:A:P	24:B2:165:ASP:HB2	2.50	0.51
22:B0:2235:G:H2'	22:B0:2236:U:C6	2.46	0.51
22:B0:2490:G:H4'	22:B0:2491:U:C5'	2.41	0.51
22:B0:2646:C:H2'	22:B0:2647:U:C6	2.45	0.51
22:B0:2678:C:C5'	27:BB:125:TRP:N	2.67	0.51
22:B0:2825:G:H2'	22:B0:2826:A:O4'	2.10	0.51
25:B5:57:ILE:HB	25:B5:118:GLU:CG	2.39	0.51
25:B5:98:VAL:HB	25:B5:102:ASP:HB2	1.93	0.51
26:BA:141:HIS:HE1	26:BA:194:VAL:HA	1.73	0.51
26:BA:141:HIS:NE2	26:BA:192:GLY:O	2.43	0.51
27:BB:16:THR:HG23	27:BB:18:ASP:O	2.10	0.51
29:BD:4:HIS:HB2	29:BD:96:TRP:CD1	2.45	0.51
29:BD:6:TYR:O	29:BD:11:VAL:HG12	2.11	0.51
31:BF:10:ALA:O	31:BF:11:ASN:HB2	2.09	0.51
32:BG:109:ALA:C	32:BG:111:THR:H	2.14	0.51
35:BJ:99:ASN:HD22	35:BJ:99:ASN:N	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BJ:108:ALA:HB3	35:BJ:126:ARG:CZ	2.41	0.51
39:BN:36:LYS:CD	39:BN:37:LYS:HG3	2.39	0.51
39:BN:64:SER:CA	39:BN:71:ARG:HG2	2.41	0.51
40:BO:26:ALA:HB3	40:BO:27:ARG:NH2	2.25	0.51
42:BR:26:LYS:N	42:BR:26:LYS:HD2	2.24	0.51
1:AA:509:A:O2'	1:AA:510:A:OP1	2.28	0.51
1:AA:782:A:H62	1:AA:800:G:H21	1.58	0.51
1:AA:957:U:H2'	1:AA:959:A:OP2	2.10	0.51
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.27	0.51
1:AA:1188:A:H2'	1:AA:1189:U:O4'	2.10	0.51
2:AU:35:A:H2'	2:AU:36:A:H8	1.74	0.51
3:AB:44:LYS:C	3:AB:47:PRO:HD2	2.30	0.51
3:AB:221:ARG:HH12	3:AB:229:ALA:HB3	1.74	0.51
5:AD:67:LEU:HD22	5:AD:67:LEU:H	1.75	0.51
5:AD:96:ARG:O	5:AD:100:VAL:HG23	2.10	0.51
6:AE:17:VAL:HG23	6:AE:33:THR:O	2.09	0.51
9:AH:62:LEU:N	9:AH:62:LEU:HD12	2.26	0.51
10:AI:27:ILE:HG12	10:AI:62:LEU:HB2	1.92	0.51
13:AL:109:ARG:NH1	13:AL:112:ALA:H	2.08	0.51
13:AL:109:ARG:CZ	13:AL:112:ALA:HB3	2.41	0.51
22:B0:636:G:H5''	22:B0:637:A:OP1	2.10	0.51
22:B0:738:G:H1'	22:B0:759:G:N2	2.25	0.51
22:B0:739:A:H4'	22:B0:1981:A:N1	2.25	0.51
22:B0:882:G:H2'	22:B0:883:G:C8	2.45	0.51
22:B0:1217:U:H3	22:B0:1232:G:H1	1.58	0.51
22:B0:1491:A:OP2	26:BA:176:ARG:CA	2.57	0.51
22:B0:1579:A:N3	22:B0:1579:A:H2'	2.24	0.51
22:B0:2032:G:H5'	22:B0:2033:A:OP1	2.10	0.51
22:B0:2043:C:H5'	22:B0:2779:U:O4	2.10	0.51
22:B0:2558:C:C2'	22:B0:2559:C:H5'	2.40	0.51
22:B0:2700:A:H3'	22:B0:2702:G:H5''	1.91	0.51
22:B0:2855:C:C3'	22:B0:2856:A:H5''	2.40	0.51
25:B3:96:GLU:HA	25:B5:8:ILE:CG2	2.40	0.51
25:B3:98:VAL:HG11	25:B3:106:LEU:HD11	1.92	0.51
25:B5:51:LYS:HA	25:B5:52:THR:HG22	1.93	0.51
28:BC:44:ARG:N	28:BC:90:GLN:HA	2.25	0.51
31:BF:7:ASP:HB2	31:BF:35:LYS:HG3	1.92	0.51
32:BG:92:PRO:HB3	32:BG:135:MET:HA	1.93	0.51
34:BI:8:LEU:HD23	34:BI:8:LEU:N	2.25	0.51
35:BJ:37:GLY:O	35:BJ:39:LYS:HD3	2.10	0.51
39:BN:71:ARG:O	39:BN:72:VAL:CB	2.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BS:64:ILE:HG22	43:BS:65:GLN:N	2.25	0.51
44:BT:29:ILE:C	44:BT:30:ILE:HD12	2.31	0.51
46:BW:42:LEU:O	46:BW:46:VAL:HG23	2.10	0.51
1:AA:24:U:H2'	1:AA:25:C:C6	2.46	0.51
1:AA:234:C:H2'	1:AA:235:C:H6	1.74	0.51
1:AA:421:U:C5	5:AD:43:ARG:HB3	2.46	0.51
1:AA:914:A:O2'	1:AA:915:A:H5'	2.11	0.51
1:AA:952:U:H2'	1:AA:953:G:C8	2.43	0.51
1:AA:975:A:C5'	1:AA:976:G:H5''	2.41	0.51
1:AA:1266:G:H2'	1:AA:1268:G:OP2	2.10	0.51
5:AD:146:GLU:CD	5:AD:146:GLU:H	2.14	0.51
8:AG:35:LYS:HA	8:AG:38:ALA:HB3	1.92	0.51
11:AJ:57:VAL:CG1	11:AJ:58:ASN:H	2.11	0.51
14:AM:72:ILE:O	14:AM:76:ILE:HG13	2.11	0.51
18:AQ:11:VAL:HG13	18:AQ:20:ILE:HG23	1.93	0.51
18:AQ:58:VAL:HG12	18:AQ:77:VAL:HA	1.91	0.51
22:B0:19:A:H2'	22:B0:20:C:C6	2.45	0.51
22:B0:599:A:H2'	22:B0:600:G:C8	2.45	0.51
22:B0:918:A:H2'	22:B0:919:U:O4'	2.10	0.51
22:B0:1412:G:H2'	22:B0:1413:U:C6	2.45	0.51
22:B0:1416:G:H22	26:BA:94:LEU:HD13	1.75	0.51
22:B0:1425:G:H21	22:B0:1574:C:N4	2.08	0.51
22:B0:1485:C:H2'	22:B0:1486:G:H8	1.74	0.51
22:B0:1500:A:O5'	22:B0:1500:A:H8	1.94	0.51
22:B0:1801:A:N6	22:B0:2223:G:O2'	2.44	0.51
22:B0:2263:C:OP2	45:BU:12:GLY:N	2.44	0.51
22:B0:2335:A:HO2'	22:B0:2336:A:H8	1.54	0.51
22:B0:2778:A:O2'	22:B0:2779:U:H5''	2.10	0.51
22:B0:2832:U:O2'	22:B0:2833:U:P	2.68	0.51
29:BD:147:ARG:NE	29:BD:147:ARG:HA	2.25	0.51
30:BE:162:ARG:HA	30:BE:162:ARG:NE	2.25	0.51
37:BL:49:GLU:HB2	37:BL:52:ILE:CG1	2.40	0.51
37:BL:78:LYS:HE2	37:BL:78:LYS:CA	2.39	0.51
39:BN:18:SER:O	39:BN:19:PHE:C	2.49	0.51
39:BN:72:VAL:HG13	39:BN:73:PHE:N	2.25	0.51
40:BO:31:TYR:HB2	40:BO:32:ARG:HH12	1.76	0.51
40:BO:106:THR:O	40:BO:110:GLU:HG2	2.10	0.51
41:BQ:11:ARG:H	41:BQ:11:ARG:CZ	2.23	0.51
41:BQ:45:VAL:O	41:BQ:46:LEU:HB3	2.11	0.51
41:BQ:75:PHE:H	41:BQ:104:THR:HB	1.76	0.51
42:BR:65:GLY:N	42:BR:77:ARG:NH2	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:37:HIS:CD2	48:BZ:39:ARG:HB2	2.46	0.51
1:AA:68:G:H1	1:AA:101:A:H61	1.58	0.51
1:AA:629:A:H2'	1:AA:630:A:C8	2.46	0.51
1:AA:812:G:O2'	1:AA:813:U:C6	2.64	0.51
2:AV:16:U:H1'	2:AV:18:G:OP1	2.10	0.51
3:AB:117:GLU:O	3:AB:121:GLN:HG3	2.10	0.51
4:AC:66:THR:HG22	4:AC:101:ASN:ND2	2.22	0.51
4:AC:93:ILE:HD12	4:AC:93:ILE:N	2.26	0.51
10:AI:16:ALA:HB1	10:AI:78:ILE:HG12	1.93	0.51
12:AK:14:GLN:HA	12:AK:76:TYR:O	2.10	0.51
22:B0:320:A:OP2	28:BC:130:LYS:HE3	2.10	0.51
22:B0:604:G:H2'	22:B0:605:G:C8	2.46	0.51
22:B0:686:U:H5'	22:B0:687:C:OP2	2.10	0.51
22:B0:807:U:H5'	22:B0:2445:G:H4'	1.93	0.51
22:B0:905:A:H2'	22:B0:906:U:H5'	1.91	0.51
22:B0:981:A:O2'	22:B0:2037:A:H5'	2.10	0.51
22:B0:1417:U:H5''	26:BA:100:ARG:HB2	1.93	0.51
22:B0:1430:G:H1	22:B0:1563:U:H3	1.58	0.51
22:B0:1464:G:C2'	22:B0:1465:U:H5'	2.41	0.51
22:B0:1577:C:H2'	22:B0:1578:U:O4'	2.11	0.51
22:B0:1579:A:P	26:BA:66:PHE:N	2.80	0.51
22:B0:1600:C:OP1	42:BR:62:VAL:HB	2.11	0.51
22:B0:1644:C:O2'	22:B0:1645:G:H5'	2.11	0.51
22:B0:1816:C:C2	26:BA:51:ARG:HG2	2.45	0.51
22:B0:1931:U:O2	22:B0:1931:U:C2'	2.56	0.51
22:B0:2074:U:O2'	22:B0:2075:U:H5''	2.10	0.51
22:B0:2076:U:C5'	22:B0:2238:G:H1	2.21	0.51
22:B0:2169:A:C5'	22:B0:2170:A:OP2	2.50	0.51
22:B0:2180:U:H5''	22:B0:2181:U:OP2	2.11	0.51
22:B0:2194:U:H2'	22:B0:2195:U:C6	2.46	0.51
22:B0:2198:A:O2'	22:B0:2199:A:C5'	2.59	0.51
22:B0:2238:G:H5'	22:B0:2239:G:OP1	2.11	0.51
22:B0:2263:C:C6	45:BU:11:ASN:HB2	2.45	0.51
22:B0:2458:G:C5'	22:B0:2459:A:OP1	2.55	0.51
22:B0:2472:G:H21	22:B0:2478:A:H62	1.54	0.51
28:BC:27:LEU:O	28:BC:30:GLN:HB3	2.11	0.51
29:BD:68:LYS:H	29:BD:68:LYS:CD	2.16	0.51
29:BD:114:ARG:HG3	29:BD:114:ARG:HH11	1.75	0.51
35:BJ:101:ILE:HD13	35:BJ:101:ILE:C	2.30	0.51
37:BL:38:LEU:N	37:BL:38:LEU:HD12	2.25	0.51
39:BN:25:VAL:HG13	39:BN:88:ARG:HD2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:12:ARG:HH11	42:BR:12:ARG:CA	2.24	0.51
42:BR:12:ARG:HH11	42:BR:12:ARG:CB	2.23	0.51
45:BU:45:HIS:CB	45:BU:79:ILE:HG21	2.27	0.51
1:AA:48:C:O2'	1:AA:49:U:OP1	2.27	0.51
1:AA:663:A:H61	1:AA:742:G:H1	1.57	0.51
1:AA:1399:C:H1'	1:AA:1401:G:C4	2.45	0.51
2:AV:29:A:H2'	2:AV:30:G:H8	1.76	0.51
4:AC:35:ASP:OD1	4:AC:56:ILE:HG21	2.10	0.51
7:AF:86:ARG:HB3	7:AF:86:ARG:NH1	2.25	0.51
17:AP:36:VAL:HG21	17:AP:57:ILE:HB	1.93	0.51
21:AT:28:ARG:HA	21:AT:31:ILE:CG2	2.41	0.51
22:B0:457:A:H1'	22:B0:459:U:C6	2.46	0.51
22:B0:610:C:O5'	22:B0:610:C:H6	1.94	0.51
22:B0:664:G:H4'	22:B0:940:G:O3'	2.11	0.51
22:B0:666:A:O2'	22:B0:667:U:H5'	2.10	0.51
22:B0:798:G:N1	22:B0:799:G:O6	2.44	0.51
22:B0:878:A:N1	22:B0:899:A:N1	2.59	0.51
22:B0:977:G:N2	22:B0:986:C:N3	2.59	0.51
22:B0:1186:G:N2	22:B0:1187:G:H1'	2.25	0.51
22:B0:1202:G:O4'	35:BJ:14:LYS:NZ	2.40	0.51
22:B0:1247:A:OP2	28:BC:91:ASP:OD2	2.28	0.51
22:B0:1258:U:H2'	22:B0:1259:G:H8	1.73	0.51
22:B0:1275:A:N6	22:B0:1296:G:H4'	2.25	0.51
22:B0:1296:G:H2'	22:B0:1297:C:C6	2.45	0.51
22:B0:1485:C:H2'	22:B0:1486:G:C8	2.46	0.51
22:B0:1631:G:H2'	22:B0:1633:G:OP2	2.10	0.51
22:B0:1791:A:N6	22:B0:1828:G:O2'	2.43	0.51
22:B0:1869:G:H2'	22:B0:1871:A:OP1	2.11	0.51
22:B0:2067:G:H5''	22:B0:2068:U:OP2	2.11	0.51
22:B0:2092:U:OP1	22:B0:2198:A:H2	1.94	0.51
22:B0:2296:U:H4'	22:B0:2297:A:OP1	2.11	0.51
22:B0:2323:G:N2	22:B0:2337:G:H5'	2.25	0.51
22:B0:2386:A:H2'	22:B0:2387:U:C6	2.46	0.51
22:B0:2598:A:C5	22:B0:2599:G:H1'	2.46	0.51
22:B0:2899:A:H61	33:BH:137:PRO:CA	2.22	0.51
23:B9:55:U:H4'	29:BD:24:VAL:HG11	1.91	0.51
27:BB:146:ILE:HG13	27:BB:155:VAL:HB	1.91	0.51
27:BB:180:VAL:HG23	27:BB:180:VAL:O	2.11	0.51
28:BC:96:VAL:HG22	28:BC:97:ASN:ND2	2.25	0.51
28:BC:154:ASP:CG	28:BC:155:GLU:H	2.14	0.51
29:BD:47:LYS:HB2	29:BD:47:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:48:LEU:HA	29:BD:51:ASN:OD1	2.10	0.51
29:BD:53:ALA:H	29:BD:56:LEU:HD23	1.76	0.51
30:BE:66:THR:O	30:BE:70:LEU:HG	2.10	0.51
31:BF:82:SER:OG	31:BF:94:ILE:HD11	2.09	0.51
33:BH:46:PRO:O	33:BH:47:HIS:HB2	2.11	0.51
33:BH:113:PRO:O	33:BH:115:GLY:N	2.41	0.51
35:BJ:36:LYS:O	35:BJ:37:GLY:C	2.49	0.51
35:BJ:72:ALA:O	35:BJ:105:ILE:HG12	2.09	0.51
36:BK:59:ARG:NH1	36:BK:59:ARG:HB3	2.25	0.51
36:BK:115:GLU:O	36:BK:119:LEU:HG	2.11	0.51
39:BN:23:ASP:C	39:BN:49:ILE:HG12	2.31	0.51
41:BQ:51:LEU:CA	41:BQ:105:VAL:HG11	2.36	0.51
41:BQ:57:ASN:HA	41:BQ:60:HIS:CE1	2.45	0.51
1:AA:97:G:H2'	1:AA:98:A:O4'	2.11	0.51
1:AA:146:G:H2'	1:AA:147:G:C8	2.46	0.51
1:AA:901:A:H2'	1:AA:902:G:O4'	2.10	0.51
1:AA:945:G:H5''	1:AA:1338:G:O6	2.11	0.51
1:AA:1065:U:O2'	1:AA:1066:C:H6	1.93	0.51
1:AA:1228:C:H2'	1:AA:1229:A:H8	1.75	0.51
1:AA:1266:G:N2	1:AA:1268:G:H3'	2.25	0.51
3:AB:36:LYS:CG	3:AB:37:VAL:H	2.17	0.51
4:AC:63:ILE:HG23	4:AC:65:VAL:HG23	1.93	0.51
6:AE:10:LEU:HD11	6:AE:38:VAL:HB	1.92	0.51
9:AH:20:ASN:HA	9:AH:64:TYR:CZ	2.46	0.51
10:AI:112:ARG:C	10:AI:112:ARG:HD3	2.31	0.51
11:AJ:17:LEU:HD12	11:AJ:18:ILE:HG13	1.92	0.51
22:B0:20:C:H2'	22:B0:21:A:C8	2.46	0.51
22:B0:79:C:H2'	22:B0:80:G:C8	2.46	0.51
22:B0:163:C:H4'	22:B0:164:C:H6	1.75	0.51
22:B0:163:C:C5'	22:B0:164:C:H5'	2.39	0.51
22:B0:221:A:O2'	22:B0:222:A:P	2.69	0.51
22:B0:589:U:C6	28:BC:47:LYS:HB2	2.45	0.51
22:B0:705:A:C2	22:B0:727:A:H1'	2.46	0.51
22:B0:918:A:C4'	23:B9:81:G:H4'	2.33	0.51
22:B0:1494:A:O3'	26:BA:140:VAL:HG11	2.11	0.51
22:B0:1582:C:H5	26:BA:73:ILE:HD13	1.76	0.51
22:B0:2127:G:O3'	22:B0:2165:C:C2'	2.45	0.51
22:B0:2648:G:H1'	22:B0:2673:G:N2	2.26	0.51
22:B0:2677:G:H3'	27:BB:125:TRP:HB2	1.91	0.51
22:B0:2779:U:O4'	22:B0:2781:A:H8	1.94	0.51
24:B2:29:LEU:HD11	24:B2:215:THR:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:46:ASN:OD1	24:B2:209:LYS:HD2	2.11	0.51
25:B5:69:ILE:HG22	25:B5:73:ARG:HD2	1.91	0.51
26:BA:144:GLU:HG2	26:BA:151:GLY:H	1.71	0.51
29:BD:47:LYS:C	29:BD:49:LEU:H	2.13	0.51
29:BD:94:ARG:HA	29:BD:94:ARG:CZ	2.41	0.51
32:BG:10:LEU:HG	32:BG:11:GLN:N	2.25	0.51
32:BG:81:LYS:O	32:BG:81:LYS:HG3	2.10	0.51
33:BH:34:ARG:HG3	33:BH:35:ARG:HH21	1.73	0.51
34:BI:19:VAL:HG11	34:BI:41:ILE:HG13	1.93	0.51
34:BI:49:ARG:HG3	34:BI:49:ARG:HH11	1.76	0.51
34:BI:51:LYS:HD2	34:BI:53:LYS:HD3	1.92	0.51
36:BK:35:ALA:HB1	36:BK:126:ILE:HD12	1.93	0.51
38:BM:88:LYS:HD2	38:BM:88:LYS:N	2.25	0.51
39:BN:24:THR:HA	39:BN:49:ILE:CG1	2.40	0.51
39:BN:50:ARG:O	39:BN:61:ARG:HB2	2.10	0.51
40:BO:59:LEU:HD23	40:BO:60:TRP:CZ3	2.45	0.51
41:BQ:48:LYS:HG3	41:BQ:49:LYS:NZ	2.25	0.51
41:BQ:74:ILE:N	41:BQ:74:ILE:CD1	2.74	0.51
49:B1:9:LYS:HD2	49:B1:9:LYS:N	2.23	0.51
1:AA:146:G:H2'	1:AA:147:G:H8	1.75	0.51
1:AA:177:G:C5'	21:AT:59:ARG:HH22	2.24	0.51
1:AA:250:A:H1'	1:AA:252:U:C5	2.45	0.51
3:AB:36:LYS:HG3	3:AB:37:VAL:N	2.14	0.51
3:AB:54:ALA:O	3:AB:58:LYS:HG2	2.10	0.51
4:AC:24:ASN:O	4:AC:28:PHE:HB2	2.11	0.51
4:AC:121:SER:O	4:AC:125:ARG:HG3	2.11	0.51
4:AC:129:PHE:HE2	4:AC:165:GLU:HB3	1.75	0.51
5:AD:204:SER:HB2	6:AE:111:ARG:CZ	2.41	0.51
6:AE:14:LEU:HD12	6:AE:14:LEU:N	2.25	0.51
6:AE:131:ASN:CB	6:AE:134:ASN:HD22	2.23	0.51
7:AF:75:GLU:HB3	7:AF:79:ARG:NH1	2.26	0.51
17:AP:18:GLN:O	17:AP:20:VAL:HG23	2.10	0.51
18:AQ:32:ILE:HD12	18:AQ:32:ILE:N	2.26	0.51
22:B0:92:U:H2'	22:B0:93:G:C8	2.46	0.51
22:B0:387:U:O2'	22:B0:388:G:P	2.69	0.51
22:B0:958:U:C5	36:BK:82:MET:N	2.78	0.51
22:B0:960:A:C3'	22:B0:2496:C:C6	2.94	0.51
22:B0:1044:C:H2'	22:B0:1045:C:H5''	1.92	0.51
22:B0:1352:U:H4'	22:B0:1571:A:O2'	2.10	0.51
22:B0:1470:A:H2'	22:B0:1471:C:C6	2.46	0.51
22:B0:1478:G:O2'	22:B0:1479:G:H5'	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1497:U:H4'	26:BA:83:ASP:OD2	2.11	0.51
22:B0:1524:C:O2'	22:B0:1525:G:H5'	2.10	0.51
22:B0:1588:A:H2'	22:B0:1589:A:O4'	2.11	0.51
22:B0:2154:A:O5'	22:B0:2155:U:OP1	2.29	0.51
26:BA:159:THR:O	26:BA:194:VAL:HG23	2.11	0.51
28:BC:102:ARG:O	28:BC:106:LYS:HD3	2.11	0.51
28:BC:112:LEU:HG	28:BC:118:LEU:HD21	1.91	0.51
28:BC:186:VAL:HG13	28:BC:187:VAL:N	2.25	0.51
29:BD:149:ARG:HD2	29:BD:150:GLY:N	2.26	0.51
30:BE:116:LEU:HD21	30:BE:120:ILE:HD13	1.92	0.51
33:BH:116:ARG:O	33:BH:116:ARG:HD3	2.11	0.51
34:BI:116:ILE:HD13	34:BI:116:ILE:C	2.31	0.51
37:BL:32:GLU:O	37:BL:114:GLU:HA	2.10	0.51
40:BO:109:VAL:O	40:BO:113:LYS:HD3	2.11	0.51
42:BR:62:VAL:CA	42:BR:81:LYS:HB3	2.37	0.51
44:BT:89:ILE:HD12	44:BT:89:ILE:N	2.26	0.51
47:BX:12:ALA:O	47:BX:15:ARG:HG2	2.11	0.51
1:AA:162:A:H2'	1:AA:163:C:O4'	2.09	0.51
1:AA:266:G:O2'	1:AA:268:U:OP2	2.29	0.51
1:AA:366:A:O2'	1:AA:367:U:P	2.69	0.51
1:AA:405:U:H4'	1:AA:499:A:C6	2.45	0.51
1:AA:419:C:C2'	5:AD:39:GLN:CB	2.89	0.51
1:AA:432:A:O2'	1:AA:433:G:H5'	2.11	0.51
1:AA:1429:A:O2'	22:B0:1704:C:H5'	2.11	0.51
2:AU:74:C:C2'	22:B0:2557:G:O5'	2.59	0.51
7:AF:68:GLN:OE1	7:AF:68:GLN:N	2.44	0.51
8:AG:29:LEU:C	8:AG:31:VAL:H	2.13	0.51
10:AI:64:ILE:HG21	10:AI:78:ILE:HG12	1.92	0.51
11:AJ:52:LEU:HA	11:AJ:62:ARG:H	1.75	0.51
12:AK:23:HIS:HB3	12:AK:30:ILE:CG2	2.40	0.51
14:AM:52:ILE:O	14:AM:56:ARG:HG3	2.11	0.51
17:AP:23:ASP:HB3	17:AP:26:ASN:ND2	2.26	0.51
17:AP:71:VAL:HG22	17:AP:75:ILE:HD11	1.92	0.51
22:B0:38:A:H2'	22:B0:39:G:C8	2.46	0.51
22:B0:58:G:OP1	42:BR:76:ARG:O	2.28	0.51
22:B0:70:G:H5''	22:B0:71:A:OP1	2.11	0.51
22:B0:120:U:H1'	22:B0:149:A:C5	2.45	0.51
22:B0:494:G:N9	41:BQ:6:LYS:HD2	2.26	0.51
22:B0:636:G:O2'	22:B0:638:G:H5'	2.11	0.51
22:B0:711:G:H2'	22:B0:712:G:C8	2.46	0.51
22:B0:828:U:H4'	22:B0:831:G:N1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:920:A:H2'	22:B0:921:C:O4'	2.10	0.51
22:B0:1417:U:H1'	22:B0:1587:A:O2'	2.10	0.51
22:B0:1436:G:H2'	22:B0:1437:C:O4'	2.10	0.51
22:B0:1463:G:H2'	22:B0:1464:G:C8	2.46	0.51
22:B0:1815:A:H4'	22:B0:1816:C:O5'	2.09	0.51
22:B0:2155:U:H3'	22:B0:2156:G:H5''	1.93	0.51
22:B0:2233:U:H2'	22:B0:2234:G:H8	1.76	0.51
22:B0:2553:G:H1'	22:B0:2583:G:H5'	1.93	0.51
22:B0:2595:G:N3	22:B0:2597:G:N7	2.59	0.51
23:B9:66:A:O4'	23:B9:108:A:N6	2.44	0.51
24:B2:62:THR:HG21	24:B2:191:LEU:HD23	1.93	0.51
24:B2:76:VAL:HA	24:B2:114:ILE:O	2.11	0.51
25:B3:49:GLU:HA	25:B3:51:LYS:NZ	2.25	0.51
26:BA:98:GLY:O	26:BA:99:GLU:CB	2.58	0.51
31:BF:30:LEU:H	31:BF:30:LEU:CD1	2.23	0.51
32:BG:75:ALA:O	32:BG:76:ALA:HB3	2.11	0.51
35:BJ:56:PRO:HB2	35:BJ:59:ARG:HB3	1.92	0.51
36:BK:7:THR:O	36:BK:72:PRO:HG2	2.10	0.51
37:BL:36:THR:N	37:BL:110:MET:SD	2.81	0.51
40:BO:38:VAL:O	40:BO:41:ALA:HB3	2.11	0.51
43:BS:51:LEU:HD12	43:BS:51:LEU:N	2.26	0.51
1:AA:419:C:O2'	5:AD:39:GLN:CG	2.59	0.51
1:AA:420:U:O4'	5:AD:39:GLN:HG2	2.11	0.51
1:AA:591:U:H2'	1:AA:592:G:H8	1.74	0.51
1:AA:1302:C:H5'	14:AM:16:ILE:HB	1.93	0.51
1:AA:1310:G:H1	1:AA:1327:C:H42	1.58	0.51
5:AD:33:ILE:HG13	5:AD:35:GLN:HG2	1.93	0.51
5:AD:47:LEU:O	5:AD:47:LEU:HD12	2.09	0.51
8:AG:110:ARG:HD3	8:AG:118:ARG:HA	1.93	0.51
22:B0:488:G:N2	41:BQ:9:HIS:CE1	2.79	0.51
22:B0:862:G:H2'	22:B0:863:A:O4'	2.11	0.51
22:B0:1632:A:N3	22:B0:1632:A:H2'	2.25	0.51
22:B0:2002:G:H2'	22:B0:2003:A:H8	1.76	0.51
22:B0:2005:A:H3'	22:B0:2006:C:H5	1.76	0.51
22:B0:2059:A:HO2'	22:B0:2060:A:P	2.33	0.51
22:B0:2106:U:H2'	22:B0:2107:G:C8	2.46	0.51
22:B0:2139:U:OP2	22:B0:2139:U:H3'	2.10	0.51
22:B0:2243:U:C5	22:B0:2437:G:N7	2.79	0.51
22:B0:2328:A:HO2'	45:BU:9:THR:HA	1.72	0.51
22:B0:2546:U:OP1	22:B0:2547:A:H5''	2.11	0.51
22:B0:2898:G:N7	33:BH:15:TRP:HB2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B9:13:G:H4'	23:B9:15:A:N6	2.25	0.51
23:B9:90:C:H2'	23:B9:91:C:O4'	2.11	0.51
27:BB:182:ALA:HB3	27:BB:186:LEU:HG	1.92	0.51
28:BC:9:GLN:HG2	28:BC:9:GLN:O	2.10	0.51
29:BD:71:LYS:NZ	29:BD:81:GLY:H	2.09	0.51
30:BE:14:VAL:HG13	30:BE:25:ILE:HD11	1.92	0.51
30:BE:25:ILE:HD13	30:BE:25:ILE:C	2.31	0.51
32:BG:132:ALA:O	32:BG:133:ARG:HG2	2.10	0.51
33:BH:136:GLN:N	33:BH:137:PRO:CD	2.74	0.51
37:BL:84:GLY:HA2	37:BL:86:ARG:N	2.25	0.51
38:BM:6:ALA:O	38:BM:10:ARG:HG3	2.11	0.51
40:BO:75:TYR:CG	40:BO:76:SER:N	2.78	0.51
41:BQ:60:HIS:O	41:BQ:61:ASN:HB3	2.11	0.51
45:BU:3:LYS:H	45:BU:3:LYS:HD3	1.74	0.51
49:B1:8:ILE:O	49:B1:24:LYS:HA	2.11	0.51
1:AA:105:G:N7	21:AT:4:LYS:HD3	2.25	0.50
1:AA:115:G:O2'	1:AA:116:A:H8	1.92	0.50
1:AA:545:C:O2'	1:AA:548:G:C2'	2.58	0.50
1:AA:792:A:H4'	1:AA:793:U:C5'	2.42	0.50
1:AA:848:C:H2'	1:AA:849:G:C8	2.47	0.50
1:AA:1157:A:H1'	1:AA:1181:G:C2	2.45	0.50
10:AI:34:LEU:H	10:AI:34:LEU:CD1	2.19	0.50
21:AT:38:ILE:HG21	21:AT:82:ILE:HA	1.92	0.50
22:B0:181:A:H2'	22:B0:182:A:C8	2.46	0.50
22:B0:320:A:H4'	22:B0:322:A:C8	2.46	0.50
22:B0:599:A:H2	28:BC:99:LYS:HD3	1.76	0.50
22:B0:655:A:C4'	22:B0:656:G:OP1	2.59	0.50
22:B0:959:A:O4'	36:BK:80:VAL:CG1	2.59	0.50
22:B0:1001:A:H61	22:B0:1154:G:H1'	1.76	0.50
22:B0:1020:A:H4'	22:B0:1021:A:O4'	2.11	0.50
22:B0:1116:G:H2'	22:B0:1117:C:C6	2.46	0.50
22:B0:1118:C:H2'	22:B0:1119:U:C6	2.47	0.50
22:B0:1202:G:H8	35:BJ:14:LYS:HZ3	1.58	0.50
22:B0:1324:G:H1	22:B0:1330:C:H42	1.59	0.50
22:B0:1697:G:N1	22:B0:1698:A:N6	2.59	0.50
22:B0:1900:A:H5'	22:B0:1970:A:OP1	2.11	0.50
22:B0:1923:U:H2'	22:B0:1924:C:H6	1.75	0.50
22:B0:2162:G:O5'	22:B0:2163:G:OP2	2.29	0.50
22:B0:2556:C:O5'	22:B0:2556:C:H6	1.93	0.50
22:B0:2877:G:H2'	22:B0:2878:U:O4'	2.11	0.50
25:B5:54:PHE:O	25:B5:103:ALA:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:67:LYS:NZ	26:BA:188:ARG:NH2	2.55	0.50
28:BC:87:ALA:O	28:BC:88:ARG:CB	2.58	0.50
28:BC:108:ILE:CD1	28:BC:180:LEU:HB3	2.41	0.50
29:BD:59:ILE:H	29:BD:59:ILE:CD1	2.24	0.50
30:BE:70:LEU:O	30:BE:74:MET:HG3	2.11	0.50
32:BG:108:ILE:CG1	32:BG:128:ILE:HD13	2.41	0.50
32:BG:121:ILE:HD13	32:BG:121:ILE:N	2.20	0.50
33:BH:100:VAL:HG13	33:BH:101:ILE:HG13	1.93	0.50
33:BH:110:PRO:HD2	33:BH:113:PRO:HB2	1.93	0.50
1:AA:153:C:H42	1:AA:168:G:H1	1.60	0.50
1:AA:247:G:H2'	1:AA:248:C:H6	1.75	0.50
1:AA:766:A:H2'	1:AA:767:A:O4'	2.11	0.50
1:AA:772:U:H2'	1:AA:773:G:C8	2.46	0.50
1:AA:967:C:N3	1:AA:968:A:N6	2.59	0.50
1:AA:1234:C:H2'	1:AA:1235:U:H6	1.76	0.50
2:AU:75:C:H5'	22:B0:2557:G:OP2	2.11	0.50
2:AW:18:G:H1'	2:AW:57:G:N2	2.27	0.50
3:AB:100:LEU:N	3:AB:100:LEU:HD12	2.27	0.50
4:AC:152:VAL:HG13	4:AC:195:ILE:CD1	2.41	0.50
6:AE:139:THR:O	6:AE:143:LEU:HG	2.11	0.50
8:AG:35:LYS:HE2	10:AI:42:THR:H	1.75	0.50
10:AI:7:GLY:HA3	10:AI:81:GLY:O	2.11	0.50
11:AJ:52:LEU:HD12	11:AJ:52:LEU:N	2.26	0.50
15:AN:66:THR:HB	15:AN:82:LYS:CE	2.42	0.50
16:AO:42:PHE:CZ	16:AO:52:ARG:HA	2.45	0.50
17:AP:57:ILE:HG12	17:AP:61:VAL:HG23	1.93	0.50
20:AS:6:LYS:HB3	20:AS:6:LYS:HZ2	1.77	0.50
21:AT:63:LYS:N	21:AT:63:LYS:HD2	2.25	0.50
22:B0:377:G:H1	22:B0:397:U:H3	1.58	0.50
22:B0:390:U:H1'	22:B0:411:G:O2'	2.12	0.50
22:B0:455:C:H2'	22:B0:472:A:C2	2.46	0.50
22:B0:479:A:H3'	22:B0:480:A:H5''	1.93	0.50
22:B0:549:G:H5''	22:B0:550:C:C5	2.45	0.50
22:B0:610:C:H2'	22:B0:611:C:C6	2.46	0.50
22:B0:629:G:H21	22:B0:639:U:H5''	1.76	0.50
22:B0:655:A:H5''	22:B0:656:G:OP1	2.11	0.50
22:B0:696:G:H1	22:B0:766:U:H3	1.58	0.50
22:B0:866:A:N3	22:B0:912:C:H1'	2.26	0.50
22:B0:977:G:H1	22:B0:986:C:H42	1.59	0.50
22:B0:982:C:O2'	22:B0:983:A:H5''	2.11	0.50
22:B0:1154:G:O5'	22:B0:1154:G:H8	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1423:A:C2	22:B0:1576:U:H1'	2.47	0.50
22:B0:1587:A:H2'	22:B0:1588:A:C8	2.45	0.50
22:B0:1872:A:H2	22:B0:2412:A:H5'	1.76	0.50
22:B0:2099:U:H2'	22:B0:2100:G:C8	2.46	0.50
22:B0:2123:G:C4'	22:B0:2124:G:O5'	2.60	0.50
22:B0:2180:U:O2	22:B0:2180:U:H2'	2.11	0.50
22:B0:2208:C:H2'	22:B0:2209:G:H8	1.75	0.50
22:B0:2291:U:H2'	22:B0:2292:U:C6	2.46	0.50
22:B0:2292:U:H2'	22:B0:2293:G:H8	1.76	0.50
22:B0:2680:U:C5'	27:BB:114:LYS:HE2	2.29	0.50
22:B0:2816:G:H4'	48:BZ:51:ARG:NH2	2.23	0.50
23:B9:91:C:O5'	23:B9:91:C:H6	1.95	0.50
24:B2:160:VAL:O	24:B2:160:VAL:HG13	2.11	0.50
25:B3:51:LYS:HG3	25:B3:52:THR:N	2.27	0.50
29:BD:65:LEU:H	29:BD:88:VAL:CG2	2.24	0.50
30:BE:131:VAL:C	30:BE:132:LEU:HD12	2.31	0.50
39:BN:47:ILE:HA	39:BN:63:ILE:O	2.12	0.50
42:BR:95:PHE:O	42:BR:96:VAL:C	2.49	0.50
1:AA:220:G:O2'	1:AA:221:C:H5'	2.11	0.50
1:AA:328:C:O2'	1:AA:329:A:P	2.69	0.50
1:AA:545:C:H4'	1:AA:549:C:H5'	1.92	0.50
1:AA:654:G:N1	1:AA:753:A:H1'	2.26	0.50
1:AA:688:G:O2'	1:AA:689:C:H5'	2.11	0.50
1:AA:976:G:H22	1:AA:1362:A:H5''	1.75	0.50
1:AA:1468:A:H3'	1:AA:1469:C:C6	2.46	0.50
1:AA:1493:A:C2	2:AU:37:G:H4'	2.47	0.50
4:AC:107:LYS:HB3	4:AC:143:LEU:CD2	2.41	0.50
5:AD:89:LEU:O	5:AD:93:LEU:HD13	2.11	0.50
7:AF:6:ILE:HD12	7:AF:89:VAL:HG12	1.92	0.50
19:AR:41:SER:HA	19:AR:44:THR:CG2	2.40	0.50
22:B0:588:U:H5'	28:BC:43:THR:HG23	1.93	0.50
22:B0:664:G:O2'	22:B0:665:U:H5'	2.11	0.50
22:B0:1204:A:N1	22:B0:1241:A:N1	2.60	0.50
22:B0:1248:G:H1'	40:BO:2:ARG:HD2	1.94	0.50
22:B0:1275:A:H61	22:B0:1296:G:H4'	1.76	0.50
22:B0:1416:G:O2'	22:B0:1587:A:N3	2.41	0.50
22:B0:1488:G:C6	26:BA:159:THR:HB	2.47	0.50
22:B0:1601:G:H2'	22:B0:1602:U:O4'	2.11	0.50
22:B0:1783:A:N1	22:B0:2587:A:H2'	2.26	0.50
22:B0:2143:C:O2'	22:B0:2144:G:P	2.69	0.50
22:B0:2756:U:C2'	22:B0:2757:A:H5''	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:188:ARG:O	26:BA:189:ALA:HB2	2.11	0.50
26:BA:241:LYS:C	26:BA:243:PRO:HD2	2.30	0.50
28:BC:74:LYS:C	28:BC:82:GLY:H	2.14	0.50
31:BF:94:ILE:HG22	31:BF:99:ILE:CD1	2.41	0.50
34:BI:58:LEU:HD12	34:BI:58:LEU:N	2.27	0.50
35:BJ:90:VAL:HG13	35:BJ:90:VAL:O	2.11	0.50
35:BJ:103:ILE:HD12	35:BJ:105:ILE:CG2	2.41	0.50
37:BL:53:THR:C	37:BL:55:ALA:H	2.15	0.50
38:BM:97:PHE:HE2	38:BM:101:GLY:HA3	1.76	0.50
39:BN:65:ASN:N	39:BN:71:ARG:HG2	2.26	0.50
42:BR:50:LEU:HD13	46:BW:26:PHE:CD2	2.46	0.50
45:BU:71:LYS:HD2	45:BU:71:LYS:N	2.17	0.50
47:BX:50:VAL:O	47:BX:54:VAL:HG22	2.11	0.50
1:AA:185:U:H2'	1:AA:186:C:C6	2.47	0.50
1:AA:242:G:C2'	1:AA:243:A:H5'	2.41	0.50
1:AA:404:G:H5''	1:AA:547:A:OP2	2.11	0.50
1:AA:424:G:C2	5:AD:39:GLN:NE2	2.79	0.50
1:AA:508:U:H4'	1:AA:509:A:C8	2.45	0.50
1:AA:927:G:H2'	1:AA:928:G:C8	2.47	0.50
1:AA:1263:C:H2'	1:AA:1264:U:C6	2.45	0.50
2:AU:7:U:H5''	2:AU:8:U:OP1	2.11	0.50
2:AU:36:A:C3'	2:AU:37:G:H5''	2.41	0.50
2:AU:75:C:OP2	22:B0:2557:G:C8	2.65	0.50
2:AV:69:U:H2'	2:AV:70:C:C6	2.46	0.50
3:AB:116:LEU:CB	3:AB:140:LEU:HD21	2.42	0.50
3:AB:147:LEU:HA	3:AB:150:ILE:HG22	1.92	0.50
4:AC:107:LYS:HD2	4:AC:107:LYS:N	2.26	0.50
4:AC:128:MET:HB2	4:AC:131:ARG:HD3	1.93	0.50
6:AE:156:ARG:HG2	9:AH:70:VAL:HA	1.91	0.50
10:AI:84:ARG:HA	10:AI:87:MET:SD	2.50	0.50
11:AJ:89:ARG:HB3	11:AJ:89:ARG:HH11	1.72	0.50
15:AN:80:ARG:O	15:AN:84:ARG:HG2	2.12	0.50
22:B0:347:A:H8	22:B0:347:A:O5'	1.95	0.50
22:B0:960:A:C2	22:B0:2497:A:O4'	2.63	0.50
22:B0:1202:G:H5''	35:BJ:10:GLU:HG3	1.94	0.50
22:B0:1299:G:H5'	22:B0:1301:A:H1'	1.94	0.50
22:B0:1455:U:H2'	37:BL:63:ARG:NH1	2.27	0.50
22:B0:1921:G:H2'	22:B0:1922:G:H8	1.77	0.50
22:B0:1942:C:H6	22:B0:1942:C:O5'	1.94	0.50
22:B0:2176:A:H5'	24:B2:166:LYS:CA	2.41	0.50
22:B0:2470:G:H2'	22:B0:2471:A:C8	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2506:U:N3	22:B0:2583:G:N2	2.59	0.50
22:B0:2857:G:O2'	22:B0:2859:A:N7	2.40	0.50
22:B0:2898:G:N7	33:BH:15:TRP:CB	2.74	0.50
25:B5:57:ILE:HG23	25:B5:92:ALA:CB	2.42	0.50
25:B5:66:VAL:O	25:B5:70:LYS:HG3	2.11	0.50
27:BB:207:VAL:HG23	27:BB:208:LYS:HG2	1.92	0.50
28:BC:157:LEU:H	28:BC:157:LEU:CD2	2.25	0.50
28:BC:178:VAL:CG1	28:BC:179:SER:H	2.11	0.50
29:BD:135:ILE:C	29:BD:136:ILE:HD12	2.31	0.50
30:BE:86:LEU:HD22	30:BE:147:LEU:HD23	1.92	0.50
31:BF:6:LEU:HD22	31:BF:14:SER:HA	1.92	0.50
31:BF:7:ASP:OD1	31:BF:35:LYS:HA	2.11	0.50
33:BH:72:LYS:HA	33:BH:72:LYS:HZ2	1.76	0.50
35:BJ:96:LYS:HD3	35:BJ:96:LYS:N	2.27	0.50
36:BK:7:THR:OG1	36:BK:8:LYS:HD3	2.11	0.50
36:BK:92:TRP:CE3	36:BK:92:TRP:N	2.80	0.50
37:BL:41:ALA:CB	37:BL:44:LEU:HB2	2.41	0.50
37:BL:53:THR:C	37:BL:55:ALA:N	2.64	0.50
37:BL:89:SER:O	37:BL:90:ARG:HD2	2.11	0.50
39:BN:9:GLN:HA	39:BN:14:GLN:HE22	1.76	0.50
39:BN:63:ILE:HG12	39:BN:74:GLN:HG2	1.93	0.50
40:BO:82:LEU:HD21	40:BO:89:ILE:HG22	1.93	0.50
49:B1:26:LYS:N	49:B1:26:LYS:HD2	2.27	0.50
1:AA:891:U:O2'	1:AA:892:A:H5'	2.11	0.50
1:AA:976:G:N2	1:AA:1362:A:H5''	2.27	0.50
1:AA:1241:G:C2	1:AA:1242:G:O4'	2.64	0.50
1:AA:1248:A:C2	1:AA:1289:A:N6	2.79	0.50
1:AA:1268:G:N3	1:AA:1326:U:O2'	2.39	0.50
1:AA:1302:C:O4'	14:AM:26:LYS:NZ	2.44	0.50
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.46	0.50
1:AA:1408:A:H2'	1:AA:1409:C:C6	2.46	0.50
2:AW:3:G:H2'	2:AW:4:G:C8	2.46	0.50
7:AF:42:TRP:HB3	7:AF:45:ARG:HD2	1.94	0.50
8:AG:35:LYS:HE2	10:AI:42:THR:N	2.26	0.50
16:AO:59:VAL:HG13	16:AO:60:SER:N	2.27	0.50
18:AQ:37:ILE:HD12	18:AQ:39:ARG:NH1	2.27	0.50
22:B0:85:G:O2'	22:B0:86:G:H5'	2.12	0.50
22:B0:404:A:H1'	22:B0:406:G:C5	2.46	0.50
22:B0:801:G:H1	28:BC:72:SER:CB	2.25	0.50
22:B0:924:G:H5'	45:BU:22:VAL:HG11	1.93	0.50
22:B0:1213:A:N1	22:B0:1237:A:H1'	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1235:G:H2'	22:B0:1236:G:O4'	2.12	0.50
22:B0:1550:C:H2'	22:B0:1551:A:C8	2.46	0.50
22:B0:1801:A:N6	22:B0:2223:G:H1'	2.26	0.50
22:B0:2894:U:C6	33:BH:9:GLU:HB2	2.46	0.50
23:B9:101:A:H2'	23:B9:102:G:C8	2.47	0.50
29:BD:166:ARG:HA	29:BD:166:ARG:HE	1.77	0.50
33:BH:15:TRP:CE3	33:BH:15:TRP:N	2.80	0.50
33:BH:37:ARG:HA	33:BH:50:THR:HG21	1.94	0.50
36:BK:112:LEU:C	36:BK:112:LEU:HD22	2.31	0.50
40:BO:12:ARG:HB3	40:BO:12:ARG:HH11	1.75	0.50
42:BR:63:VAL:HG22	42:BR:64:LYS:H	1.76	0.50
43:BS:42:LYS:HD2	43:BS:48:VAL:HB	1.94	0.50
45:BU:33:GLY:HA3	45:BU:67:LYS:HD2	1.93	0.50
1:AA:340:U:OP1	34:BI:97:THR:HG21	2.11	0.50
1:AA:718:A:C8	12:AK:117:HIS:HA	2.46	0.50
1:AA:1441:A:H4'	1:AA:1442:G:C5	2.46	0.50
2:AU:16:U:C5'	2:AU:17:U:OP1	2.56	0.50
2:AU:58:A:C4'	2:AU:59:U:OP1	2.44	0.50
2:AW:70:C:H2'	2:AW:71:G:C8	2.47	0.50
5:AD:57:LYS:HB3	5:AD:199:ILE:HG13	1.93	0.50
7:AF:14:GLN:NE2	7:AF:17:GLN:HB2	2.27	0.50
12:AK:120:CYS:O	12:AK:121:ARG:C	2.49	0.50
17:AP:12:LYS:H	17:AP:12:LYS:CD	2.23	0.50
22:B0:40:U:H2'	22:B0:41:C:C6	2.46	0.50
22:B0:669:G:N2	28:BC:74:LYS:CB	2.69	0.50
22:B0:1011:G:O2'	22:B0:1012:U:P	2.70	0.50
22:B0:1059:G:H2'	22:B0:1060:U:C6	2.47	0.50
22:B0:1405:U:H2'	22:B0:1406:U:C6	2.47	0.50
22:B0:1493:A:C4	26:BA:131:MET:HE1	2.46	0.50
22:B0:1497:U:H1'	26:BA:83:ASP:HB2	1.92	0.50
22:B0:2160:C:H6	22:B0:2161:C:O3'	1.94	0.50
22:B0:2198:A:O2'	22:B0:2199:A:P	2.69	0.50
22:B0:2287:A:O2'	22:B0:2288:A:P	2.69	0.50
22:B0:2296:U:C4'	22:B0:2297:A:OP1	2.60	0.50
22:B0:2745:C:H2'	22:B0:2746:U:C6	2.46	0.50
27:BB:5:VAL:CG2	27:BB:202:ILE:HG22	2.41	0.50
27:BB:131:ASP:OD1	27:BB:132:ALA:N	2.45	0.50
33:BH:16:TYR:HB2	33:BH:52:ASP:OD2	2.11	0.50
33:BH:99:ARG:HH22	33:BH:102:GLU:HB3	1.77	0.50
40:BO:34:ALA:C	40:BO:36:GLN:H	2.15	0.50
40:BO:70:GLN:C	40:BO:71:ASN:HD22	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BR:75:GLY:O	42:BR:76:ARG:C	2.50	0.50
42:BR:95:PHE:N	42:BR:95:PHE:CD1	2.79	0.50
44:BT:73:LYS:NZ	44:BT:94:ALA:HB2	2.27	0.50
47:BX:16:LEU:HD22	47:BX:16:LEU:N	2.26	0.50
49:B1:10:LEU:N	49:B1:10:LEU:HD23	2.26	0.50
1:AA:346:G:C2'	1:AA:347:G:H5'	2.42	0.50
1:AA:1101:A:O2'	1:AA:1102:A:O4'	2.24	0.50
1:AA:1383:C:H2'	1:AA:1384:C:C6	2.47	0.50
2:AW:55:U:O2	2:AW:55:U:C2'	2.59	0.50
3:AB:96:LEU:HD22	3:AB:96:LEU:N	2.26	0.50
4:AC:129:PHE:CE2	4:AC:152:VAL:HB	2.46	0.50
11:AJ:22:THR:O	11:AJ:26:VAL:HG23	2.12	0.50
13:AL:98:ARG:HG2	13:AL:103:CYS:SG	2.51	0.50
16:AO:38:LEU:HD12	16:AO:58:MET:SD	2.52	0.50
21:AT:56:ILE:O	21:AT:60:GLN:HG3	2.12	0.50
22:B0:18:U:H2'	22:B0:19:A:H8	1.77	0.50
22:B0:301:G:H4'	22:B0:302:C:H5''	1.94	0.50
22:B0:358:U:H2'	22:B0:359:G:C8	2.46	0.50
22:B0:673:C:OP2	28:BC:65:THR:HG21	2.12	0.50
22:B0:731:C:H2'	22:B0:732:C:C6	2.43	0.50
22:B0:958:U:H3'	36:BK:80:VAL:CB	2.41	0.50
22:B0:958:U:OP1	36:BK:82:MET:C	2.50	0.50
22:B0:1344:U:H5''	22:B0:1345:C:OP2	2.12	0.50
22:B0:1416:G:O6	26:BA:93:VAL:HG23	2.11	0.50
22:B0:1421:G:O4'	26:BA:146:LYS:HD3	2.12	0.50
22:B0:1490:C:H4'	26:BA:162:GLN:H	1.77	0.50
22:B0:1496:A:H62	26:BA:194:VAL:CG1	2.24	0.50
22:B0:2004:G:H2'	22:B0:2005:A:C8	2.47	0.50
22:B0:2698:U:H2'	22:B0:2699:C:C6	2.47	0.50
26:BA:40:GLY:HA2	26:BA:45:ASN:HD22	1.77	0.50
26:BA:152:GLN:HB3	26:BA:155:ARG:NH2	2.27	0.50
27:BB:22:ILE:HG12	27:BB:190:LYS:HZ2	1.75	0.50
28:BC:159:LEU:O	28:BC:161:ALA:N	2.45	0.50
30:BE:57:TYR:HD1	30:BE:57:TYR:H	1.59	0.50
30:BE:85:LYS:HD3	30:BE:131:VAL:HG12	1.94	0.50
32:BG:123:ALA:HA	32:BG:126:ARG:HG2	1.93	0.50
33:BH:105:VAL:HG22	33:BH:105:VAL:O	2.11	0.50
36:BK:59:ARG:HB3	36:BK:59:ARG:HH11	1.77	0.50
40:BO:49:ARG:HG3	40:BO:50:ARG:H	1.76	0.50
42:BR:43:ILE:HG21	42:BR:83:ALA:HB3	1.93	0.50
46:BW:31:GLN:HG2	46:BW:38:GLN:CG	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:177:G:H5''	21:AT:59:ARG:NH2	2.26	0.50
1:AA:572:A:H1'	1:AA:917:G:H1'	1.93	0.50
1:AA:580:C:O2'	16:AO:57:ARG:NE	2.44	0.50
1:AA:813:U:H2'	1:AA:814:A:H8	1.76	0.50
1:AA:1009:U:H5''	15:AN:64:ARG:NH1	2.27	0.50
1:AA:1089:G:N2	1:AA:1167:A:N6	2.59	0.50
1:AA:1289:A:H2'	1:AA:1290:G:O4'	2.12	0.50
1:AA:1313:U:H2'	1:AA:1314:C:O4'	2.11	0.50
1:AA:1330:U:OP1	14:AM:21:ILE:O	2.29	0.50
1:AA:1346:A:O2'	1:AA:1347:G:P	2.70	0.50
2:AU:60:C:H5''	2:AU:61:C:OP2	2.11	0.50
4:AC:100:ILE:HD13	4:AC:100:ILE:C	2.32	0.50
6:AE:156:ARG:HG3	9:AH:68:LYS:HZ1	1.77	0.50
8:AG:147:ASN:C	8:AG:149:ALA:H	2.15	0.50
10:AI:27:ILE:N	10:AI:34:LEU:HD11	2.17	0.50
10:AI:34:LEU:HD12	10:AI:34:LEU:N	2.21	0.50
10:AI:119:LYS:C	10:AI:121:ARG:N	2.64	0.50
14:AM:97:ARG:HD3	14:AM:99:GLN:OE1	2.12	0.50
22:B0:28:A:H62	22:B0:512:G:H1'	1.75	0.50
22:B0:48:G:O2'	22:B0:49:A:H5''	2.12	0.50
22:B0:119:A:H5'	22:B0:120:U:OP1	2.12	0.50
22:B0:120:U:H4'	22:B0:121:G:C5'	2.42	0.50
22:B0:383:C:O2	22:B0:391:A:N1	2.45	0.50
22:B0:825:A:C4'	35:BJ:57:LEU:HD21	2.42	0.50
22:B0:978:G:H4'	22:B0:1002:G:O2'	2.12	0.50
22:B0:1219:U:H2'	22:B0:1220:G:H8	1.77	0.50
22:B0:1342:A:O2'	22:B0:1343:G:P	2.69	0.50
22:B0:1417:U:O2	26:BA:97:ASP:O	2.30	0.50
22:B0:1500:A:H61	26:BA:155:ARG:C	2.14	0.50
22:B0:1931:U:H2'	22:B0:1932:A:C5'	2.38	0.50
22:B0:2121:G:H5''	22:B0:2122:U:OP1	2.11	0.50
22:B0:2129:C:H5'	22:B0:2130:U:OP2	2.12	0.50
22:B0:2643:G:O3'	27:BB:158:GLY:HA2	2.12	0.50
22:B0:2772:C:OP1	27:BB:169:ARG:HB3	2.12	0.50
22:B0:2879:A:O2'	22:B0:2881:U:H5	1.94	0.50
22:B0:2886:A:H2'	22:B0:2887:A:C8	2.46	0.50
27:BB:9:VAL:HG22	27:BB:28:GLU:HG3	1.93	0.50
27:BB:184:ARG:O	27:BB:186:LEU:HG	2.11	0.50
29:BD:7:TYR:HA	29:BD:11:VAL:HG12	1.94	0.50
32:BG:11:GLN:HE21	32:BG:55:PRO:HB3	1.75	0.50
32:BG:85:ILE:HD13	32:BG:85:ILE:C	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:16:TYR:CE1	33:BH:35:ARG:HB3	2.47	0.50
33:BH:54:ILE:HG12	33:BH:122:LEU:HB2	1.93	0.50
36:BK:20:LEU:H	36:BK:20:LEU:CD1	2.25	0.50
36:BK:95:LEU:HD12	36:BK:95:LEU:N	2.27	0.50
39:BN:43:GLU:HG3	39:BN:44:GLY:N	2.27	0.50
42:BR:7:LEU:HD12	42:BR:7:LEU:N	2.27	0.50
1:AA:9:G:H2'	1:AA:10:A:C8	2.47	0.50
1:AA:417:G:C2	1:AA:427:U:O2	2.65	0.50
1:AA:705:G:H2'	1:AA:706:A:C8	2.47	0.50
1:AA:860:A:H2'	1:AA:861:G:O4'	2.11	0.50
1:AA:1129:C:H5''	1:AA:1139:G:O6	2.12	0.50
1:AA:1242:G:O2'	1:AA:1243:C:H5'	2.12	0.50
1:AA:1420:U:H2'	1:AA:1421:G:H8	1.76	0.50
4:AC:110:LEU:O	4:AC:201:ILE:HG21	2.12	0.50
5:AD:12:ARG:NH2	5:AD:37:PRO:HB3	2.26	0.50
10:AI:11:ARG:NH1	10:AI:106:ASP:HB3	2.27	0.50
11:AJ:80:THR:HG22	11:AJ:81:GLU:N	2.27	0.50
13:AL:85:ARG:NH1	13:AL:87:LYS:HA	2.27	0.50
18:AQ:6:THR:C	18:AQ:7:LEU:HD12	2.32	0.50
20:AS:41:PRO:O	20:AS:44:ILE:HG22	2.11	0.50
21:AT:10:ALA:O	21:AT:14:GLU:HG2	2.12	0.50
22:B0:126:A:H4'	22:B0:128:C:C5	2.46	0.50
22:B0:431:U:H2'	22:B0:432:A:H5'	1.93	0.50
22:B0:582:A:H2'	22:B0:583:G:C8	2.47	0.50
22:B0:800:A:C8	22:B0:802:A:O4'	2.64	0.50
22:B0:919:U:H2'	22:B0:920:A:C8	2.47	0.50
22:B0:960:A:H3'	22:B0:2496:C:C5'	2.42	0.50
22:B0:960:A:C5'	22:B0:2496:C:H6	2.25	0.50
22:B0:987:C:H2'	22:B0:988:A:O4'	2.12	0.50
22:B0:1001:A:H61	22:B0:1154:G:C2'	2.25	0.50
22:B0:1202:G:H5''	35:BJ:10:GLU:CG	2.42	0.50
22:B0:1395:A:H4'	22:B0:1397:U:C5	2.47	0.50
22:B0:1703:G:H2'	22:B0:1704:C:C6	2.47	0.50
22:B0:1996:C:OP1	27:BB:139:SER:HB2	2.12	0.50
22:B0:2125:G:OP1	22:B0:2172:U:H5	1.94	0.50
22:B0:2161:C:C4	24:B2:6:ARG:HB3	2.46	0.50
22:B0:2214:C:H2'	22:B0:2215:C:H5'	1.92	0.50
22:B0:2344:U:H5''	22:B0:2373:G:H4'	1.94	0.50
22:B0:2463:C:H2'	22:B0:2464:G:H8	1.77	0.50
22:B0:2848:G:OP2	39:BN:95:LYS:HD2	2.12	0.50
30:BE:86:LEU:HD13	30:BE:132:LEU:HD13	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BI:42:THR:HG23	34:BI:42:THR:O	2.11	0.50
35:BJ:85:VAL:HG22	35:BJ:85:VAL:O	2.12	0.50
37:BL:99:LYS:HB3	48:BZ:52:LYS:HD2	1.94	0.50
40:BO:3:VAL:HG13	40:BO:3:VAL:O	2.12	0.50
40:BO:53:LYS:O	40:BO:54:ARG:HB2	2.11	0.50
41:BQ:76:VAL:HG12	41:BQ:102:HIS:O	2.12	0.50
43:BS:13:LEU:HD11	43:BS:70:ALA:HB2	1.92	0.50
45:BU:70:VAL:HG23	45:BU:71:LYS:N	2.27	0.50
46:BW:55:THR:O	46:BW:59:GLU:HG3	2.12	0.50
49:B1:6:GLU:C	49:B1:26:LYS:HA	2.32	0.50
1:AA:340:U:H2'	1:AA:341:C:C6	2.47	0.49
1:AA:722:G:O2'	1:AA:723:U:H5''	2.12	0.49
1:AA:1372:U:H2'	1:AA:1373:G:O4'	2.12	0.49
2:AV:55:U:O2	2:AV:55:U:H3'	2.11	0.49
5:AD:97:LEU:O	5:AD:101:VAL:HG23	2.12	0.49
7:AF:37:HIS:HB2	7:AF:63:ASN:OD1	2.12	0.49
7:AF:39:LEU:C	7:AF:39:LEU:HD13	2.33	0.49
22:B0:336:C:H2'	22:B0:337:C:C6	2.47	0.49
22:B0:489:G:H2'	22:B0:490:C:C6	2.47	0.49
22:B0:527:C:N4	22:B0:2781:A:C6	2.80	0.49
22:B0:808:G:O2'	22:B0:809:G:H5'	2.11	0.49
22:B0:856:G:H4'	45:BU:54:ARG:NE	2.26	0.49
22:B0:871:U:H4'	36:BK:16:ARG:HE	1.77	0.49
22:B0:926:G:O2'	22:B0:928:A:OP1	2.19	0.49
22:B0:1221:C:H2'	22:B0:1222:U:C6	2.46	0.49
22:B0:1314:C:O5'	22:B0:1314:C:H6	1.94	0.49
22:B0:1407:G:H2'	22:B0:1408:G:C8	2.46	0.49
22:B0:1678:A:H2'	22:B0:1679:A:C8	2.46	0.49
22:B0:1837:C:H1'	22:B0:1904:G:N2	2.27	0.49
22:B0:2596:U:H2'	22:B0:2597:G:H5'	1.94	0.49
22:B0:2677:G:H2'	27:BB:125:TRP:HB3	1.93	0.49
25:B5:90:ALA:C	25:B5:92:ALA:H	2.16	0.49
28:BC:45:ALA:HB3	28:BC:89:PRO:HB3	1.93	0.49
29:BD:16:MET:O	29:BD:16:MET:HG2	2.11	0.49
35:BJ:9:ALA:O	35:BJ:10:GLU:HB2	2.12	0.49
35:BJ:45:GLY:O	35:BJ:46:VAL:C	2.51	0.49
35:BJ:94:THR:N	35:BJ:96:LYS:HE2	2.27	0.49
35:BJ:124:GLY:O	35:BJ:125:LEU:CB	2.60	0.49
35:BJ:134:ALA:O	35:BJ:136:GLU:N	2.45	0.49
35:BJ:134:ALA:C	35:BJ:135:ILE:HD13	2.32	0.49
36:BK:65:ILE:HD12	36:BK:102:LEU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:54:ARG:N	40:BO:57:ARG:HG3	2.23	0.49
40:BO:99:VAL:HG13	40:BO:100:PHE:HD1	1.76	0.49
45:BU:9:THR:HG22	45:BU:10:ARG:N	2.27	0.49
1:AA:293:G:C2	1:AA:305:G:H1'	2.47	0.49
1:AA:560:A:C4	1:AA:566:G:H1'	2.47	0.49
1:AA:939:G:H2'	1:AA:940:C:C6	2.47	0.49
1:AA:1097:C:H1'	1:AA:1167:A:C2	2.47	0.49
1:AA:1268:G:H22	1:AA:1311:A:H2	1.58	0.49
1:AA:1343:G:O2'	1:AA:1344:C:H5'	2.11	0.49
2:AV:60:C:H5''	2:AV:61:C:OP2	2.12	0.49
3:AB:133:ALA:O	3:AB:137:THR:HG23	2.12	0.49
5:AD:144:ILE:HD12	5:AD:177:MET:HE2	1.93	0.49
10:AI:18:VAL:HG11	10:AI:82:ILE:HA	1.94	0.49
11:AJ:67:ILE:HG23	11:AJ:67:ILE:O	2.13	0.49
12:AK:16:SER:HA	12:AK:78:ILE:HA	1.94	0.49
13:AL:49:ARG:HB3	13:AL:65:TYR:HE1	1.77	0.49
18:AQ:35:LYS:HD2	18:AQ:35:LYS:O	2.12	0.49
22:B0:474:G:O2'	22:B0:475:C:P	2.70	0.49
22:B0:759:G:H2'	22:B0:760:G:H8	1.75	0.49
22:B0:857:G:H4'	45:BU:71:LYS:HZ1	1.77	0.49
22:B0:1116:G:H2'	22:B0:1117:C:H6	1.76	0.49
22:B0:1302:A:O2'	22:B0:1303:G:OP1	2.18	0.49
22:B0:1820:U:O4	26:BA:227:VAL:HG21	2.12	0.49
22:B0:1838:C:H5''	22:B0:1839:G:OP1	2.13	0.49
22:B0:2143:C:O2'	22:B0:2144:G:O5'	2.29	0.49
22:B0:2152:G:OP1	22:B0:2153:C:N3	2.45	0.49
22:B0:2559:C:O2'	22:B0:2560:A:H5'	2.12	0.49
25:B3:20:VAL:HA	25:B3:23:ILE:CG1	2.42	0.49
28:BC:44:ARG:HA	28:BC:90:GLN:CA	2.42	0.49
28:BC:53:THR:HG21	28:BC:67:ARG:HD3	1.94	0.49
28:BC:137:LYS:O	28:BC:141:MET:HB2	2.12	0.49
28:BC:157:LEU:HD23	28:BC:157:LEU:N	2.27	0.49
29:BD:106:ALA:HB1	29:BD:136:ILE:O	2.11	0.49
29:BD:111:ARG:HD2	29:BD:112:ASP:H	1.77	0.49
30:BE:76:ILE:HD13	30:BE:76:ILE:C	2.33	0.49
37:BL:10:LEU:H	37:BL:10:LEU:HD12	1.77	0.49
37:BL:52:ILE:O	37:BL:53:THR:HB	2.12	0.49
39:BN:34:GLY:C	39:BN:36:LYS:H	2.15	0.49
40:BO:11:ALA:HA	40:BO:14:LYS:CE	2.36	0.49
45:BU:54:ARG:HG3	45:BU:55:ASP:N	2.27	0.49
46:BW:33:ALA:O	46:BW:34:SER:CB	2.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BX:40:THR:O	47:BX:44:ARG:HG3	2.12	0.49
1:AA:665:A:O4'	1:AA:733:G:H1'	2.12	0.49
1:AA:893:C:H5''	1:AA:1416:G:OP1	2.12	0.49
1:AA:913:A:O2'	1:AA:914:A:P	2.71	0.49
7:AF:9:MET:HB2	7:AF:85:ILE:HG23	1.94	0.49
8:AG:112:ASP:CG	8:AG:118:ARG:HG2	2.33	0.49
12:AK:73:VAL:CG1	12:AK:78:ILE:HD12	2.43	0.49
22:B0:326:G:H2'	22:B0:327:G:H8	1.77	0.49
22:B0:478:A:H1'	43:BS:32:LYS:HZ1	1.77	0.49
22:B0:662:G:H3'	28:BC:88:ARG:HG3	1.93	0.49
22:B0:684:G:H2'	22:B0:685:A:H5''	1.95	0.49
22:B0:844:A:H2'	22:B0:845:A:O4'	2.12	0.49
22:B0:848:C:H1'	22:B0:934:U:H1'	1.94	0.49
22:B0:857:G:H5'	45:BU:71:LYS:HG3	1.94	0.49
22:B0:858:G:H1'	22:B0:2269:G:H4'	1.94	0.49
22:B0:996:A:H5''	40:BO:92:LYS:HD3	1.94	0.49
22:B0:1022:G:O5'	22:B0:1023:U:OP1	2.30	0.49
22:B0:1580:A:H2'	22:B0:1581:A:C5'	2.42	0.49
22:B0:2542:A:C4'	22:B0:2543:G:H5'	2.36	0.49
23:B9:25:U:H4'	23:B9:26:C:H5	1.77	0.49
23:B9:32:U:H5''	29:BD:8:LYS:HZ1	1.75	0.49
24:B2:43:VAL:O	24:B2:171:HIS:HA	2.12	0.49
26:BA:122:ALA:N	26:BA:129:LEU:HD11	2.28	0.49
27:BB:29:VAL:HG23	27:BB:29:VAL:O	2.12	0.49
27:BB:36:GLN:HB2	27:BB:79:LEU:HD23	1.94	0.49
29:BD:97:GLU:C	29:BD:99:PHE:H	2.14	0.49
33:BH:25:LEU:HD22	33:BH:26:GLY:N	2.26	0.49
36:BK:65:ILE:HG23	36:BK:68:PHE:CZ	2.47	0.49
41:BQ:47:VAL:HB	41:BQ:103:ILE:HD13	1.94	0.49
1:AA:389:A:H2'	1:AA:390:U:H5'	1.95	0.49
1:AA:402:G:H1	1:AA:403:C:H41	1.60	0.49
1:AA:501:C:H2'	1:AA:502:A:C8	2.48	0.49
1:AA:689:C:H1'	1:AA:704:A:H2	1.75	0.49
1:AA:976:G:N2	1:AA:1363:A:OP1	2.46	0.49
1:AA:1401:G:C2	1:AA:1504:G:N2	2.80	0.49
1:AA:1405:G:O2'	1:AA:1518:A:H4'	2.12	0.49
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.76	0.49
1:AA:1442:G:H3'	1:AA:1442:G:N3	2.26	0.49
1:AA:1473:G:H2'	1:AA:1474:U:C6	2.48	0.49
3:AB:162:VAL:HG12	3:AB:163:ILE:N	2.27	0.49
4:AC:190:THR:HG22	4:AC:191:THR:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:30:MET:O	8:AG:32:ASP:N	2.46	0.49
10:AI:56:MET:O	10:AI:58:GLU:N	2.44	0.49
12:AK:43:TRP:HZ3	12:AK:45:THR:HG1	1.59	0.49
15:AN:40:ARG:O	15:AN:44:VAL:HG23	2.13	0.49
16:AO:55:LEU:O	16:AO:59:VAL:HG12	2.12	0.49
17:AP:19:VAL:O	17:AP:19:VAL:HG13	2.12	0.49
22:B0:269:C:H2'	22:B0:271:G:OP1	2.11	0.49
22:B0:300:A:H2'	22:B0:335:C:C5'	2.43	0.49
22:B0:467:G:O2'	22:B0:468:G:H5'	2.13	0.49
22:B0:492:A:C8	41:BQ:9:HIS:HB3	2.47	0.49
22:B0:800:A:H5'	28:BC:53:THR:HB	1.93	0.49
22:B0:807:U:H4'	22:B0:2445:G:C4'	2.40	0.49
22:B0:918:A:N6	22:B0:2268:A:H8	2.09	0.49
22:B0:960:A:C2'	22:B0:2496:C:H5''	2.42	0.49
22:B0:1048:A:H2'	22:B0:1049:C:C6	2.47	0.49
22:B0:1203:U:H5	35:BJ:10:GLU:HG2	1.77	0.49
22:B0:1319:C:O2'	22:B0:1320:C:H5'	2.11	0.49
22:B0:1347:A:P	22:B0:1382:G:H22	2.35	0.49
22:B0:1419:A:H62	22:B0:1579:A:N6	2.06	0.49
22:B0:1493:A:C2	26:BA:131:MET:HE1	2.47	0.49
22:B0:1593:G:O2'	22:B0:1594:U:P	2.70	0.49
22:B0:1996:C:N4	27:BB:136:ASN:O	2.46	0.49
22:B0:2127:G:OP2	22:B0:2128:G:OP2	2.30	0.49
22:B0:2586:U:O2'	22:B0:2587:A:H5'	2.13	0.49
25:B5:107:LYS:HG3	25:B5:117:VAL:HB	1.94	0.49
26:BA:244:VAL:HG23	26:BA:244:VAL:O	2.13	0.49
27:BB:26:VAL:O	27:BB:27:ILE:HD13	2.12	0.49
27:BB:79:LEU:HD22	27:BB:79:LEU:N	2.20	0.49
29:BD:48:LEU:HA	29:BD:51:ASN:ND2	2.27	0.49
32:BG:74:PRO:O	32:BG:75:ALA:HB3	2.12	0.49
33:BH:32:LEU:HB3	33:BH:54:ILE:CD1	2.42	0.49
34:BI:5:GLN:O	34:BI:5:GLN:HG2	2.13	0.49
40:BO:48:ASP:HA	40:BO:50:ARG:NH1	2.26	0.49
40:BO:56:PHE:C	40:BO:58:GLN:N	2.66	0.49
41:BQ:88:ARG:HH12	41:BQ:92:ARG:CB	2.21	0.49
42:BR:36:LYS:HD3	42:BR:36:LYS:N	2.17	0.49
1:AA:35:G:N2	1:AA:550:G:N2	2.60	0.49
1:AA:226:G:O2'	1:AA:227:G:H5'	2.12	0.49
1:AA:576:C:H5''	1:AA:577:G:OP2	2.12	0.49
1:AA:1120:C:H2'	1:AA:1121:U:C6	2.48	0.49
1:AA:1145:A:O2'	1:AA:1146:A:C8	2.63	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1167:A:H2'	1:AA:1167:A:N3	2.27	0.49
1:AA:1464:U:H2'	1:AA:1465:A:C8	2.48	0.49
3:AB:71:THR:HG23	3:AB:93:HIS:O	2.12	0.49
5:AD:96:ARG:NH1	5:AD:133:SER:HA	2.27	0.49
11:AJ:56:HIS:CD2	11:AJ:57:VAL:HG23	2.48	0.49
17:AP:14:ARG:HB2	17:AP:14:ARG:CZ	2.42	0.49
17:AP:34:GLU:OE2	17:AP:56:ARG:HD3	2.12	0.49
17:AP:67:ILE:HD13	17:AP:67:ILE:N	2.19	0.49
20:AS:46:LEU:HD12	20:AS:46:LEU:N	2.27	0.49
22:B0:191:A:H2'	22:B0:192:C:C6	2.48	0.49
22:B0:453:A:H4'	22:B0:457:A:C6	2.47	0.49
22:B0:834:G:H21	22:B0:2358:A:H61	1.59	0.49
22:B0:873:C:H2'	22:B0:874:G:C8	2.47	0.49
22:B0:1054:A:C1'	25:B3:89:SER:HG	2.25	0.49
22:B0:1142:A:C4'	22:B0:1143:A:OP1	2.60	0.49
22:B0:1227:G:H2'	22:B0:1228:G:C8	2.46	0.49
22:B0:1416:G:H1	26:BA:94:LEU:C	2.16	0.49
22:B0:1478:G:C2'	22:B0:1479:G:H5'	2.43	0.49
22:B0:1487:G:H3'	26:BA:197:ALA:O	2.12	0.49
22:B0:2067:G:H1'	22:B0:2444:G:H1	1.77	0.49
22:B0:2176:A:OP2	24:B2:165:ASP:HB2	2.13	0.49
22:B0:2263:C:C5'	45:BU:11:ASN:H	2.26	0.49
22:B0:2346:A:H5''	22:B0:2347:C:OP2	2.13	0.49
22:B0:2445:G:H2'	22:B0:2446:G:C8	2.47	0.49
22:B0:2479:U:H2'	22:B0:2480:C:H5'	1.93	0.49
26:BA:71:ASP:CB	26:BA:118:GLY:HA3	2.42	0.49
29:BD:16:MET:HE1	29:BD:24:VAL:HA	1.93	0.49
30:BE:120:ILE:HD13	30:BE:120:ILE:N	2.24	0.49
33:BH:70:THR:O	33:BH:70:THR:HG22	2.12	0.49
36:BK:92:TRP:N	36:BK:92:TRP:HE3	2.10	0.49
37:BL:49:GLU:HB2	37:BL:52:ILE:CD1	2.42	0.49
40:BO:113:LYS:HD2	40:BO:113:LYS:N	2.28	0.49
42:BR:57:VAL:HG23	42:BR:57:VAL:O	2.12	0.49
44:BT:17:SER:O	44:BT:21:ARG:HG3	2.13	0.49
49:B1:13:SER:HA	49:B1:19:PHE:CD1	2.47	0.49
1:AA:118:U:O4	1:AA:289:G:H4'	2.12	0.49
1:AA:197:A:O2'	1:AA:198:G:O5'	2.29	0.49
1:AA:427:U:P	5:AD:12:ARG:HH22	2.35	0.49
1:AA:818:G:H3'	1:AA:819:A:C5'	2.42	0.49
1:AA:888:G:H5'	1:AA:1489:G:H4'	1.94	0.49
1:AA:915:A:H2'	1:AA:916:U:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1117:A:C1'	10:AI:107:ALA:HB2	2.42	0.49
2:AV:3:G:H2'	2:AV:4:G:C8	2.48	0.49
3:AB:91:VAL:HG11	3:AB:95:TRP:HD1	1.77	0.49
6:AE:12:GLU:OE1	6:AE:12:GLU:N	2.46	0.49
7:AF:61:LEU:HD12	7:AF:61:LEU:N	2.28	0.49
10:AI:105:ARG:CG	10:AI:106:ASP:H	2.17	0.49
16:AO:38:LEU:O	16:AO:41:HIS:HB3	2.13	0.49
16:AO:69:LEU:CD1	16:AO:76:ARG:HD2	2.42	0.49
20:AS:49:ALA:HB1	20:AS:56:HIS:HB3	1.93	0.49
22:B0:414:C:H2'	22:B0:415:A:C8	2.47	0.49
22:B0:799:G:C4	28:BC:56:GLY:HA3	2.46	0.49
22:B0:955:U:H4'	22:B0:2276:G:O2'	2.13	0.49
22:B0:999:U:H2'	22:B0:1000:A:H8	1.77	0.49
22:B0:1069:A:N1	22:B0:2474:U:O2'	2.46	0.49
22:B0:1171:G:H1	22:B0:1178:C:N4	2.11	0.49
22:B0:1286:A:O2'	22:B0:1288:G:OP2	2.31	0.49
22:B0:1300:G:H4'	22:B0:1301:A:C5'	2.42	0.49
22:B0:1582:C:C2'	26:BA:96:LYS:HB2	2.32	0.49
22:B0:1607:C:N3	22:B0:1611:C:C4	2.81	0.49
22:B0:2075:U:H3'	22:B0:2238:G:C6	2.47	0.49
22:B0:2433:A:O2'	22:B0:2434:A:P	2.70	0.49
22:B0:2449:U:O2	22:B0:2449:U:H2'	2.13	0.49
22:B0:2690:U:H5	22:B0:2719:G:H21	1.61	0.49
22:B0:2782:G:O2'	22:B0:2783:U:H5'	2.12	0.49
22:B0:2863:C:H2'	22:B0:2864:G:H8	1.78	0.49
25:B5:81:LYS:HG2	25:B5:82:GLU:OE2	2.12	0.49
27:BB:125:TRP:O	27:BB:126:ASN:CB	2.60	0.49
27:BB:133:THR:HA	27:BB:136:ASN:HD22	1.76	0.49
28:BC:3:LEU:HD13	28:BC:17:THR:O	2.12	0.49
28:BC:32:VAL:HG22	28:BC:32:VAL:O	2.12	0.49
33:BH:108:MET:N	33:BH:108:MET:SD	2.84	0.49
37:BL:38:LEU:C	37:BL:40:LYS:N	2.66	0.49
37:BL:96:ARG:NH2	37:BL:114:GLU:HG3	2.28	0.49
38:BM:14:ALA:HA	38:BM:15:ARG:NH1	2.27	0.49
38:BM:40:ILE:HD13	38:BM:40:ILE:C	2.32	0.49
41:BQ:83:LYS:HD2	41:BQ:83:LYS:C	2.33	0.49
42:BR:48:GLN:NE2	42:BR:55:VAL:HG22	2.27	0.49
45:BU:78:PHE:O	45:BU:79:ILE:HB	2.12	0.49
1:AA:29:U:O2'	1:AA:30:U:H5'	2.13	0.49
1:AA:50:A:O2'	1:AA:52:C:C6	2.66	0.49
1:AA:731:G:OP1	1:AA:766:A:H1'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:831:A:H2'	1:AA:832:G:H8	1.76	0.49
1:AA:922:G:N2	1:AA:1396:A:H1'	2.27	0.49
1:AA:1290:G:H2'	1:AA:1290:G:N3	2.28	0.49
4:AC:26:LYS:HD2	4:AC:26:LYS:C	2.33	0.49
5:AD:54:LEU:HA	5:AD:202:LEU:HD22	1.95	0.49
5:AD:56:GLU:O	5:AD:59:LYS:HG2	2.12	0.49
7:AF:77:THR:HG23	7:AF:78:PHE:CD1	2.44	0.49
10:AI:18:VAL:HG11	10:AI:82:ILE:HG12	1.94	0.49
10:AI:95:SER:O	10:AI:99:LYS:HE2	2.13	0.49
10:AI:118:ARG:HH12	10:AI:124:PRO:HB3	1.77	0.49
22:B0:591:U:H2'	22:B0:592:A:C8	2.46	0.49
22:B0:625:G:O2'	22:B0:626:A:H5'	2.12	0.49
22:B0:680:C:C2	22:B0:798:G:N2	2.81	0.49
22:B0:804:A:H2'	22:B0:806:C:C5	2.47	0.49
22:B0:956:G:H1'	22:B0:2250:G:C6	2.48	0.49
22:B0:996:A:OP2	40:BO:53:LYS:HD3	2.11	0.49
22:B0:1194:A:O2'	22:B0:1195:G:H5'	2.12	0.49
22:B0:1273:U:O2'	22:B0:1274:A:OP1	2.25	0.49
22:B0:1486:G:OP2	26:BA:196:ASN:ND2	2.46	0.49
22:B0:1490:C:H2'	22:B0:1490:C:O2	2.11	0.49
22:B0:1495:A:C8	26:BA:190:THR:HA	2.48	0.49
22:B0:1600:C:H4'	42:BR:64:LYS:NZ	2.28	0.49
22:B0:1832:C:H2'	22:B0:1833:C:H4'	1.95	0.49
22:B0:1869:G:H2'	22:B0:1871:A:OP2	2.12	0.49
22:B0:2039:U:H2'	22:B0:2040:G:C8	2.47	0.49
22:B0:2127:G:C3'	22:B0:2166:U:C5'	2.86	0.49
22:B0:2238:G:H4'	22:B0:2239:G:O5'	2.11	0.49
22:B0:2260:C:H2'	22:B0:2261:C:C6	2.47	0.49
22:B0:2347:C:N3	22:B0:2371:G:N2	2.61	0.49
22:B0:2723:C:H2'	22:B0:2724:U:O4'	2.12	0.49
26:BA:62:ARG:HH21	26:BA:150:GLY:C	2.15	0.49
30:BE:71:LEU:O	30:BE:75:VAL:HG23	2.12	0.49
33:BH:36:LEU:HG	33:BH:118:MET:HG3	1.95	0.49
39:BN:52:ARG:HG2	39:BN:53:GLY:N	2.28	0.49
39:BN:63:ILE:HD11	39:BN:74:GLN:NE2	2.22	0.49
39:BN:91:VAL:O	39:BN:92:ARG:HG2	2.12	0.49
40:BO:91:ARG:HG2	40:BO:91:ARG:HH11	1.77	0.49
41:BQ:39:THR:O	41:BQ:41:LYS:HG3	2.13	0.49
41:BQ:49:LYS:HA	41:BQ:49:LYS:HZ2	1.76	0.49
41:BQ:72:THR:HG23	41:BQ:73:LYS:N	2.27	0.49
44:BT:3:THR:C	44:BT:4:ILE:HD12	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BW:42:LEU:HB2	46:BW:46:VAL:HG23	1.94	0.49
46:BW:44:LYS:HE3	46:BW:48:ARG:HH21	1.75	0.49
1:AA:50:A:H62	1:AA:361:G:H4'	1.77	0.49
1:AA:718:A:C8	12:AK:117:HIS:CG	3.01	0.49
1:AA:1369:C:C6	10:AI:112:ARG:HB2	2.48	0.49
1:AA:1370:G:O2'	1:AA:1371:G:H5'	2.13	0.49
2:AV:52:U:H2'	2:AV:53:G:H8	1.78	0.49
3:AB:56:LEU:HD22	3:AB:216:VAL:HG23	1.94	0.49
5:AD:67:LEU:HD22	5:AD:67:LEU:N	2.27	0.49
6:AE:71:ILE:HD12	6:AE:71:ILE:O	2.12	0.49
8:AG:30:MET:O	8:AG:31:VAL:C	2.50	0.49
10:AI:71:ILE:HD13	10:AI:74:GLN:OE1	2.12	0.49
12:AK:15:VAL:HB	12:AK:78:ILE:CG1	2.42	0.49
13:AL:79:ILE:CG1	13:AL:103:CYS:HB2	2.43	0.49
20:AS:31:ARG:HD2	20:AS:56:HIS:CD2	2.47	0.49
22:B0:340:A:H2'	22:B0:341:C:H5'	1.93	0.49
22:B0:407:G:H2'	22:B0:408:G:H8	1.78	0.49
22:B0:493:G:N2	41:BQ:6:LYS:O	2.45	0.49
22:B0:587:C:O2'	28:BC:83:VAL:HG22	2.11	0.49
22:B0:662:G:H5''	28:BC:88:ARG:CD	2.43	0.49
22:B0:802:A:P	28:BC:62:GLN:HB2	2.52	0.49
22:B0:807:U:O4'	22:B0:2445:G:H4'	2.13	0.49
22:B0:1021:A:H2'	22:B0:1023:U:O4'	2.13	0.49
22:B0:1046:A:O2'	25:B5:26:MET:CA	2.59	0.49
22:B0:1111:A:O2'	22:B0:1112:G:C1'	2.60	0.49
22:B0:1142:A:O2'	22:B0:1144:A:OP2	2.25	0.49
22:B0:1211:C:H4'	22:B0:1212:G:OP2	2.12	0.49
22:B0:1263:U:H2'	22:B0:1264:A:O4'	2.12	0.49
22:B0:1402:U:H2'	22:B0:1403:A:H8	1.77	0.49
22:B0:1760:C:OP2	22:B0:1760:C:C6	2.62	0.49
22:B0:1799:G:H4'	22:B0:1800:C:O5'	2.13	0.49
22:B0:2127:G:H2'	22:B0:2165:C:O3'	2.13	0.49
22:B0:2133:G:OP1	24:B2:11:ARG:HB3	2.12	0.49
22:B0:2438:U:H4'	22:B0:2600:A:H5'	1.94	0.49
22:B0:2462:C:H1'	22:B0:2491:U:O4	2.12	0.49
22:B0:2546:U:H5''	22:B0:2547:A:C5'	2.43	0.49
26:BA:142:ASN:HB3	26:BA:190:THR:HG1	1.76	0.49
26:BA:175:LEU:HG	26:BA:178:GLY:N	2.22	0.49
28:BC:49:ARG:HH11	28:BC:49:ARG:CB	2.19	0.49
29:BD:33:ILE:HB	29:BD:95:MET:HE2	1.94	0.49
37:BL:22:ARG:HA	37:BL:22:ARG:NE	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:6:GLN:HB3	39:BN:7:LEU:HD22	1.94	0.49
39:BN:47:ILE:HD12	39:BN:63:ILE:CD1	2.43	0.49
39:BN:95:LYS:HG3	39:BN:97:TYR:CE1	2.47	0.49
41:BQ:16:LYS:NZ	41:BQ:18:ARG:NH1	2.61	0.49
45:BU:24:ARG:O	45:BU:58:LEU:HD11	2.13	0.49
45:BU:67:LYS:HE3	45:BU:71:LYS:HD3	1.95	0.49
47:BX:31:ILE:H	47:BX:31:ILE:CD1	2.25	0.49
1:AA:126:G:H5'	1:AA:633:G:N2	2.27	0.49
1:AA:960:U:O2'	1:AA:961:U:P	2.69	0.49
1:AA:1221:G:H2'	20:AS:1:PRO:CD	2.42	0.49
1:AA:1242:G:H2'	1:AA:1243:C:H6	1.78	0.49
1:AA:1256:A:O2'	1:AA:1257:A:P	2.70	0.49
1:AA:1347:G:O2'	1:AA:1348:U:H6	1.96	0.49
1:AA:1386:G:H2'	1:AA:1387:G:C8	2.48	0.49
1:AA:1460:C:H2'	1:AA:1461:G:O4'	2.12	0.49
5:AD:66:VAL:HB	5:AD:70:GLN:NE2	2.28	0.49
5:AD:144:ILE:O	5:AD:149:LYS:HE3	2.13	0.49
6:AE:10:LEU:HD11	6:AE:67:ARG:HG2	1.95	0.49
7:AF:29:ILE:HD11	7:AF:64:VAL:HG21	1.94	0.49
8:AG:29:LEU:HD21	8:AG:119:LEU:HD22	1.94	0.49
10:AI:112:ARG:HG2	10:AI:112:ARG:HH11	1.77	0.49
14:AM:16:ILE:HA	14:AM:19:THR:OG1	2.13	0.49
22:B0:72:U:H5''	22:B0:73:A:OP2	2.13	0.49
22:B0:91:A:H5'	22:B0:92:U:OP2	2.13	0.49
22:B0:371:A:H4'	22:B0:372:G:O5'	2.13	0.49
22:B0:385:C:H2'	22:B0:387:U:OP2	2.13	0.49
22:B0:457:A:O3'	22:B0:458:G:H4'	2.12	0.49
22:B0:672:C:C5	28:BC:77:ILE:HD12	2.47	0.49
22:B0:799:G:N3	28:BC:56:GLY:HA3	2.28	0.49
22:B0:1458:C:H2'	22:B0:1459:U:O4'	2.13	0.49
22:B0:1579:A:N3	26:BA:68:ARG:N	2.61	0.49
22:B0:1615:C:HO2'	22:B0:1616:A:P	2.36	0.49
22:B0:1924:C:H2'	22:B0:1925:C:H6	1.78	0.49
23:B9:92:C:H2'	23:B9:93:C:C6	2.48	0.49
24:B2:169:ILE:HG13	24:B2:170:ILE:N	2.28	0.49
30:BE:102:ILE:HG13	30:BE:112:VAL:O	2.13	0.49
33:BH:25:LEU:HD13	33:BH:25:LEU:N	2.27	0.49
41:BQ:17:VAL:HG11	41:BQ:101:SER:CB	2.42	0.49
41:BQ:18:ARG:CB	41:BQ:76:VAL:HG21	2.43	0.49
42:BR:66:LYS:NZ	42:BR:67:VAL:HG23	2.27	0.49
44:BT:60:VAL:HG13	44:BT:60:VAL:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BU:30:VAL:HG22	45:BU:31:LEU:N	2.28	0.49
47:BX:26:LEU:HA	47:BX:37:ARG:NH2	2.27	0.49
1:AA:189:A:O2'	1:AA:190:A:H4'	2.13	0.49
1:AA:446:G:H1	1:AA:488:C:H42	1.61	0.49
1:AA:924:C:H2'	1:AA:925:G:C8	2.48	0.49
1:AA:1168:U:H2'	1:AA:1169:A:C8	2.48	0.49
1:AA:1240:U:H1'	8:AG:33:GLY:O	2.13	0.49
1:AA:1293:C:H2'	1:AA:1294:G:C8	2.48	0.49
1:AA:1459:G:H4'	21:AT:18:LYS:HD3	1.95	0.49
3:AB:160:LEU:HD12	3:AB:160:LEU:N	2.27	0.49
4:AC:26:LYS:HD2	4:AC:27:GLU:N	2.28	0.49
4:AC:116:ALA:HB2	4:AC:184:ASN:OD1	2.13	0.49
9:AH:54:THR:HG23	9:AH:55:LYS:HG3	1.94	0.49
11:AJ:32:THR:CG2	11:AJ:83:THR:HA	2.43	0.49
11:AJ:53:ILE:HG12	11:AJ:63:ASP:HB2	1.94	0.49
17:AP:4:ILE:HB	17:AP:67:ILE:HG22	1.94	0.49
19:AR:47:ARG:NE	19:AR:49:LYS:HB2	2.27	0.49
22:B0:285:G:H2'	22:B0:286:U:O4'	2.12	0.49
22:B0:494:G:OP1	41:BQ:102:HIS:HB2	2.13	0.49
22:B0:918:A:N7	22:B0:2268:A:N7	2.61	0.49
22:B0:970:U:C4'	22:B0:984:A:H1'	2.40	0.49
22:B0:989:G:O2'	22:B0:990:A:P	2.70	0.49
22:B0:1155:A:OP2	40:BO:55:GLN:HA	2.13	0.49
22:B0:1196:C:H2'	22:B0:1197:G:C8	2.42	0.49
22:B0:1252:G:H1'	40:BO:32:ARG:HE	1.74	0.49
22:B0:1425:G:N2	22:B0:1574:C:H42	2.11	0.49
22:B0:1457:G:H2'	22:B0:1458:C:O4'	2.13	0.49
22:B0:1492:G:H8	22:B0:1492:G:O5'	1.95	0.49
22:B0:1657:U:H2'	22:B0:1658:C:O4'	2.12	0.49
22:B0:1699:G:H5''	22:B0:1700:A:OP2	2.13	0.49
22:B0:1965:C:H5	22:B0:1967:C:OP2	1.95	0.49
22:B0:2132:U:OP2	24:B2:7:MET:HE3	2.13	0.49
22:B0:2332:C:O2'	22:B0:2335:A:H1'	2.13	0.49
26:BA:61:TYR:OH	26:BA:102:TYR:N	2.46	0.49
26:BA:81:GLU:C	26:BA:90:ILE:HG12	2.32	0.49
32:BG:82:ALA:HB1	32:BG:100:ILE:HD11	1.95	0.49
34:BI:8:LEU:HD23	34:BI:19:VAL:O	2.12	0.49
36:BK:59:ARG:CZ	36:BK:59:ARG:HA	2.43	0.49
36:BK:102:LEU:HD12	36:BK:102:LEU:N	2.28	0.49
37:BL:49:GLU:N	37:BL:50:PRO:O	2.45	0.49
39:BN:36:LYS:HD3	39:BN:37:LYS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:54:LEU:HD22	39:BN:54:LEU:N	2.28	0.49
39:BN:101:GLU:O	39:BN:103:THR:N	2.43	0.49
41:BQ:74:ILE:O	41:BQ:74:ILE:HG12	2.12	0.49
45:BU:23:LYS:NZ	45:BU:45:HIS:HB2	2.27	0.49
46:BW:29:ARG:HG3	46:BW:29:ARG:HH11	1.78	0.49
1:AA:916:U:H2'	1:AA:917:G:H8	1.78	0.48
1:AA:973:G:H3'	1:AA:974:A:H5''	1.95	0.48
1:AA:979:C:O5'	20:AS:4:LEU:N	2.46	0.48
1:AA:998:C:H2'	1:AA:999:C:C6	2.48	0.48
1:AA:1036:A:H2'	1:AA:1037:C:C6	2.47	0.48
1:AA:1173:U:H2'	1:AA:1174:G:H8	1.78	0.48
1:AA:1347:G:O2'	1:AA:1348:U:P	2.71	0.48
5:AD:71:PHE:HE1	5:AD:93:LEU:HD21	1.78	0.48
9:AH:100:ILE:C	9:AH:100:ILE:HD12	2.33	0.48
10:AI:56:MET:HE2	10:AI:60:LEU:HD21	1.95	0.48
12:AK:18:GLY:HA3	12:AK:34:THR:O	2.12	0.48
13:AL:65:TYR:HB2	13:AL:92:VAL:HG11	1.94	0.48
15:AN:79:SER:O	15:AN:83:VAL:HG13	2.13	0.48
22:B0:64:A:O2'	22:B0:65:U:H5'	2.12	0.48
22:B0:215:G:H4'	22:B0:216:A:O5'	2.11	0.48
22:B0:226:A:C2'	22:B0:227:A:OP2	2.60	0.48
22:B0:527:C:H4'	22:B0:528:A:O5'	2.13	0.48
22:B0:590:A:OP2	28:BC:47:LYS:HB3	2.13	0.48
22:B0:658:U:C4	28:BC:98:LYS:HD3	2.48	0.48
22:B0:813:U:H2'	22:B0:814:C:C6	2.48	0.48
22:B0:868:U:C4	22:B0:869:G:C6	3.01	0.48
22:B0:1417:U:N3	26:BA:98:GLY:O	2.46	0.48
22:B0:1422:G:H1'	26:BA:149:LYS:HB2	1.95	0.48
22:B0:1491:A:N6	26:BA:180:MET:SD	2.86	0.48
22:B0:1581:A:H8	22:B0:1581:A:O5'	1.96	0.48
22:B0:1816:C:N3	26:BA:50:THR:OG1	2.46	0.48
22:B0:2162:G:N7	22:B0:2164:C:H2'	2.28	0.48
22:B0:2345:G:H4'	22:B0:2346:A:C5'	2.42	0.48
22:B0:2405:G:H1	22:B0:2412:A:N6	2.11	0.48
22:B0:2583:G:H2'	22:B0:2584:U:C6	2.46	0.48
22:B0:2834:G:O2'	22:B0:2835:A:H5'	2.13	0.48
24:B2:47:LEU:HD11	24:B2:170:ILE:HG21	1.93	0.48
26:BA:104:LEU:HB3	26:BA:126:GLY:O	2.12	0.48
26:BA:140:VAL:C	26:BA:141:HIS:CD2	2.87	0.48
27:BB:3:GLY:HA3	27:BB:203:VAL:O	2.13	0.48
28:BC:130:LYS:CB	28:BC:133:LEU:HD13	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:143:ASP:O	29:BD:144:LYS:HB3	2.12	0.48
32:BG:34:ILE:O	32:BG:34:ILE:HD13	2.13	0.48
37:BL:99:LYS:HB3	37:BL:99:LYS:NZ	2.28	0.48
38:BM:31:THR:HG23	38:BM:32:PRO:HD2	1.95	0.48
40:BO:68:ALA:HB1	40:BO:73:ILE:O	2.12	0.48
41:BQ:71:VAL:HG22	41:BQ:107:VAL:HG12	1.95	0.48
42:BR:61:LEU:HD22	42:BR:61:LEU:N	2.28	0.48
43:BS:28:LEU:HD22	43:BS:28:LEU:N	2.28	0.48
45:BU:20:LEU:H	45:BU:20:LEU:CD2	2.21	0.48
1:AA:27:G:H2'	1:AA:28:A:H8	1.77	0.48
1:AA:41:G:N2	1:AA:401:C:N3	2.62	0.48
1:AA:321:A:N7	1:AA:328:C:O2	2.46	0.48
1:AA:323:U:H3	1:AA:327:A:H62	1.61	0.48
1:AA:975:A:H1'	1:AA:1358:U:O2'	2.13	0.48
1:AA:1158:C:O2	1:AA:1159:U:H4'	2.12	0.48
1:AA:1239:A:N6	1:AA:1296:C:O2'	2.46	0.48
5:AD:58:GLN:HG3	5:AD:62:ARG:NE	2.28	0.48
5:AD:109:THR:HG23	5:AD:112:GLU:H	1.78	0.48
6:AE:89:THR:HG23	6:AE:90:GLY:H	1.77	0.48
7:AF:93:LYS:HD2	7:AF:93:LYS:O	2.14	0.48
13:AL:49:ARG:HH12	13:AL:88:ASP:CG	2.16	0.48
17:AP:14:ARG:HH11	17:AP:14:ARG:CB	2.26	0.48
19:AR:15:GLU:O	19:AR:17:VAL:HG23	2.14	0.48
19:AR:39:VAL:HG23	19:AR:44:THR:HB	1.95	0.48
22:B0:79:C:H2'	22:B0:80:G:H8	1.77	0.48
22:B0:241:A:H1'	22:B0:243:U:C5	2.47	0.48
22:B0:527:C:H1'	22:B0:528:A:N7	2.28	0.48
22:B0:669:G:H21	28:BC:74:LYS:HB3	1.75	0.48
22:B0:1054:A:H1'	25:B3:89:SER:OG	2.13	0.48
22:B0:1421:G:C4	26:BA:148:GLY:HA3	2.48	0.48
22:B0:1579:A:O5'	26:BA:66:PHE:N	2.41	0.48
22:B0:1695:G:H2'	22:B0:1696:G:H5'	1.95	0.48
22:B0:2047:C:H2'	22:B0:2048:G:H8	1.78	0.48
22:B0:2126:A:O2'	22:B0:2171:A:N3	2.45	0.48
22:B0:2126:A:H4'	22:B0:2171:A:H2'	1.94	0.48
22:B0:2514:U:N3	22:B0:2574:G:N2	2.60	0.48
22:B0:2550:G:N2	22:B0:2558:C:H42	2.10	0.48
22:B0:2727:A:H2'	22:B0:2728:U:C6	2.48	0.48
23:B9:11:C:C2'	23:B9:12:C:H5'	2.43	0.48
24:B2:36:LYS:HE2	24:B2:36:LYS:CA	2.39	0.48
25:B5:102:ASP:O	25:B5:106:LEU:HG	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:BA:141:HIS:CG	26:BA:190:THR:HB	2.48	0.48
26:BA:157:ALA:HB1	26:BA:196:ASN:O	2.13	0.48
32:BG:48:ILE:HD13	32:BG:48:ILE:N	2.19	0.48
32:BG:108:ILE:HG13	32:BG:128:ILE:HD13	1.95	0.48
32:BG:109:ALA:HA	32:BG:112:LYS:CE	2.43	0.48
32:BG:111:THR:O	32:BG:111:THR:HG22	2.13	0.48
33:BH:106:LYS:NZ	33:BH:116:ARG:NH1	2.62	0.48
36:BK:18:ARG:HH21	36:BK:68:PHE:HE2	1.60	0.48
36:BK:25:ASP:HB2	36:BK:64:TRP:CH2	2.48	0.48
39:BN:21:PRO:HG3	39:BN:61:ARG:NE	2.27	0.48
40:BO:16:ILE:C	40:BO:18:LYS:N	2.65	0.48
40:BO:49:ARG:NH1	40:BO:49:ARG:HG3	2.26	0.48
40:BO:93:ILE:O	40:BO:97:ILE:HG23	2.13	0.48
45:BU:42:THR:HG23	45:BU:75:ASN:OD1	2.13	0.48
45:BU:59:PHE:CG	45:BU:59:PHE:O	2.66	0.48
1:AA:116:A:H61	1:AA:313:A:C2'	2.26	0.48
1:AA:204:U:H4'	1:AA:216:U:C6	2.48	0.48
1:AA:561:U:H5''	1:AA:563:A:N7	2.27	0.48
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.60	0.48
1:AA:1226:C:O2'	1:AA:1227:A:OP1	2.24	0.48
4:AC:166:TRP:CZ2	4:AC:168:ARG:HD3	2.48	0.48
5:AD:63:ILE:HD12	5:AD:194:ILE:HD11	1.93	0.48
5:AD:150:LYS:N	5:AD:150:LYS:HD2	2.29	0.48
11:AJ:28:THR:OG1	11:AJ:86:ALA:HB1	2.13	0.48
16:AO:56:LEU:HD12	16:AO:57:ARG:NE	2.28	0.48
22:B0:85:G:H2'	22:B0:86:G:C8	2.48	0.48
22:B0:124:G:H2'	22:B0:125:A:H5''	1.94	0.48
22:B0:241:A:C2	22:B0:255:A:H5''	2.48	0.48
22:B0:588:U:O3'	28:BC:43:THR:HA	2.13	0.48
22:B0:711:G:H1	22:B0:720:U:H3	1.61	0.48
22:B0:848:C:O2'	22:B0:849:A:H5'	2.13	0.48
22:B0:960:A:O4'	22:B0:2496:C:C5'	2.55	0.48
22:B0:1035:U:H2'	22:B0:1036:G:H8	1.78	0.48
22:B0:1170:C:H2'	22:B0:1171:G:C8	2.48	0.48
22:B0:1417:U:O5'	22:B0:1588:A:H1'	2.13	0.48
22:B0:2043:C:OP2	22:B0:2779:U:H5	1.96	0.48
22:B0:2157:G:H4'	22:B0:2158:A:OP1	2.12	0.48
26:BA:76:VAL:HG12	26:BA:114:GLN:HB3	1.95	0.48
26:BA:104:LEU:HD12	26:BA:126:GLY:HA2	1.94	0.48
32:BG:36:GLU:O	32:BG:38:CYS:N	2.45	0.48
33:BH:15:TRP:HH2	33:BH:140:LEU:N	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:142:ILE:OXT	33:BH:142:ILE:HG13	2.14	0.48
35:BJ:54:GLN:HB3	35:BJ:56:PRO:HB3	1.95	0.48
36:BK:20:LEU:HD12	36:BK:20:LEU:N	2.27	0.48
37:BL:63:ARG:HH11	37:BL:64:ARG:HE	1.57	0.48
38:BM:8:ILE:H	38:BM:8:ILE:CD1	2.26	0.48
41:BQ:14:ALA:HB2	41:BQ:100:THR:O	2.13	0.48
43:BS:8:ASP:O	43:BS:24:VAL:HG23	2.12	0.48
46:BW:18:LEU:O	46:BW:18:LEU:HD13	2.13	0.48
46:BW:39:GLN:OE1	46:BW:41:HIS:HB2	2.14	0.48
1:AA:753:A:H4'	1:AA:754:C:C5'	2.43	0.48
1:AA:839:U:H5'	1:AA:840:C:H5	1.78	0.48
1:AA:872:A:H4'	1:AA:873:A:OP1	2.13	0.48
1:AA:927:G:H4'	1:AA:1503:A:N7	2.28	0.48
1:AA:1330:U:H5'	14:AM:22:TYR:HA	1.96	0.48
1:AA:1454:G:O3'	21:AT:26:MET:HE3	2.13	0.48
3:AB:174:GLU:HA	3:AB:177:ASN:OD1	2.13	0.48
9:AH:74:ILE:O	9:AH:74:ILE:HG23	2.14	0.48
16:AO:59:VAL:HG21	22:B0:715:A:H5'	1.96	0.48
18:AQ:20:ILE:HD12	18:AQ:20:ILE:N	2.28	0.48
21:AT:75:LYS:O	21:AT:79:THR:HG22	2.12	0.48
21:AT:85:LEU:HD12	21:AT:85:LEU:N	2.28	0.48
22:B0:494:G:C1'	41:BQ:7:HIS:H	2.26	0.48
22:B0:516:C:O3'	22:B0:1262:A:H4'	2.14	0.48
22:B0:582:A:H5''	40:BO:10:ARG:HD2	1.96	0.48
22:B0:671:C:H2'	28:BC:77:ILE:HG13	1.95	0.48
22:B0:898:C:H2'	22:B0:899:A:H8	1.77	0.48
22:B0:924:G:H5'	45:BU:22:VAL:CG1	2.42	0.48
22:B0:937:C:H2'	22:B0:938:G:H8	1.78	0.48
22:B0:1022:G:O2'	22:B0:1024:G:N7	2.47	0.48
22:B0:1170:C:H2'	22:B0:1171:G:H8	1.79	0.48
22:B0:1209:U:O3'	22:B0:1212:G:H5'	2.13	0.48
22:B0:1318:U:H3	22:B0:1334:G:H1	1.61	0.48
22:B0:1493:A:OP1	26:BA:153:LEU:HD22	2.14	0.48
22:B0:1579:A:C3'	26:BA:66:PHE:O	2.62	0.48
22:B0:1801:A:H5''	22:B0:1802:A:OP2	2.12	0.48
22:B0:2023:C:H2'	22:B0:2024:G:H8	1.78	0.48
22:B0:2059:A:O2'	22:B0:2060:A:P	2.71	0.48
22:B0:2238:G:O2'	22:B0:2239:G:H3'	2.14	0.48
22:B0:2262:U:C6	45:BU:11:ASN:O	2.66	0.48
22:B0:2282:G:O6	22:B0:2427:C:N3	2.47	0.48
22:B0:2299:U:H2'	22:B0:2300:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2576:G:H3'	22:B0:2576:G:N3	2.29	0.48
22:B0:2678:C:N4	27:BB:126:ASN:ND2	2.61	0.48
22:B0:2679:A:H5'	27:BB:116:LYS:HD2	1.94	0.48
25:B3:45:VAL:O	25:B3:46:GLU:C	2.52	0.48
25:B3:50:GLU:HA	25:B5:16:VAL:N	2.28	0.48
25:B5:84:LYS:O	25:B5:88:GLU:HG3	2.14	0.48
26:BA:80:LEU:HD13	26:BA:81:GLU:N	2.29	0.48
26:BA:145:MET:H	26:BA:149:LYS:HD3	1.78	0.48
27:BB:114:LYS:CD	27:BB:196:ALA:HB2	2.39	0.48
28:BC:26:ALA:O	28:BC:30:GLN:HB2	2.12	0.48
29:BD:12:VAL:HG23	29:BD:13:LYS:CD	2.32	0.48
32:BG:36:GLU:O	32:BG:37:PHE:HB3	2.14	0.48
33:BH:51:GLY:HA3	33:BH:121:LYS:HG3	1.95	0.48
36:BK:73:ILE:CG1	36:BK:90:GLU:HB3	2.39	0.48
38:BM:7:ARG:H	38:BM:7:ARG:CD	2.18	0.48
39:BN:20:ARG:HA	39:BN:21:PRO:C	2.34	0.48
40:BO:27:ARG:HA	40:BO:33:VAL:CG2	2.44	0.48
42:BR:73:ARG:HD2	42:BR:73:ARG:C	2.34	0.48
1:AA:718:A:H8	12:AK:117:HIS:CA	2.27	0.48
1:AA:895:G:H1	1:AA:904:U:H3	1.60	0.48
1:AA:1083:U:H2'	1:AA:1084:G:O4'	2.12	0.48
1:AA:1306:A:H1'	1:AA:1332:A:C2	2.49	0.48
1:AA:1347:G:O2'	1:AA:1348:U:O5'	2.31	0.48
1:AA:1383:C:O2'	1:AA:1384:C:P	2.71	0.48
2:AV:39:U:H1'	2:AW:36:A:O2'	2.13	0.48
2:AW:76:A:H2'	22:B0:2392:A:N6	2.28	0.48
3:AB:110:ILE:HD11	3:AB:147:LEU:HD22	1.95	0.48
8:AG:144:ALA:C	8:AG:146:ALA:H	2.15	0.48
10:AI:27:ILE:HG23	10:AI:62:LEU:HB2	1.95	0.48
13:AL:23:LEU:C	13:AL:25:ALA:H	2.17	0.48
18:AQ:6:THR:HA	18:AQ:60:ILE:O	2.12	0.48
18:AQ:11:VAL:HG12	18:AQ:54:ILE:HA	1.95	0.48
19:AR:64:LEU:CB	19:AR:66:LEU:HD13	2.43	0.48
22:B0:223:A:O4'	22:B0:421:C:H4'	2.13	0.48
22:B0:669:G:O5'	28:BC:52:VAL:HB	2.12	0.48
22:B0:732:C:H41	22:B0:762:U:P	2.36	0.48
22:B0:740:C:N4	22:B0:757:G:N1	2.62	0.48
22:B0:910:A:N7	36:BK:10:ARG:NE	2.61	0.48
22:B0:960:A:N9	22:B0:2496:C:C5'	2.76	0.48
22:B0:1996:C:H5'	27:BB:139:SER:HB2	1.96	0.48
22:B0:2065:C:H2'	22:B0:2066:C:H6	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2151:U:H5''	22:B0:2152:G:OP1	2.14	0.48
22:B0:2179:C:O3'	22:B0:2181:U:O5'	2.32	0.48
22:B0:2351:G:H2'	22:B0:2352:A:H8	1.78	0.48
22:B0:2490:G:C5'	22:B0:2491:U:OP1	2.53	0.48
22:B0:2746:U:H5''	30:BE:137:LYS:HE2	1.95	0.48
23:B9:90:C:H2'	23:B9:91:C:C6	2.49	0.48
24:B2:56:GLN:NE2	24:B2:202:GLN:HB2	2.28	0.48
26:BA:241:LYS:O	26:BA:242:HIS:CB	2.61	0.48
27:BB:40:LEU:HD22	27:BB:40:LEU:N	2.28	0.48
35:BJ:118:THR:CG2	35:BJ:119:PRO:HA	2.32	0.48
35:BJ:120:VAL:HG22	35:BJ:121:THR:N	2.28	0.48
36:BK:91:TYR:CG	36:BK:92:TRP:N	2.82	0.48
38:BM:35:ILE:HD13	38:BM:35:ILE:C	2.33	0.48
39:BN:28:LYS:H	39:BN:28:LYS:CD	2.25	0.48
39:BN:28:LYS:HD3	39:BN:28:LYS:N	2.27	0.48
39:BN:64:SER:C	39:BN:71:ARG:HG2	2.34	0.48
40:BO:9:ALA:C	40:BO:11:ALA:H	2.17	0.48
41:BQ:8:ARG:O	41:BQ:9:HIS:CB	2.61	0.48
45:BU:23:LYS:NZ	45:BU:56:HIS:HB3	2.28	0.48
46:BW:6:LEU:O	46:BW:14:LEU:HD21	2.13	0.48
48:BZ:38:LEU:HD12	48:BZ:38:LEU:H	1.78	0.48
1:AA:404:G:H8	1:AA:546:A:HO2'	1.54	0.48
1:AA:925:G:N3	1:AA:1502:A:H1'	2.28	0.48
1:AA:1267:C:C6	1:AA:1327:C:H5''	2.49	0.48
1:AA:1308:U:H2'	1:AA:1309:G:C8	2.48	0.48
1:AA:1342:C:H2'	1:AA:1343:G:H8	1.76	0.48
1:AA:1381:U:O2	8:AG:78:ARG:HD3	2.13	0.48
2:AW:52:U:H2'	2:AW:53:G:C8	2.48	0.48
4:AC:6:PRO:O	4:AC:9:ILE:HG22	2.13	0.48
10:AI:90:ASP:HB3	10:AI:93:LEU:HG	1.96	0.48
13:AL:56:LEU:HD11	13:AL:81:ILE:CG1	2.44	0.48
13:AL:109:ARG:HH11	13:AL:111:GLN:HB2	1.78	0.48
18:AQ:58:VAL:HG12	18:AQ:77:VAL:HG22	1.95	0.48
18:AQ:81:ALA:O	18:AQ:82:VAL:HG13	2.14	0.48
22:B0:195:A:P	22:B0:196:A:H4'	2.54	0.48
22:B0:386:G:N2	22:B0:411:G:H22	2.08	0.48
22:B0:501:A:O2'	22:B0:502:A:OP1	2.29	0.48
22:B0:531:C:H1'	22:B0:532:A:N1	2.28	0.48
22:B0:776:G:C3'	22:B0:777:G:H5''	2.44	0.48
22:B0:784:G:H4'	22:B0:785:G:O5'	2.14	0.48
22:B0:853:C:O2	22:B0:925:A:N1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:863:A:H2	22:B0:915:C:H42	1.61	0.48
22:B0:918:A:N6	22:B0:2268:A:C8	2.69	0.48
22:B0:977:G:H2'	22:B0:978:G:H8	1.78	0.48
22:B0:1056:G:H5''	22:B0:1057:A:O4'	2.13	0.48
22:B0:1084:A:N7	25:B3:82:GLU:HA	2.28	0.48
22:B0:1227:G:H2'	22:B0:1228:G:H8	1.79	0.48
22:B0:1229:C:H2'	22:B0:1230:A:C8	2.47	0.48
22:B0:1292:G:H2'	22:B0:1293:C:C6	2.49	0.48
22:B0:1494:A:P	26:BA:143:VAL:HG11	2.54	0.48
22:B0:1530:C:H2'	22:B0:1531:U:C6	2.47	0.48
22:B0:1565:C:O2	22:B0:1568:G:N2	2.47	0.48
22:B0:1653:G:O6	37:BL:8:ARG:NH1	2.47	0.48
22:B0:2088:A:H2'	22:B0:2089:C:C6	2.49	0.48
22:B0:2161:C:C6	24:B2:5:LYS:HB3	2.49	0.48
22:B0:2243:U:C5'	22:B0:2244:U:OP1	2.59	0.48
22:B0:2779:U:O2	33:BH:111:LYS:HB3	2.14	0.48
22:B0:2781:A:OP1	22:B0:2781:A:H3'	2.14	0.48
22:B0:2832:U:O2'	22:B0:2833:U:OP2	2.29	0.48
25:B5:64:ASN:HB3	25:B5:67:ALA:HB3	1.95	0.48
26:BA:139:THR:HG23	26:BA:192:GLY:HA2	1.95	0.48
26:BA:175:LEU:CD2	26:BA:178:GLY:H	2.25	0.48
26:BA:187:CYS:HA	26:BA:188:ARG:CZ	2.43	0.48
28:BC:56:GLY:O	28:BC:57:LYS:HB3	2.14	0.48
28:BC:87:ALA:O	28:BC:88:ARG:HG3	2.14	0.48
29:BD:7:TYR:HA	29:BD:11:VAL:CG1	2.43	0.48
36:BK:75:GLU:HB2	36:BK:90:GLU:OE1	2.14	0.48
41:BQ:66:ILE:HA	41:BQ:69:LEU:CD2	2.44	0.48
45:BU:48:ALA:HB1	45:BU:76:ARG:HH21	1.78	0.48
49:B1:42:VAL:HG22	49:B1:43:ARG:HD2	1.95	0.48
1:AA:56:U:H2'	1:AA:57:G:C8	2.49	0.48
1:AA:88:U:H2'	1:AA:89:U:O4'	2.13	0.48
1:AA:371:A:H61	1:AA:388:G:H1'	1.79	0.48
1:AA:607:A:OP1	1:AA:608:A:OP2	2.32	0.48
1:AA:872:A:O2'	1:AA:874:G:OP2	2.26	0.48
1:AA:1316:G:H2'	1:AA:1318:A:OP2	2.13	0.48
2:AU:52:U:H2'	2:AU:53:G:C8	2.49	0.48
3:AB:161:PHE:HA	3:AB:183:PHE:O	2.13	0.48
5:AD:138:PRO:HA	5:AD:181:PHE:O	2.14	0.48
6:AE:131:ASN:O	6:AE:135:VAL:HG13	2.13	0.48
8:AG:74:VAL:CG1	8:AG:85:GLN:HB3	2.43	0.48
9:AH:100:ILE:HB	9:AH:111:THR:OG1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AI:46:VAL:HA	10:AI:49:GLN:CG	2.42	0.48
13:AL:23:LEU:HD11	13:AL:60:PHE:CE1	2.49	0.48
18:AQ:77:VAL:HG12	18:AQ:79:GLU:O	2.14	0.48
19:AR:58:ILE:HG22	19:AR:62:ARG:NH1	2.23	0.48
19:AR:64:LEU:HB2	19:AR:66:LEU:HD13	1.94	0.48
22:B0:750:A:H8	22:B0:750:A:OP2	1.97	0.48
22:B0:800:A:H4'	22:B0:801:G:O5'	2.12	0.48
22:B0:802:A:H2'	22:B0:803:U:C6	2.49	0.48
22:B0:822:G:H22	22:B0:2357:G:H22	1.60	0.48
22:B0:961:C:C2'	22:B0:2497:A:O2'	2.49	0.48
22:B0:1398:C:O5'	22:B0:1398:C:H6	1.95	0.48
22:B0:1494:A:N6	26:BA:188:ARG:CG	2.77	0.48
22:B0:1496:A:C5'	26:BA:190:THR:HG23	2.44	0.48
22:B0:1954:G:H2'	22:B0:1956:U:C5	2.49	0.48
22:B0:1969:A:OP1	22:B0:1971:U:H5	1.97	0.48
22:B0:2077:A:N6	22:B0:2241:A:N1	2.61	0.48
22:B0:2164:C:H1'	22:B0:2165:C:H1'	1.95	0.48
22:B0:2515:C:C4	27:BB:152:PRO:HB2	2.48	0.48
22:B0:2783:U:H2'	22:B0:2784:U:C6	2.49	0.48
22:B0:2873:A:H1'	37:BL:5:LYS:HD3	1.95	0.48
24:B2:176:LYS:HB2	24:B2:179:PHE:CE1	2.48	0.48
25:B3:16:VAL:HB	25:B3:53:GLU:N	2.29	0.48
25:B5:107:LYS:HG2	25:B5:111:GLU:OE2	2.13	0.48
26:BA:195:GLY:O	26:BA:196:ASN:HB3	2.13	0.48
27:BB:123:LYS:CA	27:BB:141:ARG:HH21	2.27	0.48
28:BC:32:VAL:HB	35:BJ:17:LYS:CE	2.43	0.48
32:BG:59:THR:HG23	32:BG:60:VAL:N	2.28	0.48
35:BJ:17:LYS:C	35:BJ:18:ARG:NE	2.67	0.48
35:BJ:26:GLY:O	35:BJ:27:LEU:C	2.50	0.48
37:BL:83:LEU:N	37:BL:83:LEU:HD12	2.28	0.48
39:BN:6:GLN:C	39:BN:9:GLN:HE22	2.17	0.48
39:BN:76:HIS:O	39:BN:79:VAL:HB	2.13	0.48
40:BO:99:VAL:HG13	40:BO:100:PHE:CD1	2.48	0.48
42:BR:10:VAL:HG13	42:BR:35:ALA:CB	2.39	0.48
43:BS:11:ILE:CD1	43:BS:21:ARG:HG2	2.43	0.48
1:AA:717:U:O2'	12:AK:117:HIS:HB3	2.14	0.48
1:AA:718:A:H8	12:AK:117:HIS:N	2.12	0.48
1:AA:736:C:H2'	1:AA:737:C:C6	2.49	0.48
1:AA:820:U:H5''	1:AA:821:G:OP2	2.14	0.48
1:AA:908:A:H2'	1:AA:909:A:C8	2.47	0.48
1:AA:1528:U:C5'	1:AA:1529:G:OP1	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:8:PHE:HB3	7:AF:60:VAL:HG21	1.96	0.48
16:AO:56:LEU:HB3	16:AO:57:ARG:HH11	1.79	0.48
22:B0:95:A:H2'	22:B0:96:C:C6	2.49	0.48
22:B0:493:G:H5'	22:B0:494:G:OP2	2.14	0.48
22:B0:634:C:H2'	22:B0:635:C:H6	1.79	0.48
22:B0:669:G:H22	28:BC:74:LYS:HB2	1.78	0.48
22:B0:855:G:N2	22:B0:922:C:N3	2.60	0.48
22:B0:1002:G:C6	22:B0:1154:G:N2	2.82	0.48
22:B0:1186:G:H21	22:B0:1187:G:H1'	1.78	0.48
22:B0:1288:G:O5'	22:B0:1288:G:H8	1.97	0.48
22:B0:1578:U:O3'	26:BA:65:ASP:CA	2.61	0.48
22:B0:1582:C:H2'	26:BA:97:ASP:H	1.79	0.48
22:B0:1655:A:H3'	22:B0:1656:C:H6	1.77	0.48
22:B0:2320:U:H5''	22:B0:2321:U:OP1	2.14	0.48
22:B0:2640:G:O5'	33:BH:78:THR:HG23	2.14	0.48
23:B9:66:A:C2'	23:B9:67:G:OP2	2.61	0.48
25:B3:73:ARG:NE	25:B3:80:LEU:HA	2.24	0.48
28:BC:150:THR:HG22	28:BC:186:VAL:HA	1.96	0.48
29:BD:32:LYS:HA	29:BD:91:ARG:HG2	1.95	0.48
30:BE:86:LEU:HD12	30:BE:86:LEU:N	2.28	0.48
33:BH:14:ASP:HA	33:BH:138:GLN:NE2	2.29	0.48
33:BH:109:LEU:N	33:BH:110:PRO:CA	2.77	0.48
35:BJ:80:SER:HB3	35:BJ:112:LEU:HD23	1.96	0.48
37:BL:43:GLU:OE1	37:BL:44:LEU:N	2.46	0.48
39:BN:96:LEU:H	39:BN:96:LEU:CD1	2.17	0.48
40:BO:31:TYR:HB2	40:BO:32:ARG:NH1	2.28	0.48
40:BO:56:PHE:O	40:BO:58:GLN:HG3	2.13	0.48
40:BO:59:LEU:O	40:BO:61:ILE:HG12	2.14	0.48
42:BR:11:LEU:CD1	46:BW:29:ARG:HD3	2.44	0.48
42:BR:82:LYS:HE2	42:BR:84:TYR:CE1	2.49	0.48
1:AA:9:G:H2'	1:AA:10:A:H8	1.79	0.48
1:AA:525:C:H2'	1:AA:526:C:C6	2.48	0.48
1:AA:982:U:H4'	1:AA:983:A:O4'	2.14	0.48
1:AA:1089:G:N2	1:AA:1090:U:H1'	2.28	0.48
1:AA:1302:C:H5	14:AM:13:HIS:HB2	1.78	0.48
1:AA:1533:C:O2'	1:AA:1534:A:H5'	2.14	0.48
2:AW:30:G:H2'	2:AW:31:A:H8	1.79	0.48
5:AD:90:LEU:N	5:AD:90:LEU:HD12	2.29	0.48
5:AD:102:TYR:CE1	5:AD:109:THR:HA	2.48	0.48
8:AG:135:LYS:HD2	8:AG:135:LYS:O	2.13	0.48
9:AH:6:ILE:HD13	9:AH:32:LYS:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AL:30:ARG:HH22	13:AL:78:VAL:CG1	2.26	0.48
17:AP:56:ARG:NH1	17:AP:60:TRP:HE1	2.12	0.48
19:AR:23:LYS:NZ	19:AR:64:LEU:HD13	2.28	0.48
21:AT:66:ILE:HD11	21:AT:70:LYS:HG2	1.94	0.48
22:B0:226:A:O2'	22:B0:227:A:P	2.72	0.48
22:B0:586:A:C5'	28:BC:78:TRP:HA	2.44	0.48
22:B0:608:A:H2'	22:B0:609:A:H8	1.77	0.48
22:B0:690:G:H2'	22:B0:691:C:C6	2.49	0.48
22:B0:956:G:O2'	36:BK:81:ARG:HA	2.13	0.48
22:B0:1213:A:H61	22:B0:1236:G:H4'	1.78	0.48
22:B0:1376:C:H2'	22:B0:1377:G:C8	2.49	0.48
22:B0:1423:A:H2	22:B0:1576:U:H1'	1.79	0.48
22:B0:1799:G:C8	22:B0:1819:A:N6	2.82	0.48
22:B0:1890:A:H2	22:B0:2234:G:H21	1.61	0.48
22:B0:2115:G:O4'	22:B0:2168:G:H1'	2.13	0.48
22:B0:2212:A:H2'	22:B0:2213:U:O4'	2.14	0.48
22:B0:2269:G:H2'	22:B0:2270:A:O4'	2.13	0.48
22:B0:2513:A:H2'	22:B0:2514:U:C6	2.49	0.48
22:B0:2588:G:H2'	22:B0:2589:A:O4'	2.14	0.48
22:B0:2685:G:H2'	22:B0:2686:G:H8	1.79	0.48
22:B0:2884:U:N3	48:BZ:51:ARG:NH1	2.62	0.48
24:B2:113:VAL:O	24:B2:137:PRO:HG3	2.13	0.48
25:B3:58:LEU:CD2	25:B3:87:VAL:HG13	2.43	0.48
25:B3:64:ASN:HB3	25:B3:67:ALA:HB3	1.94	0.48
25:B5:54:PHE:CE2	25:B5:100:LYS:HD3	2.49	0.48
26:BA:140:VAL:HA	26:BA:190:THR:O	2.14	0.48
26:BA:171:VAL:CG2	26:BA:172:THR:H	2.25	0.48
27:BB:96:ILE:HB	27:BB:98:VAL:HG22	1.95	0.48
27:BB:123:LYS:H	27:BB:141:ARG:HE	1.60	0.48
29:BD:103:ILE:HG21	29:BD:173:ASP:HA	1.95	0.48
30:BE:5:LYS:HA	30:BE:51:PHE:O	2.14	0.48
32:BG:4:VAL:HG23	32:BG:4:VAL:O	2.14	0.48
37:BL:30:ARG:NH1	37:BL:30:ARG:HB3	2.29	0.48
39:BN:47:ILE:HG21	39:BN:61:ARG:CZ	2.44	0.48
45:BU:39:GLN:HB2	45:BU:68:PHE:HD1	1.79	0.48
1:AA:549:C:C4	1:AA:550:G:N7	2.82	0.48
1:AA:960:U:O2	1:AA:1223:C:H4'	2.14	0.48
1:AA:1053:G:H1'	1:AA:1056:U:H5	1.79	0.48
1:AA:1095:U:H2'	1:AA:1096:C:C6	2.49	0.48
1:AA:1222:G:O2'	1:AA:1223:C:H5'	2.14	0.48
4:AC:6:PRO:HA	4:AC:9:ILE:HG22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:75:GLU:CB	7:AF:79:ARG:HH12	2.27	0.48
8:AG:148:LYS:CG	12:AK:60:PHE:HE1	2.25	0.48
11:AJ:100:ILE:HG12	11:AJ:100:ILE:OXT	2.14	0.48
18:AQ:13:SER:HB3	18:AQ:21:VAL:HG22	1.96	0.48
19:AR:11:ARG:HG2	19:AR:44:THR:O	2.14	0.48
20:AS:35:ARG:NH2	20:AS:52:ASN:HA	2.28	0.48
22:B0:395:U:H2'	22:B0:396:G:C8	2.49	0.48
22:B0:496:G:H2'	22:B0:497:A:O4'	2.13	0.48
22:B0:662:G:C2	22:B0:663:G:N7	2.82	0.48
22:B0:992:C:H4'	40:BO:47:ARG:HD3	1.96	0.48
22:B0:1204:A:H2'	22:B0:1206:G:O4'	2.14	0.48
22:B0:1668:A:H4'	22:B0:1669:A:O5'	2.13	0.48
22:B0:1822:C:H2'	22:B0:1823:G:H8	1.77	0.48
22:B0:2109:U:O2'	22:B0:2110:G:P	2.72	0.48
22:B0:2116:G:OP1	22:B0:2117:A:H4'	2.14	0.48
22:B0:2355:G:H5''	45:BU:18:LYS:HE2	1.95	0.48
22:B0:2618:G:H2'	22:B0:2619:C:C6	2.49	0.48
22:B0:2677:G:C2	27:BB:125:TRP:HE3	2.31	0.48
24:B2:46:ASN:HB3	24:B2:209:LYS:HB2	1.96	0.48
24:B2:213:ILE:HG23	24:B2:213:ILE:O	2.14	0.48
27:BB:181:ASP:O	27:BB:182:ALA:HB2	2.14	0.48
29:BD:144:LYS:HD2	29:BD:144:LYS:C	2.33	0.48
32:BG:67:THR:HG22	32:BG:68:PHE:H	1.79	0.48
33:BH:20:ALA:CB	33:BH:56:VAL:HG13	2.44	0.48
35:BJ:21:ARG:O	35:BJ:23:ILE:N	2.47	0.48
41:BQ:50:VAL:HA	41:BQ:53:SER:OG	2.14	0.48
42:BR:18:GLU:O	42:BR:19:LYS:HB2	2.14	0.48
42:BR:23:ALA:C	42:BR:25:GLU:H	2.18	0.48
42:BR:48:GLN:HA	42:BR:53:VAL:O	2.14	0.48
42:BR:49:LYS:HB3	42:BR:50:LEU:HD12	1.95	0.48
43:BS:11:ILE:HB	43:BS:70:ALA:HB3	1.95	0.48
45:BU:69:GLU:HA	45:BU:73:PRO:CB	2.43	0.48
1:AA:399:G:H2'	1:AA:400:C:C6	2.49	0.47
1:AA:1302:C:O2'	1:AA:1303:C:H5'	2.13	0.47
1:AA:1303:C:OP2	1:AA:1304:G:N7	2.46	0.47
2:AU:70:C:H2'	2:AU:71:G:C8	2.49	0.47
4:AC:190:THR:HG21	4:AC:192:TYR:CE2	2.49	0.47
5:AD:43:ARG:O	5:AD:45:PRO:HD3	2.13	0.47
5:AD:64:TYR:HA	5:AD:110:ARG:CD	2.43	0.47
8:AG:78:ARG:HD3	8:AG:78:ARG:H	1.78	0.47
9:AH:28:SER:HB2	9:AH:56:PRO:HB2	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AH:76:ARG:HG2	9:AH:126:CYS:HB3	1.96	0.47
16:AO:66:LEU:HB3	16:AO:77:TYR:HE1	1.78	0.47
17:AP:28:ARG:C	17:AP:29:ASN:HD22	2.17	0.47
21:AT:19:HIS:O	21:AT:23:ARG:HD3	2.14	0.47
22:B0:481:G:C5	22:B0:507:A:H1'	2.49	0.47
22:B0:508:A:C4'	22:B0:509:C:O5'	2.60	0.47
22:B0:617:G:N3	22:B0:617:G:C3'	2.75	0.47
22:B0:1046:A:O2'	22:B0:1047:G:OP2	2.32	0.47
22:B0:1085:A:H62	25:B3:81:LYS:HB2	1.78	0.47
22:B0:1087:G:N7	22:B0:1089:A:H1'	2.29	0.47
22:B0:1246:A:H5''	35:BJ:25:SER:HA	1.96	0.47
22:B0:1341:G:H5''	22:B0:1602:U:O4	2.14	0.47
22:B0:2042:A:H3'	22:B0:2779:U:O4	2.14	0.47
22:B0:2176:A:OP1	24:B2:166:LYS:N	2.46	0.47
22:B0:2321:U:O2	22:B0:2321:U:C2'	2.62	0.47
22:B0:2472:G:H21	22:B0:2529:G:H22	1.60	0.47
22:B0:2537:U:H2'	22:B0:2538:C:C6	2.49	0.47
22:B0:2732:G:H3'	22:B0:2732:G:N3	2.28	0.47
22:B0:2856:A:O5'	22:B0:2857:G:OP2	2.32	0.47
23:B9:112:G:H2'	23:B9:113:C:C6	2.49	0.47
24:B2:26:ILE:CG2	24:B2:181:ALA:HA	2.43	0.47
24:B2:224:ASP:OD2	24:B2:226:ALA:HB3	2.14	0.47
25:B3:17:MET:HA	25:B3:20:VAL:HB	1.96	0.47
25:B3:23:ILE:HD12	25:B3:23:ILE:C	2.35	0.47
25:B3:66:VAL:O	25:B3:70:LYS:HG3	2.14	0.47
27:BB:50:VAL:HG12	27:BB:51:THR:HG23	1.95	0.47
28:BC:158:PHE:CZ	28:BC:160:ALA:HB3	2.49	0.47
29:BD:25:MET:C	29:BD:27:VAL:H	2.17	0.47
30:BE:127:GLN:HG3	30:BE:129:GLU:H	1.79	0.47
36:BK:14:LYS:CG	36:BK:15:GLY:H	2.21	0.47
39:BN:48:ALA:O	39:BN:61:ARG:NH1	2.47	0.47
1:AA:8:A:H1'	6:AE:107:GLY:HA2	1.94	0.47
1:AA:115:G:O2'	1:AA:116:A:P	2.72	0.47
1:AA:175:C:H2'	1:AA:176:C:C6	2.49	0.47
1:AA:545:C:C2'	1:AA:546:A:H5'	2.44	0.47
1:AA:547:A:O2'	1:AA:548:G:C8	2.66	0.47
1:AA:655:A:H2	1:AA:754:C:N3	2.12	0.47
1:AA:1408:A:O2'	1:AA:1409:C:H5'	2.14	0.47
2:AV:16:U:H6	2:AV:16:U:P	2.37	0.47
11:AJ:5:ARG:C	11:AJ:6:ILE:HD12	2.34	0.47
13:AL:115:LYS:C	13:AL:117:GLY:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AQ:43:LEU:HD22	18:AQ:72:TRP:CZ3	2.49	0.47
22:B0:84:A:H5''	22:B0:85:G:OP1	2.14	0.47
22:B0:121:G:C6	22:B0:140:C:O2	2.67	0.47
22:B0:323:C:N3	28:BC:163:ASN:HB2	2.27	0.47
22:B0:626:A:H3'	22:B0:627:A:C5'	2.43	0.47
22:B0:680:C:H2'	22:B0:681:G:C8	2.49	0.47
22:B0:720:U:H2'	22:B0:721:A:C8	2.49	0.47
22:B0:1016:G:H2'	22:B0:1017:G:H8	1.77	0.47
22:B0:1062:G:H2'	22:B0:1063:G:C8	2.49	0.47
22:B0:1165:A:H61	22:B0:1184:U:H1'	1.79	0.47
22:B0:1193:G:H2'	22:B0:1194:A:C8	2.48	0.47
22:B0:1201:U:N1	35:BJ:14:LYS:HE3	2.29	0.47
22:B0:1495:A:O5'	26:BA:191:LEU:N	2.47	0.47
22:B0:1502:C:H2'	22:B0:1503:G:C8	2.48	0.47
22:B0:1578:U:C2'	26:BA:66:PHE:N	2.77	0.47
22:B0:2075:U:H6	22:B0:2075:U:H5'	1.79	0.47
22:B0:2086:U:H2'	22:B0:2087:G:H8	1.78	0.47
22:B0:2126:A:OP2	22:B0:2172:U:C6	2.66	0.47
22:B0:2327:A:N3	45:BU:10:ARG:NH1	2.61	0.47
22:B0:2418:A:H2'	22:B0:2419:U:C6	2.49	0.47
22:B0:2438:U:H4'	22:B0:2600:A:C5'	2.44	0.47
22:B0:2787:C:H4'	22:B0:2811:G:O4'	2.14	0.47
23:B9:99:A:H2'	23:B9:100:G:C5'	2.45	0.47
23:B9:108:A:O2'	23:B9:109:A:OP2	2.32	0.47
25:B3:7:ILE:O	25:B3:11:VAL:HG23	2.13	0.47
26:BA:183:VAL:O	26:BA:184:GLU:O	2.32	0.47
28:BC:23:PHE:CE1	28:BC:28:VAL:HG11	2.50	0.47
28:BC:46:GLN:O	28:BC:47:LYS:HD2	2.14	0.47
28:BC:73:ILE:HA	28:BC:80:SER:O	2.14	0.47
28:BC:151:GLY:HA2	28:BC:187:VAL:HG13	1.95	0.47
28:BC:155:GLU:HG3	28:BC:156:ASN:N	2.29	0.47
32:BG:126:ARG:HG3	32:BG:126:ARG:O	2.14	0.47
33:BH:21:THR:HB	33:BH:57:LEU:HD23	1.96	0.47
34:BI:2:ILE:HB	34:BI:33:ALA:O	2.13	0.47
36:BK:8:LYS:O	36:BK:9:PHE:HB3	2.14	0.47
38:BM:48:LEU:HD12	38:BM:48:LEU:N	2.29	0.47
39:BN:24:THR:HG22	39:BN:49:ILE:HD11	1.96	0.47
40:BO:106:THR:C	40:BO:108:LEU:H	2.18	0.47
42:BR:73:ARG:HD2	42:BR:75:GLY:N	2.29	0.47
43:BS:10:VAL:CG1	43:BS:69:VAL:HB	2.44	0.47
47:BX:24:LEU:CD2	47:BX:29:ARG:HG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:48:C:O2'	1:AA:49:U:P	2.72	0.47
1:AA:57:G:H2'	1:AA:58:C:C6	2.49	0.47
1:AA:166:U:H2'	1:AA:167:A:H8	1.80	0.47
1:AA:225:C:H2'	1:AA:226:G:H8	1.79	0.47
1:AA:294:U:O5'	1:AA:294:U:H6	1.97	0.47
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.49	0.47
5:AD:170:LEU:HD23	5:AD:181:PHE:HA	1.95	0.47
8:AG:20:GLU:O	8:AG:24:LYS:HG3	2.13	0.47
9:AH:87:ARG:HB2	9:AH:87:ARG:HH11	1.79	0.47
22:B0:129:C:N3	22:B0:130:C:N4	2.61	0.47
22:B0:742:A:H2'	22:B0:743:A:C8	2.49	0.47
22:B0:960:A:N6	22:B0:2251:G:H5'	2.29	0.47
22:B0:1006:C:H42	22:B0:1137:G:H1	1.61	0.47
22:B0:1040:A:H2	22:B0:1115:G:N1	2.12	0.47
22:B0:1358:G:H2'	22:B0:1359:A:H8	1.78	0.47
22:B0:1418:G:O6	26:BA:101:ARG:NE	2.47	0.47
22:B0:1456:G:OP1	37:BL:63:ARG:NE	2.47	0.47
22:B0:1493:A:P	26:BA:143:VAL:HG23	2.55	0.47
22:B0:1495:A:O2'	26:BA:128:THR:HG22	2.14	0.47
22:B0:1580:A:OP2	26:BA:68:ARG:NE	2.47	0.47
22:B0:1710:G:H2'	22:B0:1711:A:C8	2.49	0.47
22:B0:2113:U:H5'	22:B0:2114:A:OP2	2.13	0.47
22:B0:2164:C:H4'	22:B0:2165:C:C4'	2.44	0.47
22:B0:2180:U:OP2	22:B0:2181:U:H5''	2.14	0.47
22:B0:2296:U:C5'	22:B0:2297:A:OP1	2.60	0.47
22:B0:2741:A:H2'	22:B0:2742:G:O4'	2.14	0.47
24:B2:38:VAL:HG13	24:B2:38:VAL:O	2.14	0.47
28:BC:5:LEU:HG	28:BC:120:VAL:CG1	2.45	0.47
34:BI:47:ILE:HG23	34:BI:47:ILE:O	2.15	0.47
35:BJ:60:ARG:HH11	35:BJ:60:ARG:CB	2.27	0.47
35:BJ:134:ALA:O	35:BJ:135:ILE:C	2.53	0.47
37:BL:38:LEU:C	37:BL:40:LYS:H	2.16	0.47
38:BM:24:THR:HG23	38:BM:90:VAL:HG23	1.96	0.47
38:BM:97:PHE:CE2	38:BM:101:GLY:HA3	2.49	0.47
38:BM:102:ARG:N	38:BM:102:ARG:HD2	2.28	0.47
40:BO:18:LYS:HD2	40:BO:18:LYS:O	2.14	0.47
41:BQ:16:LYS:HZ1	41:BQ:18:ARG:HH12	1.60	0.47
45:BU:30:VAL:HG22	45:BU:31:LEU:CD2	2.33	0.47
46:BW:28:LEU:O	46:BW:29:ARG:C	2.51	0.47
47:BX:40:THR:HB	47:BX:43:ILE:HG13	1.97	0.47
1:AA:60:A:O2'	1:AA:61:G:OP2	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:477:C:H2'	1:AA:478:A:H8	1.78	0.47
1:AA:726:C:O2'	1:AA:727:G:H5'	2.13	0.47
1:AA:812:G:O2'	1:AA:813:U:P	2.72	0.47
1:AA:1352:C:H2'	1:AA:1353:G:H8	1.80	0.47
1:AA:1380:U:C2'	1:AA:1381:U:OP2	2.62	0.47
1:AA:1513:A:H2'	1:AA:1514:G:C8	2.49	0.47
2:AU:40:C:H2'	2:AU:41:U:C6	2.49	0.47
3:AB:212:TYR:O	3:AB:216:VAL:HG12	2.15	0.47
6:AE:45:VAL:HG12	6:AE:46:GLY:N	2.29	0.47
6:AE:55:VAL:N	6:AE:56:PRO:HD2	2.29	0.47
7:AF:10:VAL:HG22	7:AF:11:HIS:H	1.79	0.47
9:AH:26:MET:HE1	9:AH:27:PRO:HG2	1.95	0.47
10:AI:87:MET:HE2	10:AI:94:ARG:NE	2.29	0.47
13:AL:109:ARG:CB	13:AL:118:VAL:HG21	2.44	0.47
22:B0:347:A:H2'	22:B0:348:A:H8	1.77	0.47
22:B0:1005:C:C5	22:B0:1143:A:H1'	2.49	0.47
22:B0:1427:A:H61	26:BA:58:LYS:HG3	1.76	0.47
22:B0:1494:A:C6	26:BA:131:MET:HA	2.49	0.47
22:B0:1496:A:N7	26:BA:141:HIS:ND1	2.62	0.47
22:B0:1567:G:H4'	22:B0:1568:G:N3	2.30	0.47
22:B0:1611:C:N4	22:B0:1612:C:N4	2.63	0.47
22:B0:2049:G:O2'	22:B0:2050:C:P	2.72	0.47
22:B0:2074:U:H2'	22:B0:2075:U:H5''	1.97	0.47
22:B0:2121:G:H1	22:B0:2178:C:N4	2.00	0.47
22:B0:2323:G:H21	22:B0:2337:G:C5'	2.27	0.47
22:B0:2363:G:H2'	22:B0:2364:C:C6	2.49	0.47
22:B0:2592:G:H2'	22:B0:2593:U:C6	2.49	0.47
22:B0:2679:A:O3'	27:BB:116:LYS:HE2	2.14	0.47
22:B0:2887:A:O2'	22:B0:2888:C:H5'	2.14	0.47
23:B9:68:C:H2'	23:B9:69:G:C8	2.49	0.47
24:B2:46:ASN:O	24:B2:208:ILE:HA	2.14	0.47
24:B2:97:GLU:OE1	24:B2:122:VAL:HG11	2.14	0.47
24:B2:191:LEU:C	24:B2:191:LEU:HD13	2.35	0.47
27:BB:8:LYS:HA	27:BB:27:ILE:CD1	2.45	0.47
28:BC:23:PHE:HE1	28:BC:28:VAL:HG11	1.78	0.47
33:BH:84:ILE:HD13	33:BH:84:ILE:N	2.18	0.47
36:BK:37:GLY:H	36:BK:98:PRO:HA	1.78	0.47
37:BL:100:CYS:HB3	37:BL:111:ALA:HA	1.97	0.47
40:BO:102:LYS:H	40:BO:102:LYS:CD	2.27	0.47
46:BW:35:GLY:CA	46:BW:38:GLN:HE22	2.27	0.47
49:B1:35:LEU:HB3	49:B1:36:LYS:CE	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:558:G:H2'	1:AA:559:A:C2	2.49	0.47
1:AA:1198:G:H2'	1:AA:1199:U:C6	2.49	0.47
2:AU:75:C:H2'	22:B0:2559:C:N4	2.30	0.47
2:AV:53:G:H1	2:AV:61:C:H42	1.61	0.47
2:AW:32:C:H2'	2:AW:33:U:C6	2.48	0.47
2:AW:35:A:H2'	2:AW:36:A:H8	1.79	0.47
3:AB:113:LEU:O	3:AB:117:GLU:HG3	2.14	0.47
3:AB:140:LEU:O	3:AB:144:GLU:HG3	2.15	0.47
4:AC:29:ALA:CB	15:AN:99:SER:HB3	2.44	0.47
8:AG:38:ALA:O	8:AG:42:VAL:HG23	2.14	0.47
14:AM:80:MET:HG3	14:AM:91:ARG:HE	1.78	0.47
14:AM:115:ILE:OXT	14:AM:115:ILE:HG13	2.14	0.47
16:AO:42:PHE:HZ	16:AO:52:ARG:HA	1.79	0.47
16:AO:56:LEU:HD13	16:AO:56:LEU:C	2.35	0.47
17:AP:35:ARG:H	17:AP:35:ARG:CD	2.23	0.47
18:AQ:43:LEU:HD22	18:AQ:72:TRP:CH2	2.50	0.47
19:AR:35:SER:HB2	19:AR:37:LYS:HZ3	1.79	0.47
22:B0:165:A:C5'	22:B0:172:A:OP1	2.59	0.47
22:B0:221:A:HO2'	22:B0:222:A:P	2.38	0.47
22:B0:271:G:O6	22:B0:366:C:N3	2.48	0.47
22:B0:329:G:N1	43:BS:65:GLN:OE1	2.47	0.47
22:B0:479:A:C3'	22:B0:480:A:H5''	2.44	0.47
22:B0:481:G:H4'	22:B0:506:G:N2	2.22	0.47
22:B0:493:G:C5'	41:BQ:9:HIS:N	2.68	0.47
22:B0:750:A:O2'	22:B0:751:A:O5'	2.31	0.47
22:B0:959:A:OP2	36:BK:80:VAL:CG2	2.62	0.47
22:B0:1246:A:C5'	35:BJ:26:GLY:N	2.76	0.47
22:B0:1299:G:H1'	22:B0:1301:A:C2	2.49	0.47
22:B0:1484:U:OP1	26:BA:84:PRO:HB3	2.14	0.47
22:B0:1948:G:O2'	22:B0:1949:G:H5'	2.14	0.47
22:B0:2073:C:N3	22:B0:2437:G:N2	2.63	0.47
22:B0:2150:C:O3'	22:B0:2151:U:O4'	2.32	0.47
22:B0:2779:U:O2'	22:B0:2780:G:P	2.70	0.47
23:B9:102:G:H2'	23:B9:103:U:C6	2.49	0.47
26:BA:181:ARG:HA	26:BA:181:ARG:NE	2.25	0.47
28:BC:141:MET:O	28:BC:143:LEU:HD23	2.14	0.47
29:BD:134:GLN:C	29:BD:135:ILE:HD12	2.35	0.47
30:BE:132:LEU:HD12	30:BE:132:LEU:N	2.29	0.47
33:BH:30:THR:O	33:BH:31:GLU:HB2	2.15	0.47
36:BK:31:PHE:CD2	36:BK:106:ASP:HA	2.49	0.47
39:BN:37:LYS:HD2	39:BN:39:LEU:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:16:ILE:O	40:BO:17:LEU:HB2	2.13	0.47
41:BQ:85:ILE:O	41:BQ:87:PRO:HD3	2.14	0.47
41:BQ:110:ARG:CZ	41:BQ:110:ARG:HA	2.44	0.47
42:BR:67:VAL:HG13	42:BR:76:ARG:H	1.80	0.47
1:AA:421:U:C4	5:AD:43:ARG:CB	2.98	0.47
1:AA:545:C:HO2'	1:AA:549:C:C4'	2.25	0.47
1:AA:1413:A:H2'	1:AA:1414:U:C6	2.50	0.47
3:AB:34:ARG:HB3	3:AB:34:ARG:NH1	2.29	0.47
3:AB:186:VAL:HG21	3:AB:190:SER:HB3	1.95	0.47
4:AC:86:LEU:O	4:AC:90:VAL:HG23	2.14	0.47
5:AD:10:LEU:HD22	5:AD:62:ARG:NH1	2.29	0.47
8:AG:130:LYS:N	8:AG:134:VAL:HG21	2.29	0.47
12:AK:41:LEU:HD22	12:AK:41:LEU:N	2.30	0.47
22:B0:50:U:H4'	22:B0:51:G:OP2	2.14	0.47
22:B0:281:C:H2'	22:B0:282:A:C8	2.50	0.47
22:B0:535:G:H2'	22:B0:536:G:H8	1.80	0.47
22:B0:837:C:C4	22:B0:941:A:N6	2.83	0.47
22:B0:837:C:N4	22:B0:941:A:N6	2.63	0.47
22:B0:958:U:O5'	36:BK:80:VAL:HG23	2.14	0.47
22:B0:959:A:O5'	36:BK:79:ALA:O	2.32	0.47
22:B0:1076:C:O2'	32:BG:91:LYS:HB2	2.14	0.47
22:B0:1225:G:O2'	22:B0:1226:A:P	2.72	0.47
22:B0:1549:A:H2'	22:B0:1550:C:C6	2.49	0.47
22:B0:1940:U:O2'	22:B0:1941:C:H6	1.98	0.47
22:B0:2131:U:H3'	24:B2:7:MET:HE1	1.97	0.47
22:B0:2180:U:OP2	22:B0:2181:U:H6	1.96	0.47
22:B0:2654:A:H1'	22:B0:2656:U:C2	2.49	0.47
22:B0:2678:C:P	27:BB:125:TRP:HB2	2.54	0.47
25:B3:41:ALA:C	25:B3:44:PRO:HD2	2.34	0.47
33:BH:31:GLU:HA	33:BH:34:ARG:HG2	1.95	0.47
36:BK:86:LYS:HE2	36:BK:86:LYS:CA	2.44	0.47
39:BN:27:VAL:HG23	39:BN:27:VAL:O	2.15	0.47
40:BO:47:ARG:HA	40:BO:47:ARG:NE	2.30	0.47
40:BO:54:ARG:HH11	40:BO:54:ARG:HG3	1.80	0.47
40:BO:103:VAL:C	40:BO:105:PHE:H	2.18	0.47
42:BR:9:LYS:O	46:BW:29:ARG:NH2	2.48	0.47
43:BS:3:LYS:HB2	43:BS:5:ARG:HH12	1.79	0.47
1:AA:140:U:H2'	1:AA:141:G:H8	1.80	0.47
1:AA:197:A:HO2'	1:AA:198:G:P	2.38	0.47
1:AA:269:C:H2'	1:AA:270:A:H8	1.80	0.47
1:AA:392:C:H2'	1:AA:393:A:C8	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:456:A:H2'	1:AA:457:G:H8	1.80	0.47
1:AA:509:A:O2'	1:AA:510:A:P	2.73	0.47
1:AA:559:A:H4'	1:AA:560:A:H5''	1.96	0.47
1:AA:627:G:O2'	1:AA:628:G:H5'	2.15	0.47
1:AA:701:U:H5''	1:AA:703:G:C1'	2.45	0.47
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.49	0.47
1:AA:1269:A:H2	1:AA:1312:G:H21	1.63	0.47
1:AA:1409:C:C4'	22:B0:1913:A:H4'	2.27	0.47
1:AA:1425:U:H2'	1:AA:1426:G:C8	2.49	0.47
3:AB:52:ALA:CB	3:AB:199:ILE:HD11	2.44	0.47
4:AC:129:PHE:HB3	4:AC:156:LEU:HD11	1.97	0.47
5:AD:90:LEU:HD12	5:AD:90:LEU:H	1.79	0.47
7:AF:38:ARG:HG3	7:AF:39:LEU:N	2.29	0.47
8:AG:108:ARG:HA	8:AG:118:ARG:NH2	2.30	0.47
10:AI:27:ILE:HB	10:AI:34:LEU:CG	2.45	0.47
10:AI:74:GLN:O	10:AI:78:ILE:HG13	2.14	0.47
11:AJ:52:LEU:H	11:AJ:52:LEU:CD1	2.27	0.47
13:AL:30:ARG:HG3	13:AL:57:THR:HG23	1.96	0.47
15:AN:68:ARG:HB3	15:AN:79:SER:OG	2.14	0.47
20:AS:49:ALA:HA	20:AS:57:VAL:O	2.14	0.47
21:AT:66:ILE:HG23	21:AT:71:ALA:HB2	1.95	0.47
22:B0:151:C:OP1	22:B0:1360:G:H5'	2.15	0.47
22:B0:192:C:H2'	22:B0:193:U:H5'	1.97	0.47
22:B0:295:G:O2'	22:B0:296:U:H5'	2.15	0.47
22:B0:367:G:H2'	22:B0:368:A:C8	2.50	0.47
22:B0:387:U:H2'	22:B0:391:A:C8	2.50	0.47
22:B0:494:G:O6	41:BQ:8:ARG:CZ	2.63	0.47
22:B0:589:U:N3	28:BC:74:LYS:HE3	2.29	0.47
22:B0:631:A:H1'	35:BJ:66:PHE:HZ	1.80	0.47
22:B0:694:U:H3	22:B0:768:G:H1	1.62	0.47
22:B0:750:A:O2'	22:B0:751:A:O4'	2.33	0.47
22:B0:797:G:H2'	22:B0:798:G:H8	1.79	0.47
22:B0:843:G:N2	22:B0:937:C:N3	2.63	0.47
22:B0:958:U:C6	36:BK:80:VAL:HA	2.50	0.47
22:B0:1201:U:C2'	35:BJ:14:LYS:HE3	2.44	0.47
22:B0:1250:G:H5''	40:BO:5:ARG:NH1	2.30	0.47
22:B0:1311:G:H4'	22:B0:1313:U:H5	1.80	0.47
22:B0:1406:U:H2'	22:B0:1407:G:H8	1.79	0.47
22:B0:1421:G:C2	26:BA:148:GLY:N	2.81	0.47
22:B0:1421:G:C4	26:BA:149:LYS:CB	2.97	0.47
22:B0:1491:A:C6	26:BA:180:MET:HA	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1577:C:H4'	26:BA:62:ARG:H	1.79	0.47
22:B0:1583:G:N2	26:BA:94:LEU:O	2.41	0.47
22:B0:1705:A:H2'	22:B0:1706:C:O4'	2.14	0.47
22:B0:1758:U:P	22:B0:1759:A:OP2	2.73	0.47
22:B0:1794:A:H2'	22:B0:1795:C:C6	2.50	0.47
22:B0:1985:C:H2'	22:B0:1986:C:H6	1.78	0.47
22:B0:2167:U:O4	22:B0:2170:A:N6	2.44	0.47
22:B0:2207:C:H2'	22:B0:2208:C:C6	2.50	0.47
22:B0:2333:A:O2'	22:B0:2334:U:H5'	2.14	0.47
22:B0:2553:G:H2'	22:B0:2554:U:C4'	2.45	0.47
22:B0:2690:U:H5	22:B0:2719:G:N2	2.13	0.47
22:B0:2837:A:H2'	22:B0:2838:G:H8	1.78	0.47
23:B9:99:A:H2'	23:B9:100:G:H5'	1.97	0.47
24:B2:26:ILE:N	24:B2:26:ILE:HD12	2.29	0.47
24:B2:52:ARG:HH11	24:B2:52:ARG:HG3	1.80	0.47
26:BA:73:ILE:HD13	26:BA:96:LYS:HE3	1.97	0.47
26:BA:170:TYR:HA	26:BA:184:GLU:O	2.15	0.47
27:BB:4:LEU:HG	27:BB:5:VAL:H	1.79	0.47
27:BB:20:VAL:HG22	27:BB:21:SER:N	2.30	0.47
27:BB:122:VAL:HG23	27:BB:141:ARG:HA	1.96	0.47
27:BB:130:GLN:HB2	27:BB:139:SER:O	2.15	0.47
27:BB:185:ASN:C	27:BB:186:LEU:HD23	2.35	0.47
28:BC:36:ALA:CA	35:BJ:18:ARG:CZ	2.92	0.47
28:BC:88:ARG:HB3	35:BJ:29:LYS:O	2.14	0.47
31:BF:90:LEU:N	31:BF:90:LEU:HD12	2.29	0.47
32:BG:64:ARG:HG3	32:BG:64:ARG:HH11	1.78	0.47
32:BG:92:PRO:CB	32:BG:135:MET:HA	2.45	0.47
34:BI:43:ILE:HD13	34:BI:53:LYS:NZ	2.29	0.47
35:BJ:13:LYS:HD3	35:BJ:13:LYS:N	2.29	0.47
36:BK:112:LEU:HD13	36:BK:112:LEU:N	2.27	0.47
37:BL:71:ARG:NH1	37:BL:71:ARG:HB3	2.28	0.47
39:BN:20:ARG:HA	39:BN:20:ARG:HE	1.79	0.47
39:BN:29:VAL:HG13	39:BN:30:TRP:N	2.29	0.47
39:BN:48:ALA:HB3	39:BN:64:SER:OG	2.14	0.47
39:BN:65:ASN:ND2	39:BN:66:GLY:N	2.63	0.47
41:BQ:32:ALA:HB1	41:BQ:51:LEU:HD11	1.97	0.47
41:BQ:70:LYS:O	41:BQ:107:VAL:HA	2.15	0.47
42:BR:7:LEU:HD13	46:BW:22:LEU:CD2	2.44	0.47
42:BR:25:GLU:CG	42:BR:26:LYS:H	2.11	0.47
42:BR:85:VAL:HG13	42:BR:85:VAL:O	2.14	0.47
44:BT:34:LYS:H	44:BT:34:LYS:CD	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BU:67:LYS:O	45:BU:68:PHE:HB2	2.14	0.47
47:BX:12:ALA:HA	47:BX:15:ARG:CZ	2.44	0.47
1:AA:19:A:H2'	1:AA:20:U:H6	1.80	0.47
1:AA:384:G:H2'	1:AA:385:C:C6	2.50	0.47
1:AA:427:U:C4	1:AA:428:G:N7	2.83	0.47
1:AA:997:U:H2'	1:AA:998:C:C6	2.49	0.47
1:AA:1015:G:H5'	20:AS:9:PHE:HE2	1.80	0.47
1:AA:1132:C:H2'	1:AA:1133:G:H8	1.80	0.47
1:AA:1219:A:H2'	1:AA:1220:G:C8	2.49	0.47
1:AA:1285:A:O2'	1:AA:1286:U:C5'	2.61	0.47
1:AA:1394:A:H5''	1:AA:1395:C:OP2	2.14	0.47
2:AV:59:U:H2'	2:AV:60:C:H5'	1.97	0.47
3:AB:16:GLY:CA	3:AB:39:ILE:HA	2.43	0.47
7:AF:30:THR:C	7:AF:32:ALA:H	2.18	0.47
8:AG:145:GLU:HA	8:AG:148:LYS:HB3	1.96	0.47
8:AG:149:ALA:HB2	12:AK:60:PHE:CA	2.43	0.47
11:AJ:81:GLU:O	11:AJ:84:VAL:HG22	2.15	0.47
13:AL:30:ARG:HB2	13:AL:30:ARG:HH11	1.76	0.47
15:AN:68:ARG:NE	15:AN:70:HIS:HB3	2.30	0.47
20:AS:69:LYS:N	20:AS:69:LYS:HD2	2.29	0.47
21:AT:79:THR:HA	21:AT:82:ILE:HG12	1.96	0.47
22:B0:590:A:O2'	22:B0:591:U:H5'	2.15	0.47
22:B0:669:G:N3	22:B0:670:A:H2	2.13	0.47
22:B0:669:G:H1	28:BC:73:ILE:HG13	1.79	0.47
22:B0:906:U:H2'	22:B0:907:G:O4'	2.15	0.47
22:B0:1201:U:O2	28:BC:40:ARG:NH1	2.48	0.47
22:B0:1284:A:H2'	22:B0:1284:A:N3	2.30	0.47
22:B0:1418:G:C6	26:BA:101:ARG:NE	2.83	0.47
22:B0:1496:A:H62	26:BA:194:VAL:HG22	1.75	0.47
22:B0:1497:U:C1'	26:BA:83:ASP:HB2	2.45	0.47
22:B0:1944:U:H4'	22:B0:1955:U:O2'	2.14	0.47
22:B0:2565:A:H2'	22:B0:2566:A:H1'	1.96	0.47
22:B0:2632:A:H61	22:B0:2785:C:N4	2.12	0.47
22:B0:2776:A:C5'	22:B0:2777:G:OP1	2.52	0.47
22:B0:2822:G:H2'	22:B0:2823:A:H5''	1.97	0.47
22:B0:2841:C:H2'	22:B0:2842:G:C8	2.49	0.47
22:B0:2897:U:H1'	33:BH:16:TYR:CG	2.50	0.47
24:B2:117:PRO:HA	24:B2:120:MET:HG2	1.97	0.47
25:B5:28:GLU:O	25:B5:29:LYS:C	2.52	0.47
27:BB:4:LEU:HG	27:BB:5:VAL:N	2.30	0.47
27:BB:136:ASN:C	27:BB:138:LEU:H	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:BC:31:VAL:CG1	35:BJ:17:LYS:HB3	2.43	0.47
28:BC:63:LYS:HB2	28:BC:63:LYS:HZ3	1.79	0.47
28:BC:130:LYS:O	28:BC:160:ALA:HB1	2.13	0.47
28:BC:134:LEU:O	28:BC:138:LEU:HG	2.14	0.47
30:BE:84:LYS:HE3	30:BE:141:GLY:HA2	1.97	0.47
31:BF:123:ARG:CA	31:BF:123:ARG:HH11	2.27	0.47
32:BG:73:PRO:HA	32:BG:77:VAL:HG22	1.96	0.47
32:BG:91:LYS:HG2	32:BG:91:LYS:O	2.15	0.47
37:BL:41:ALA:CA	37:BL:44:LEU:HB2	2.45	0.47
37:BL:73:ASN:O	37:BL:76:VAL:HG12	2.15	0.47
39:BN:55:HIS:CD2	39:BN:56:SER:H	2.33	0.47
40:BO:14:LYS:NZ	40:BO:14:LYS:HB3	2.30	0.47
40:BO:46:TYR:N	40:BO:46:TYR:CD1	2.83	0.47
40:BO:106:THR:O	40:BO:109:VAL:HG22	2.15	0.47
40:BO:113:LYS:O	40:BO:116:LEU:HD22	2.15	0.47
41:BQ:25:ARG:NE	41:BQ:25:ARG:N	2.54	0.47
41:BQ:99:ARG:HH11	41:BQ:99:ARG:HG3	1.79	0.47
41:BQ:110:ARG:HA	41:BQ:110:ARG:NE	2.29	0.47
43:BS:38:ILE:HD12	43:BS:64:ILE:HG12	1.96	0.47
46:BW:39:GLN:CA	46:BW:39:GLN:NE2	2.75	0.47
1:AA:39:G:H2'	1:AA:40:C:C6	2.50	0.47
1:AA:103:U:H2'	1:AA:104:G:H8	1.80	0.47
1:AA:418:C:C6	1:AA:540:G:O3'	2.66	0.47
1:AA:492:C:H2'	1:AA:494:G:O4'	2.15	0.47
1:AA:939:G:N2	1:AA:1344:C:N3	2.63	0.47
1:AA:1310:G:H1	1:AA:1327:C:N4	2.13	0.47
1:AA:1477:U:H2'	1:AA:1478:U:C6	2.49	0.47
4:AC:51:VAL:O	4:AC:51:VAL:HG13	2.14	0.47
4:AC:69:THR:O	4:AC:104:GLU:HA	2.15	0.47
6:AE:45:VAL:HG11	6:AE:113:VAL:HG13	1.95	0.47
6:AE:82:HIS:CD2	9:AH:95:MET:HG3	2.50	0.47
7:AF:88:MET:N	7:AF:88:MET:SD	2.88	0.47
9:AH:51:GLU:HG3	9:AH:52:GLY:N	2.30	0.47
10:AI:20:ILE:HG12	10:AI:62:LEU:CD2	2.45	0.47
10:AI:79:ARG:HD2	10:AI:102:PHE:CD1	2.49	0.47
21:AT:50:PHE:CD1	21:AT:78:LEU:HD22	2.50	0.47
21:AT:84:LYS:HE3	21:AT:84:LYS:CA	2.42	0.47
22:B0:215:G:H5''	22:B0:216:A:OP1	2.15	0.47
22:B0:486:C:O2'	41:BQ:57:ASN:HB2	2.15	0.47
22:B0:495:G:N2	41:BQ:57:ASN:ND2	2.62	0.47
22:B0:517:C:H2'	22:B0:518:G:C8	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:604:G:H2'	22:B0:605:G:H8	1.80	0.47
22:B0:629:G:H4'	22:B0:638:G:N2	2.24	0.47
22:B0:802:A:N6	28:BC:61:ARG:HD3	2.30	0.47
22:B0:899:A:H2'	22:B0:900:A:C8	2.48	0.47
22:B0:1085:A:O2'	22:B0:1104:C:H1'	2.14	0.47
22:B0:1200:C:H2'	22:B0:1201:U:N1	2.29	0.47
22:B0:1488:G:O6	26:BA:157:ALA:N	2.48	0.47
22:B0:1496:A:O4'	26:BA:190:THR:CG2	2.63	0.47
22:B0:1696:G:H2'	22:B0:1697:G:O4'	2.14	0.47
22:B0:1833:C:H2'	22:B0:1834:U:C6	2.50	0.47
22:B0:1846:G:H2'	22:B0:1847:A:C8	2.50	0.47
22:B0:2067:G:H1	22:B0:2442:C:H42	1.63	0.47
22:B0:2116:G:OP1	22:B0:2117:A:C4'	2.63	0.47
22:B0:2132:U:OP2	24:B2:7:MET:CE	2.62	0.47
22:B0:2138:G:C4'	22:B0:2139:U:O5'	2.63	0.47
22:B0:2176:A:C3'	24:B2:166:LYS:HA	2.37	0.47
22:B0:2323:G:H21	22:B0:2337:G:C4'	2.28	0.47
22:B0:2333:A:C5'	22:B0:2334:U:OP1	2.55	0.47
22:B0:2458:G:H2'	22:B0:2490:G:H22	1.80	0.47
22:B0:2520:C:O2	22:B0:2520:C:H2'	2.14	0.47
22:B0:2550:G:H22	22:B0:2558:C:N4	2.12	0.47
22:B0:2668:G:H2'	22:B0:2669:G:C8	2.50	0.47
22:B0:2700:A:H3'	22:B0:2702:G:C5'	2.45	0.47
22:B0:2705:A:H2'	22:B0:2707:U:O4'	2.15	0.47
22:B0:2718:G:H2'	22:B0:2719:G:C8	2.50	0.47
25:B5:59:LYS:HD3	25:B5:116:GLU:OE2	2.14	0.47
28:BC:63:LYS:O	28:BC:65:THR:HG23	2.14	0.47
32:BG:35:MET:CE	32:BG:36:GLU:HG2	2.45	0.47
34:BI:99:ILE:HD13	34:BI:99:ILE:C	2.34	0.47
37:BL:34:ILE:HD13	37:BL:113:ILE:HB	1.96	0.47
40:BO:17:LEU:HD11	40:BO:31:TYR:HD1	1.80	0.47
42:BR:9:LYS:HA	46:BW:29:ARG:CZ	2.45	0.47
49:B1:6:GLU:HB3	49:B1:26:LYS:CB	2.45	0.47
1:AA:61:G:H2'	1:AA:62:U:O4'	2.14	0.47
1:AA:140:U:H2'	1:AA:141:G:C8	2.49	0.47
1:AA:156:C:H2'	1:AA:157:U:C6	2.50	0.47
1:AA:247:G:O2'	1:AA:248:C:H5'	2.15	0.47
1:AA:415:A:N6	1:AA:416:G:C6	2.83	0.47
1:AA:418:C:H6	1:AA:540:G:O3'	1.96	0.47
1:AA:554:A:H2'	1:AA:555:U:C6	2.50	0.47
1:AA:673:A:H2'	1:AA:674:G:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:687:A:O2'	1:AA:688:G:P	2.73	0.47
1:AA:751:U:H3	1:AA:754:C:H42	1.62	0.47
1:AA:810:C:O2'	1:AA:811:C:H5'	2.15	0.47
1:AA:827:U:C5'	9:AH:15:ASN:HD21	2.21	0.47
1:AA:1215:G:H8	1:AA:1215:G:OP2	1.97	0.47
3:AB:135:MET:O	3:AB:139:GLU:HG3	2.15	0.47
4:AC:46:LEU:N	4:AC:46:LEU:HD22	2.30	0.47
7:AF:50:PRO:O	7:AF:51:ILE:O	2.33	0.47
8:AG:78:ARG:HG3	8:AG:83:THR:CG2	2.35	0.47
12:AK:85:VAL:HG11	12:AK:92:ARG:HD2	1.96	0.47
12:AK:121:ARG:HH11	12:AK:121:ARG:HG3	1.80	0.47
12:AK:122:PRO:HA	12:AK:123:PRO:HD3	1.79	0.47
14:AM:16:ILE:O	14:AM:19:THR:N	2.49	0.47
14:AM:68:LEU:O	14:AM:68:LEU:HD23	2.15	0.47
22:B0:226:A:N6	22:B0:410:G:H1'	2.30	0.47
22:B0:362:A:H4'	22:B0:363:G:OP1	2.14	0.47
22:B0:516:C:H2'	22:B0:517:C:C6	2.50	0.47
22:B0:535:G:H1'	40:BO:52:ARG:HD2	1.97	0.47
22:B0:710:U:H2'	22:B0:711:G:C8	2.50	0.47
22:B0:926:G:HO2'	22:B0:928:A:P	2.36	0.47
22:B0:987:C:H1'	22:B0:1001:A:H4'	1.97	0.47
22:B0:1022:G:O5'	22:B0:1023:U:O5'	2.32	0.47
22:B0:1046:A:C2	25:B5:24:SER:O	2.67	0.47
22:B0:1418:G:O6	26:BA:101:ARG:HB2	2.15	0.47
22:B0:1488:G:N7	26:BA:158:GLY:HA3	2.29	0.47
22:B0:1939:U:C4'	22:B0:2592:G:H5'	2.42	0.47
22:B0:2093:G:N2	22:B0:2197:U:H1'	2.29	0.47
22:B0:2127:G:C8	22:B0:2166:U:H5'	2.49	0.47
22:B0:2164:C:O2'	22:B0:2165:C:O2	2.23	0.47
22:B0:2660:A:H2'	22:B0:2661:G:O4'	2.15	0.47
23:B9:24:G:H2'	23:B9:26:C:C4	2.49	0.47
24:B2:8:ARG:O	24:B2:12:GLU:HG3	2.15	0.47
25:B3:49:GLU:HA	25:B3:51:LYS:CE	2.45	0.47
26:BA:100:ARG:O	26:BA:101:ARG:CG	2.62	0.47
26:BA:109:LEU:HD22	26:BA:109:LEU:N	2.30	0.47
27:BB:83:ARG:HG3	27:BB:83:ARG:NH1	2.29	0.47
28:BC:34:ALA:CB	35:BJ:19:LEU:H	2.03	0.47
29:BD:129:MET:CG	29:BD:152:ASP:HB3	2.44	0.47
30:BE:8:VAL:C	30:BE:48:THR:HG23	2.35	0.47
30:BE:140:ILE:HD12	30:BE:140:ILE:C	2.35	0.47
31:BF:42:LYS:N	31:BF:42:LYS:HD2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:BF:72:ILE:C	31:BF:74:ALA:H	2.19	0.47
33:BH:117:ALA:O	33:BH:121:LYS:HG2	2.14	0.47
34:BI:22:ILE:HD11	34:BI:42:THR:CG2	2.43	0.47
35:BJ:105:ILE:HG13	35:BJ:106:GLU:OE2	2.14	0.47
36:BK:18:ARG:HH11	36:BK:50:ARG:HG3	1.79	0.47
36:BK:32:GLY:HA2	36:BK:104:GLU:HA	1.96	0.47
39:BN:50:ARG:HD3	39:BN:62:LYS:HB2	1.97	0.47
41:BQ:10:ALA:HA	41:BQ:11:ARG:HE	1.79	0.47
42:BR:24:MET:CG	42:BR:30:ILE:HD13	2.45	0.47
44:BT:2:PHE:HB3	44:BT:50:MET:HE1	1.96	0.47
49:B1:7:LYS:HD3	49:B1:7:LYS:N	2.30	0.47
1:AA:163:C:H2'	1:AA:164:G:H8	1.80	0.46
1:AA:187:G:N2	1:AA:191:G:H1'	2.29	0.46
1:AA:714:G:H2'	1:AA:715:A:C8	2.50	0.46
1:AA:817:C:O2'	1:AA:818:G:H5''	2.14	0.46
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.50	0.46
1:AA:1117:A:O4'	10:AI:107:ALA:HB2	2.14	0.46
1:AA:1447:A:H2'	1:AA:1447:A:N3	2.30	0.46
1:AA:1451:U:H5''	1:AA:1452:C:C5	2.48	0.46
3:AB:150:ILE:HG13	3:AB:150:ILE:O	2.15	0.46
5:AD:128:VAL:HG22	5:AD:145:ARG:HD3	1.96	0.46
6:AE:10:LEU:HD21	6:AE:38:VAL:CB	2.45	0.46
6:AE:39:GLY:HA3	6:AE:116:VAL:HB	1.97	0.46
8:AG:57:GLU:H	8:AG:57:GLU:CD	2.19	0.46
9:AH:86:LYS:CE	9:AH:91:LEU:HG	2.44	0.46
17:AP:35:ARG:HD2	17:AP:35:ARG:N	2.23	0.46
21:AT:24:ARG:O	21:AT:27:MET:HB3	2.15	0.46
22:B0:185:G:H4'	22:B0:218:A:C4'	2.44	0.46
22:B0:278:A:O4'	22:B0:362:A:N3	2.48	0.46
22:B0:535:G:H2'	22:B0:536:G:C8	2.50	0.46
22:B0:571:U:C5'	22:B0:572:A:OP1	2.63	0.46
22:B0:582:A:H5''	40:BO:10:ARG:CD	2.45	0.46
22:B0:636:G:O3'	22:B0:637:A:H4'	2.14	0.46
22:B0:811:U:C2	22:B0:1251:C:H1'	2.50	0.46
22:B0:942:G:H5''	35:BJ:42:SER:OG	2.15	0.46
22:B0:1328:A:H4'	22:B0:1329:U:H5	1.80	0.46
22:B0:1417:U:C5	26:BA:100:ARG:N	2.83	0.46
22:B0:1565:C:O2	22:B0:1567:G:O4'	2.33	0.46
22:B0:1698:A:C1'	22:B0:1700:A:H5''	2.45	0.46
22:B0:1816:C:H1'	26:BA:49:THR:OG1	2.14	0.46
22:B0:1899:A:H4'	22:B0:1901:A:OP2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1996:C:O2'	22:B0:1997:C:P	2.73	0.46
22:B0:2320:U:O2	22:B0:2320:U:C2'	2.58	0.46
22:B0:2855:C:H3'	22:B0:2856:A:H5''	1.96	0.46
22:B0:2894:U:H5'	33:BH:6:ALA:CB	2.20	0.46
24:B2:5:LYS:C	24:B2:7:MET:H	2.17	0.46
24:B2:99:LEU:HD12	24:B2:99:LEU:N	2.30	0.46
27:BB:13:ARG:HG2	27:BB:14:ILE:N	2.30	0.46
28:BC:28:VAL:O	28:BC:31:VAL:HB	2.14	0.46
32:BG:58:ILE:HD12	32:BG:58:ILE:N	2.31	0.46
32:BG:102:ARG:NH1	32:BG:102:ARG:HB3	2.30	0.46
34:BI:87:LEU:C	34:BI:87:LEU:HD12	2.35	0.46
36:BK:50:ARG:HD2	36:BK:50:ARG:C	2.35	0.46
37:BL:64:ARG:HH22	37:BL:67:PHE:CB	2.06	0.46
40:BO:46:TYR:O	40:BO:47:ARG:NH1	2.48	0.46
40:BO:102:LYS:NZ	40:BO:103:VAL:HG13	2.30	0.46
42:BR:18:GLU:HA	42:BR:21:SER:OG	2.15	0.46
42:BR:39:THR:C	42:BR:40:LYS:HE3	2.36	0.46
42:BR:93:LEU:O	42:BR:94:ASP:HB3	2.15	0.46
43:BS:57:ILE:O	43:BS:57:ILE:HG23	2.15	0.46
44:BT:73:LYS:HZ3	44:BT:94:ALA:HB2	1.80	0.46
49:B1:35:LEU:HD23	49:B1:50:GLU:OE2	2.15	0.46
1:AA:47:C:H1'	1:AA:365:U:H3	1.79	0.46
1:AA:68:G:H1	1:AA:101:A:N6	2.13	0.46
1:AA:163:C:O2'	1:AA:164:G:H5'	2.15	0.46
1:AA:358:U:H2'	1:AA:359:G:C8	2.50	0.46
1:AA:424:G:C6	1:AA:425:G:C5	3.03	0.46
1:AA:614:C:H2'	1:AA:615:G:H8	1.78	0.46
1:AA:826:C:O3'	9:AH:15:ASN:ND2	2.48	0.46
1:AA:1182:G:H4'	1:AA:1183:U:C5'	2.45	0.46
1:AA:1301:U:H4'	14:AM:12:LYS:HG2	1.97	0.46
2:AU:56:C:H2'	2:AU:57:G:H8	1.79	0.46
2:AU:63:C:H2'	2:AU:64:A:H8	1.80	0.46
2:AV:63:C:H2'	2:AV:64:A:C8	2.50	0.46
3:AB:231:GLN:HG2	3:AB:233:GLU:H	1.80	0.46
5:AD:10:LEU:O	5:AD:14:GLU:HG2	2.14	0.46
5:AD:54:LEU:C	5:AD:54:LEU:HD23	2.35	0.46
6:AE:10:LEU:HD23	6:AE:10:LEU:C	2.35	0.46
7:AF:39:LEU:CD2	7:AF:62:MET:HG2	2.40	0.46
7:AF:45:ARG:HB2	7:AF:59:TYR:CE1	2.50	0.46
13:AL:33:CYS:SG	13:AL:77:SER:HB2	2.55	0.46
16:AO:56:LEU:HD23	22:B0:715:A:C8	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AO:81:ILE:HD12	16:AO:81:ILE:H	1.80	0.46
18:AQ:58:VAL:HG12	18:AQ:77:VAL:HG13	1.97	0.46
18:AQ:61:ARG:CG	18:AQ:75:VAL:HG21	2.45	0.46
21:AT:81:GLN:O	21:AT:85:LEU:HD13	2.16	0.46
22:B0:781:A:H1'	22:B0:1789:A:C4'	2.40	0.46
22:B0:856:G:H4'	45:BU:54:ARG:HD2	1.96	0.46
22:B0:960:A:C2	22:B0:2497:A:C5'	2.99	0.46
22:B0:977:G:O2'	22:B0:1001:A:N3	2.44	0.46
22:B0:1109:C:N4	22:B0:1110:G:N2	2.63	0.46
22:B0:1138:G:H2'	22:B0:1139:G:O4'	2.15	0.46
22:B0:1385:A:H2	22:B0:1402:U:H3	1.62	0.46
22:B0:1424:G:H2'	22:B0:1425:G:O4'	2.15	0.46
22:B0:1488:G:O4'	26:BA:198:GLU:HA	2.14	0.46
22:B0:1834:U:O2	22:B0:1969:A:H2	1.97	0.46
22:B0:2109:U:O2'	22:B0:2110:G:C5'	2.63	0.46
22:B0:2129:C:OP1	22:B0:2165:C:O2	2.34	0.46
22:B0:2644:G:H1'	22:B0:2645:G:O4'	2.15	0.46
22:B0:2819:G:O2'	22:B0:2820:A:P	2.73	0.46
22:B0:2864:G:H2'	22:B0:2865:U:C6	2.51	0.46
23:B9:16:G:H2'	23:B9:17:C:C5'	2.45	0.46
24:B2:93:LEU:N	24:B2:93:LEU:HD12	2.30	0.46
26:BA:71:ASP:HB2	26:BA:119:VAL:N	2.27	0.46
28:BC:44:ARG:HA	28:BC:90:GLN:N	2.29	0.46
28:BC:182:ALA:HA	35:BJ:16:GLY:CA	2.36	0.46
31:BF:15:LEU:HD22	31:BF:15:LEU:N	2.30	0.46
32:BG:81:LYS:HE2	32:BG:81:LYS:CA	2.44	0.46
37:BL:22:ARG:HD2	37:BL:22:ARG:N	2.30	0.46
37:BL:23:ASN:O	37:BL:24:MET:HB2	2.15	0.46
37:BL:40:LYS:CG	37:BL:41:ALA:H	2.27	0.46
37:BL:94:TYR:CD1	37:BL:94:TYR:N	2.83	0.46
39:BN:24:THR:N	39:BN:49:ILE:HG12	2.30	0.46
39:BN:28:LYS:HE2	39:BN:86:LYS:HB3	1.97	0.46
39:BN:47:ILE:HG22	39:BN:48:ALA:N	2.26	0.46
39:BN:63:ILE:CD1	39:BN:74:GLN:HG2	2.45	0.46
39:BN:96:LEU:O	39:BN:97:TYR:CB	2.60	0.46
41:BQ:16:LYS:NZ	41:BQ:18:ARG:HH12	2.12	0.46
45:BU:17:ALA:CB	45:BU:35:ILE:HA	2.45	0.46
45:BU:78:PHE:CG	45:BU:79:ILE:N	2.83	0.46
1:AA:61:G:O2'	1:AA:62:U:H5'	2.15	0.46
1:AA:149:A:H2'	1:AA:150:U:C6	2.51	0.46
1:AA:313:A:H2'	1:AA:314:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:902:G:O2'	1:AA:903:G:H5'	2.15	0.46
1:AA:934:C:C5'	1:AA:935:A:OP1	2.62	0.46
1:AA:945:G:H5'	1:AA:945:G:H8	1.80	0.46
1:AA:1402:C:O2'	1:AA:1403:C:H5'	2.15	0.46
2:AW:16:U:H4'	2:AW:17:U:O5'	2.16	0.46
5:AD:52:VAL:O	5:AD:56:GLU:HB2	2.14	0.46
5:AD:88:ASN:O	5:AD:92:LEU:HD13	2.16	0.46
5:AD:166:LYS:HB3	5:AD:167:PRO:HD2	1.96	0.46
6:AE:87:VAL:O	6:AE:87:VAL:HG23	2.14	0.46
8:AG:27:ASN:O	8:AG:30:MET:HB3	2.16	0.46
11:AJ:71:LEU:N	11:AJ:71:LEU:HD12	2.30	0.46
11:AJ:80:THR:H	11:AJ:83:THR:HB	1.80	0.46
22:B0:49:A:N6	22:B0:177:G:C2	2.84	0.46
22:B0:460:A:H5''	42:BR:72:GLN:HB2	1.97	0.46
22:B0:529:A:N7	22:B0:2042:A:C2	2.78	0.46
22:B0:609:A:H3'	22:B0:610:C:C6	2.50	0.46
22:B0:633:A:H2'	22:B0:634:C:H5'	1.96	0.46
22:B0:664:G:H2'	22:B0:665:U:C6	2.51	0.46
22:B0:826:U:H1'	35:BJ:55:MET:CE	2.45	0.46
22:B0:978:G:O2'	22:B0:979:A:H5'	2.16	0.46
22:B0:1107:G:H2'	22:B0:1108:U:C6	2.51	0.46
22:B0:1171:G:N1	22:B0:1178:C:N4	2.63	0.46
22:B0:1181:U:H2'	22:B0:1182:G:C8	2.51	0.46
22:B0:1344:U:O2'	22:B0:1384:A:H2'	2.14	0.46
22:B0:1410:G:O2'	22:B0:1411:U:P	2.73	0.46
22:B0:1422:G:P	26:BA:57:HIS:HB3	2.54	0.46
22:B0:1489:U:H5'	26:BA:200:MET:SD	2.56	0.46
22:B0:1540:A:O5'	22:B0:1540:A:C8	2.66	0.46
22:B0:1579:A:C8	26:BA:65:ASP:C	2.88	0.46
22:B0:1758:U:O2	22:B0:1758:U:C2'	2.62	0.46
22:B0:2142:A:H2'	22:B0:2142:A:N3	2.29	0.46
22:B0:2161:C:H6	24:B2:5:LYS:HB3	1.80	0.46
22:B0:2215:C:H2'	22:B0:2216:G:H8	1.80	0.46
22:B0:2262:U:O5'	22:B0:2262:U:H6	1.98	0.46
22:B0:2288:A:H8	22:B0:2288:A:OP1	1.98	0.46
22:B0:2688:G:H21	22:B0:2721:A:H62	1.62	0.46
22:B0:2788:C:H2'	22:B0:2891:A:C5	2.50	0.46
22:B0:2848:G:H1'	22:B0:2868:A:H61	1.80	0.46
28:BC:60:TRP:HD1	28:BC:62:GLN:HG3	1.80	0.46
28:BC:88:ARG:HB2	35:BJ:30:THR:CB	2.42	0.46
28:BC:136:GLN:HE21	28:BC:136:GLN:HA	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:65:LEU:H	29:BD:88:VAL:HG21	1.80	0.46
30:BE:114:HIS:HB2	30:BE:150:TYR:CE2	2.50	0.46
31:BF:11:ASN:O	31:BF:12:LEU:HD22	2.15	0.46
31:BF:123:ARG:HH11	31:BF:123:ARG:HA	1.79	0.46
33:BH:138:GLN:NE2	33:BH:138:GLN:H	2.14	0.46
36:BK:126:ILE:HD13	36:BK:126:ILE:C	2.35	0.46
38:BM:62:LEU:HD23	38:BM:62:LEU:C	2.35	0.46
39:BN:79:VAL:HG22	39:BN:80:VAL:N	2.29	0.46
40:BO:6:GLY:C	40:BO:8:ILE:H	2.18	0.46
41:BQ:8:ARG:HG2	41:BQ:9:HIS:CD2	2.48	0.46
42:BR:11:LEU:HB2	42:BR:32:LEU:CD2	2.45	0.46
42:BR:77:ARG:HH11	42:BR:77:ARG:HG2	1.81	0.46
45:BU:66:VAL:CG2	45:BU:67:LYS:H	2.15	0.46
1:AA:142:G:O2'	1:AA:143:A:H5'	2.16	0.46
1:AA:234:C:H2'	1:AA:235:C:C6	2.51	0.46
1:AA:518:C:H4'	1:AA:519:C:H6	1.80	0.46
1:AA:572:A:H4'	1:AA:917:G:C4'	2.43	0.46
1:AA:817:C:H1'	1:AA:819:A:H5'	1.97	0.46
1:AA:979:C:C5'	20:AS:5:LYS:HZ2	2.28	0.46
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.81	0.46
2:AU:75:C:O5'	22:B0:2557:G:H5''	2.15	0.46
5:AD:10:LEU:HD22	5:AD:62:ARG:CZ	2.45	0.46
7:AF:7:VAL:CG2	7:AF:88:MET:H	2.28	0.46
8:AG:22:LEU:HD12	8:AG:22:LEU:N	2.30	0.46
8:AG:41:ILE:N	8:AG:41:ILE:HD12	2.31	0.46
8:AG:136:LYS:O	8:AG:140:VAL:HG23	2.15	0.46
15:AN:40:ARG:NH1	20:AS:14:LEU:HA	2.31	0.46
15:AN:97:LYS:HB3	15:AN:97:LYS:HZ2	1.80	0.46
16:AO:59:VAL:HG11	22:B0:715:A:C4'	2.46	0.46
20:AS:52:ASN:HD22	20:AS:52:ASN:N	2.14	0.46
21:AT:53:MET:HE2	21:AT:78:LEU:HD12	1.97	0.46
22:B0:153:U:H2'	22:B0:154:U:C6	2.50	0.46
22:B0:588:U:C6	28:BC:81:GLY:O	2.68	0.46
22:B0:589:U:OP2	28:BC:44:ARG:CB	2.63	0.46
22:B0:664:G:H2'	22:B0:665:U:H6	1.80	0.46
22:B0:961:C:C2	22:B0:2499:C:H5	2.33	0.46
22:B0:1024:G:H5'	22:B0:1025:G:C1'	2.44	0.46
22:B0:1047:G:H2'	22:B0:1110:G:N2	2.22	0.46
22:B0:1110:G:C5'	22:B0:1111:A:OP1	2.64	0.46
22:B0:1112:G:H2'	22:B0:1113:U:C6	2.51	0.46
22:B0:1495:A:OP1	26:BA:189:ALA:CB	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1974:C:H2'	22:B0:1975:G:O4'	2.15	0.46
22:B0:2119:A:C2'	22:B0:2121:G:H5'	2.45	0.46
22:B0:2176:A:H5'	24:B2:166:LYS:HA	1.98	0.46
22:B0:2685:G:H2'	22:B0:2686:G:C8	2.50	0.46
22:B0:2789:C:C5'	22:B0:2892:G:H21	2.28	0.46
22:B0:2836:U:H2'	22:B0:2837:A:C8	2.51	0.46
22:B0:2900:C:H41	33:BH:138:GLN:C	2.19	0.46
24:B2:5:LYS:C	24:B2:7:MET:N	2.68	0.46
24:B2:127:GLY:HA3	24:B2:136:MET:CE	2.45	0.46
25:B3:4:LYS:HE3	25:B3:7:ILE:HD12	1.98	0.46
25:B5:19:VAL:HG13	25:B5:20:VAL:N	2.31	0.46
26:BA:62:ARG:O	26:BA:64:VAL:HG23	2.14	0.46
26:BA:140:VAL:C	26:BA:141:HIS:HD2	2.18	0.46
26:BA:141:HIS:O	26:BA:142:ASN:C	2.53	0.46
27:BB:119:ALA:HB1	27:BB:123:LYS:HE2	1.98	0.46
27:BB:179:ARG:HG2	27:BB:180:VAL:N	2.30	0.46
32:BG:52:LEU:HD11	32:BG:73:PRO:HB2	1.96	0.46
32:BG:109:ALA:O	32:BG:110:GLN:HB2	2.14	0.46
33:BH:1:MET:HG3	33:BH:2:LYS:HG3	1.96	0.46
33:BH:101:ILE:HD11	33:BH:124:VAL:HB	1.96	0.46
37:BL:113:ILE:HD12	37:BL:113:ILE:N	2.22	0.46
38:BM:15:ARG:H	38:BM:15:ARG:CZ	2.28	0.46
41:BQ:36:LEU:HD21	41:BQ:48:LYS:HA	1.96	0.46
42:BR:7:LEU:HB3	46:BW:26:PHE:HD2	1.79	0.46
43:BS:44:HIS:HE2	43:BS:46:LYS:HD2	1.81	0.46
45:BU:38:ARG:O	45:BU:39:GLN:HB2	2.16	0.46
46:BW:44:LYS:O	46:BW:47:ARG:HG2	2.15	0.46
47:BX:28:LEU:HD11	47:BX:35:VAL:CG1	2.45	0.46
49:B1:46:VAL:HG12	49:B1:47:ILE:N	2.31	0.46
1:AA:35:G:H2'	1:AA:36:C:C6	2.50	0.46
1:AA:335:C:H2'	1:AA:336:A:C8	2.49	0.46
1:AA:792:A:H4'	1:AA:793:U:H5'	1.95	0.46
1:AA:831:A:H2'	1:AA:832:G:C8	2.50	0.46
1:AA:848:C:H2'	1:AA:849:G:H8	1.79	0.46
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.51	0.46
1:AA:1317:C:C2'	1:AA:1318:A:H5'	2.45	0.46
2:AW:40:C:H2'	2:AW:41:U:C6	2.51	0.46
3:AB:99:MET:HA	3:AB:106:VAL:HG21	1.96	0.46
10:AI:11:ARG:NE	10:AI:12:LYS:HE3	2.30	0.46
11:AJ:32:THR:HG21	11:AJ:83:THR:HA	1.97	0.46
12:AK:18:GLY:H	12:AK:81:LEU:HD23	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:95:THR:O	12:AK:99:LEU:HG	2.16	0.46
13:AL:42:LYS:HE3	13:AL:44:PRO:HG3	1.97	0.46
15:AN:63:CYS:HB3	15:AN:68:ARG:H	1.80	0.46
17:AP:36:VAL:HG22	17:AP:52:LEU:O	2.16	0.46
17:AP:77:GLU:O	17:AP:78:VAL:HG22	2.15	0.46
22:B0:150:U:H2'	22:B0:151:C:C6	2.49	0.46
22:B0:188:G:H2'	22:B0:189:G:O4'	2.16	0.46
22:B0:301:G:C4'	22:B0:302:C:OP1	2.59	0.46
22:B0:504:A:OP2	22:B0:504:A:H4'	2.15	0.46
22:B0:593:U:H3	22:B0:664:G:H22	1.63	0.46
22:B0:705:A:N6	22:B0:726:G:O2'	2.49	0.46
22:B0:802:A:C6	28:BC:61:ARG:NH1	2.81	0.46
22:B0:821:A:H2'	22:B0:946:C:H5''	1.96	0.46
22:B0:837:C:N3	22:B0:942:G:C6	2.84	0.46
22:B0:1143:A:H4'	22:B0:1144:A:OP1	2.14	0.46
22:B0:1264:A:C2	22:B0:2016:U:O4	2.68	0.46
22:B0:1580:A:O5'	26:BA:68:ARG:CB	2.61	0.46
22:B0:1580:A:N7	26:BA:68:ARG:HG2	2.31	0.46
22:B0:1633:G:H1	22:B0:1635:A:H1'	1.80	0.46
22:B0:1669:A:H2'	22:B0:1670:C:H5'	1.96	0.46
22:B0:1996:C:C6	27:BB:137:SER:O	2.69	0.46
22:B0:2065:C:O2'	22:B0:2066:C:H5'	2.16	0.46
24:B2:149:ALA:O	24:B2:153:LYS:HG3	2.15	0.46
25:B5:56:VAL:HG13	25:B5:117:VAL:HG11	1.97	0.46
26:BA:149:LYS:NZ	26:BA:152:GLN:CG	2.79	0.46
28:BC:36:ALA:HB2	35:BJ:18:ARG:CD	2.46	0.46
28:BC:92:HIS:CD2	35:BJ:25:SER:OG	2.68	0.46
29:BD:79:ARG:CB	29:BD:79:ARG:HH11	2.29	0.46
29:BD:103:ILE:HG13	29:BD:173:ASP:OD2	2.16	0.46
32:BG:27:LEU:HD12	32:BG:27:LEU:N	2.30	0.46
34:BI:95:ILE:HD13	34:BI:95:ILE:C	2.35	0.46
34:BI:114:LYS:O	34:BI:118:LEU:HD23	2.16	0.46
37:BL:50:PRO:O	37:BL:51:LEU:CB	2.58	0.46
40:BO:8:ILE:O	40:BO:9:ALA:HB3	2.15	0.46
40:BO:41:ALA:C	40:BO:43:GLN:N	2.69	0.46
40:BO:60:TRP:HB3	40:BO:91:ARG:HH12	1.80	0.46
40:BO:82:LEU:HD11	40:BO:89:ILE:O	2.16	0.46
1:AA:33:A:H4'	1:AA:364:A:O4'	2.15	0.46
1:AA:37:U:H5''	13:AL:120:ARG:NH1	2.30	0.46
1:AA:119:A:H1'	1:AA:120:A:C5	2.51	0.46
1:AA:268:U:H2'	1:AA:269:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:417:G:C2	1:AA:427:U:C2	3.03	0.46
1:AA:894:G:H2'	1:AA:895:G:H8	1.78	0.46
1:AA:958:A:H2'	1:AA:959:A:O4'	2.16	0.46
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.80	0.46
1:AA:1101:A:H5'	1:AA:1102:A:OP1	2.15	0.46
1:AA:1128:C:H2'	1:AA:1139:G:O6	2.15	0.46
1:AA:1233:G:H2'	1:AA:1234:C:C6	2.50	0.46
2:AU:14:A:H2'	2:AU:15:G:O4'	2.16	0.46
3:AB:66:ILE:HD12	3:AB:159:ALA:HB3	1.97	0.46
5:AD:20:LEU:HD22	5:AD:20:LEU:N	2.30	0.46
5:AD:88:ASN:O	5:AD:91:ALA:HB3	2.16	0.46
6:AE:140:ILE:HD12	6:AE:140:ILE:C	2.35	0.46
14:AM:80:MET:CG	14:AM:91:ARG:HE	2.28	0.46
22:B0:26:G:H2'	22:B0:27:G:O4'	2.15	0.46
22:B0:243:U:H2'	22:B0:244:A:H8	1.80	0.46
22:B0:323:C:N4	28:BC:159:LEU:O	2.49	0.46
22:B0:411:G:C5'	22:B0:412:A:OP1	2.54	0.46
22:B0:516:C:H4'	22:B0:1262:A:H4'	1.97	0.46
22:B0:762:U:C2'	22:B0:763:G:OP2	2.63	0.46
22:B0:803:U:N3	28:BC:61:ARG:CZ	2.77	0.46
22:B0:843:G:C2	22:B0:936:A:N1	2.83	0.46
22:B0:850:U:O5'	22:B0:850:U:H6	1.98	0.46
22:B0:858:G:HO2'	22:B0:859:G:P	2.39	0.46
22:B0:1045:C:C4'	25:B5:29:LYS:HE3	2.39	0.46
22:B0:1691:C:N4	22:B0:1697:G:N2	2.64	0.46
22:B0:1761:C:H2'	22:B0:1762:A:H5'	1.95	0.46
22:B0:1802:A:N6	22:B0:1817:G:N2	2.64	0.46
22:B0:2006:C:O5'	22:B0:2006:C:H6	1.99	0.46
22:B0:2181:U:H2'	22:B0:2182:U:O4'	2.16	0.46
22:B0:2545:G:H1'	22:B0:2565:A:N1	2.30	0.46
22:B0:2678:C:OP2	27:BB:124:ARG:CB	2.64	0.46
26:BA:45:ASN:OD1	26:BA:46:GLY:N	2.49	0.46
26:BA:74:PRO:HA	26:BA:116:GLN:HA	1.98	0.46
27:BB:1:MET:HA	27:BB:86:GLU:HB3	1.97	0.46
27:BB:86:GLU:C	27:BB:88:GLU:H	2.18	0.46
27:BB:123:LYS:N	27:BB:141:ARG:HE	2.13	0.46
28:BC:74:LYS:O	28:BC:76:PRO:HD3	2.15	0.46
29:BD:8:LYS:HA	29:BD:12:VAL:HG11	1.96	0.46
29:BD:119:LYS:HD2	29:BD:121:PHE:O	2.15	0.46
30:BE:116:LEU:HD23	30:BE:116:LEU:C	2.36	0.46
32:BG:33:ASN:HD22	32:BG:34:ILE:N	2.07	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:25:LEU:HD22	33:BH:25:LEU:C	2.35	0.46
35:BJ:55:MET:N	35:BJ:56:PRO:CA	2.78	0.46
35:BJ:82:LEU:HD22	35:BJ:82:LEU:N	2.31	0.46
37:BL:8:ARG:C	37:BL:8:ARG:HE	2.19	0.46
37:BL:97:ILE:HG12	37:BL:114:GLU:HG2	1.98	0.46
39:BN:34:GLY:O	39:BN:35:SER:HB2	2.16	0.46
42:BR:50:LEU:C	42:BR:52:GLU:H	2.18	0.46
43:BS:66:VAL:O	43:BS:69:VAL:HG22	2.16	0.46
44:BT:79:ARG:HG2	44:BT:79:ARG:HH11	1.80	0.46
1:AA:413:G:N7	5:AD:32:LYS:HD3	2.31	0.46
1:AA:560:A:H4'	1:AA:561:U:O5'	2.15	0.46
1:AA:717:U:C4	1:AA:734:G:N7	2.83	0.46
1:AA:1137:C:H4'	1:AA:1138:G:N1	2.30	0.46
1:AA:1302:C:H5'	14:AM:16:ILE:CB	2.45	0.46
6:AE:71:ILE:HD12	6:AE:71:ILE:C	2.36	0.46
9:AH:46:GLU:O	9:AH:47:ASP:HB2	2.15	0.46
11:AJ:24:GLU:O	11:AJ:28:THR:HG22	2.15	0.46
14:AM:15:VAL:CG2	14:AM:40:GLU:HB2	2.46	0.46
14:AM:44:ILE:HD12	14:AM:44:ILE:C	2.36	0.46
22:B0:49:A:P	22:B0:51:G:H5'	2.55	0.46
22:B0:98:G:H2'	22:B0:99:U:H5	1.80	0.46
22:B0:203:A:N1	22:B0:204:A:N6	2.64	0.46
22:B0:310:A:OP1	43:BS:67:SER:HB3	2.15	0.46
22:B0:807:U:H5'	22:B0:2445:G:O2'	2.15	0.46
22:B0:992:C:H2'	22:B0:993:G:C8	2.51	0.46
22:B0:1085:A:O2'	22:B0:1086:A:H5'	2.16	0.46
22:B0:1201:U:O5'	22:B0:1201:U:H6	1.98	0.46
22:B0:1418:G:C6	26:BA:99:GLU:HB3	2.51	0.46
22:B0:1418:G:N2	26:BA:66:PHE:CD2	2.83	0.46
22:B0:1816:C:H5''	22:B0:1817:G:OP2	2.16	0.46
22:B0:1924:C:H2'	22:B0:1925:C:C6	2.51	0.46
22:B0:2010:G:O2'	22:B0:2011:U:H5'	2.16	0.46
22:B0:2089:C:H42	22:B0:2090:A:N6	2.14	0.46
22:B0:2157:G:HO2'	22:B0:2158:A:P	2.35	0.46
22:B0:2527:C:H2'	22:B0:2528:U:O4'	2.16	0.46
22:B0:2570:G:O6	27:BB:152:PRO:HB3	2.16	0.46
22:B0:2677:G:H2'	27:BB:125:TRP:CD2	2.51	0.46
22:B0:2732:G:H2'	22:B0:2734:A:O4'	2.15	0.46
22:B0:2852:G:H2'	22:B0:2853:C:C6	2.50	0.46
22:B0:2895:C:H41	33:BH:13:ARG:HH11	1.63	0.46
23:B9:65:U:H2'	23:B9:66:A:H5'	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:B2:131:GLY:N	24:B2:132:PRO:HD2	2.31	0.46
25:B5:14:MET:HE2	25:B5:14:MET:N	2.31	0.46
26:BA:153:LEU:O	26:BA:154:ALA:C	2.54	0.46
28:BC:94:GLN:HG2	35:BJ:21:ARG:HG3	1.96	0.46
35:BJ:74:THR:HG22	35:BJ:107:PHE:CB	2.46	0.46
36:BK:35:ALA:HB2	36:BK:128:THR:HG22	1.96	0.46
37:BL:80:PHE:C	37:BL:82:GLU:N	2.69	0.46
38:BM:115:LEU:HD22	38:BM:115:LEU:N	2.30	0.46
40:BO:60:TRP:O	40:BO:95:ALA:HB1	2.15	0.46
40:BO:112:ALA:C	40:BO:114:ALA:N	2.68	0.46
41:BQ:51:LEU:O	41:BQ:55:ILE:HG23	2.16	0.46
43:BS:72:PHE:HB2	43:BS:84:PHE:HZ	1.80	0.46
45:BU:47:GLY:O	45:BU:54:ARG:HB3	2.15	0.46
47:BX:8:GLN:NE2	47:BX:15:ARG:NH2	2.64	0.46
49:B1:12:SER:OG	49:B1:50:GLU:HG3	2.15	0.46
1:AA:718:A:H2	1:AA:719:C:O4'	1.99	0.46
1:AA:812:G:O2'	1:AA:813:U:O5'	2.34	0.46
1:AA:890:G:C2'	1:AA:891:U:OP2	2.63	0.46
1:AA:977:A:N3	1:AA:977:A:C2'	2.77	0.46
1:AA:1030:U:H4'	1:AA:1031:C:H5	1.80	0.46
2:AW:17:U:H2'	2:AW:19:G:OP2	2.15	0.46
2:AW:22:G:O2'	2:AW:23:A:H5'	2.16	0.46
7:AF:8:PHE:HE1	7:AF:10:VAL:HB	1.80	0.46
9:AH:37:ASN:O	9:AH:41:GLU:HG2	2.15	0.46
15:AN:46:LYS:HD3	15:AN:46:LYS:C	2.35	0.46
18:AQ:20:ILE:O	18:AQ:45:VAL:HG22	2.15	0.46
22:B0:121:G:C4'	22:B0:149:A:H5'	2.35	0.46
22:B0:564:C:H2'	22:B0:565:C:C6	2.51	0.46
22:B0:774:G:O2'	22:B0:777:G:N3	2.47	0.46
22:B0:783:A:C4	22:B0:785:G:H1'	2.51	0.46
22:B0:819:A:O2'	22:B0:820:A:H5'	2.15	0.46
22:B0:1045:C:OP1	25:B5:29:LYS:HG3	2.15	0.46
22:B0:1167:C:H2'	22:B0:1168:G:C8	2.51	0.46
22:B0:1421:G:N3	26:BA:149:LYS:CB	2.79	0.46
22:B0:1439:A:H2'	22:B0:1440:U:O4'	2.15	0.46
22:B0:1668:A:N6	22:B0:1674:G:N3	2.64	0.46
22:B0:1787:A:H5'	22:B0:2590:A:H5'	1.97	0.46
22:B0:1844:C:H2'	22:B0:1845:G:H8	1.80	0.46
22:B0:2128:G:O5'	22:B0:2165:C:C3'	2.61	0.46
22:B0:2345:G:H1	22:B0:2380:C:N4	2.13	0.46
22:B0:2825:G:H3'	22:B0:2825:G:N3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B9:36:C:H2'	23:B9:37:C:C6	2.51	0.46
25:B3:98:VAL:HB	25:B3:102:ASP:HB3	1.96	0.46
25:B5:68:VAL:O	25:B5:72:VAL:HG23	2.16	0.46
26:BA:124:LYS:O	26:BA:126:GLY:N	2.49	0.46
27:BB:40:LEU:HD13	27:BB:49:GLN:HA	1.97	0.46
27:BB:123:LYS:CB	27:BB:141:ARG:HE	2.25	0.46
28:BC:87:ALA:O	28:BC:88:ARG:CG	2.63	0.46
28:BC:108:ILE:HG13	28:BC:181:ILE:HG12	1.98	0.46
29:BD:39:VAL:HG23	29:BD:39:VAL:O	2.16	0.46
29:BD:56:LEU:HD22	29:BD:56:LEU:N	2.30	0.46
30:BE:42:VAL:HG23	30:BE:42:VAL:O	2.15	0.46
32:BG:9:LYS:HE2	32:BG:10:LEU:H	1.80	0.46
34:BI:87:LEU:HD12	34:BI:87:LEU:O	2.16	0.46
35:BJ:134:ALA:CB	35:BJ:135:ILE:HD13	2.46	0.46
36:BK:11:LYS:HB2	36:BK:11:LYS:NZ	2.31	0.46
36:BK:40:ARG:HD3	36:BK:40:ARG:N	2.31	0.46
37:BL:12:ARG:HA	37:BL:12:ARG:NE	2.31	0.46
39:BN:31:VAL:HG22	39:BN:32:VAL:N	2.30	0.46
41:BQ:25:ARG:H	41:BQ:25:ARG:CD	2.29	0.46
45:BU:35:ILE:CG2	45:BU:70:VAL:HG21	2.44	0.46
1:AA:99:C:N4	1:AA:101:A:H62	2.14	0.46
1:AA:356:A:H2'	1:AA:357:G:O4'	2.16	0.46
1:AA:407:U:H2'	1:AA:408:A:C8	2.51	0.46
1:AA:420:U:OP1	1:AA:512:U:C1'	2.61	0.46
1:AA:448:A:H62	1:AA:486:U:H3	1.64	0.46
1:AA:888:G:H2'	1:AA:889:A:C8	2.51	0.46
1:AA:925:G:H1	1:AA:1391:U:H3	1.63	0.46
1:AA:1238:A:H2	1:AA:1242:G:H1'	1.80	0.46
1:AA:1297:G:N3	8:AG:115:MET:HG3	2.31	0.46
2:AU:16:U:P	2:AU:16:U:H6	2.39	0.46
2:AU:74:C:H2'	22:B0:2557:G:C5'	2.46	0.46
2:AU:75:C:H5''	22:B0:2557:G:H8	1.78	0.46
2:AW:63:C:H2'	2:AW:64:A:C8	2.50	0.46
3:AB:14:HIS:HE1	3:AB:211:LEU:HD23	1.77	0.46
15:AN:73:LEU:CD1	15:AN:75:LYS:HB2	2.45	0.46
18:AQ:11:VAL:HG13	18:AQ:20:ILE:CG2	2.46	0.46
20:AS:22:VAL:HG12	20:AS:22:VAL:O	2.16	0.46
22:B0:24:G:H2'	22:B0:25:U:C6	2.51	0.46
22:B0:354:A:H2'	22:B0:355:U:O4'	2.16	0.46
22:B0:481:G:N2	22:B0:509:C:H1'	2.31	0.46
22:B0:589:U:OP1	28:BC:43:THR:CA	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:749:A:C3'	22:B0:750:A:H5'	2.46	0.46
22:B0:821:A:H2'	22:B0:946:C:OP2	2.16	0.46
22:B0:994:C:H2'	22:B0:996:A:C8	2.51	0.46
22:B0:1037:G:H2'	22:B0:1038:G:C8	2.51	0.46
22:B0:1153:C:H5''	40:BO:61:ILE:CD1	2.45	0.46
22:B0:1497:U:H5''	22:B0:1498:C:OP1	2.15	0.46
22:B0:1666:G:C2'	22:B0:1667:G:H5'	2.46	0.46
22:B0:1670:C:H2'	22:B0:1671:U:H5'	1.97	0.46
22:B0:1748:C:H2'	22:B0:1749:A:C8	2.51	0.46
22:B0:1790:C:OP2	22:B0:1828:G:N1	2.49	0.46
22:B0:1917:U:H2'	22:B0:1918:A:C8	2.51	0.46
22:B0:1922:G:O2'	22:B0:1923:U:P	2.73	0.46
22:B0:2004:G:O2'	22:B0:2005:A:H5'	2.16	0.46
22:B0:2045:C:O2'	22:B0:2046:G:H5'	2.16	0.46
22:B0:2146:C:H2'	22:B0:2147:A:H5''	1.97	0.46
22:B0:2343:U:O2'	22:B0:2344:U:H5'	2.16	0.46
22:B0:2573:C:OP1	22:B0:2574:G:H5''	2.16	0.46
22:B0:2581:G:O2'	22:B0:2582:G:P	2.74	0.46
22:B0:2898:G:N3	33:BH:132:HIS:CE1	2.84	0.46
26:BA:249:VAL:HB	26:BA:250:GLN:OE1	2.15	0.46
27:BB:123:LYS:O	27:BB:123:LYS:HG2	2.15	0.46
27:BB:133:THR:O	27:BB:137:SER:N	2.49	0.46
28:BC:25:GLU:HA	28:BC:28:VAL:CG2	2.46	0.46
28:BC:161:ALA:O	28:BC:167:VAL:HG11	2.15	0.46
30:BE:85:LYS:CD	30:BE:131:VAL:HG12	2.46	0.46
32:BG:9:LYS:NZ	32:BG:27:LEU:HD22	2.31	0.46
33:BH:35:ARG:O	33:BH:39:LYS:HB2	2.16	0.46
34:BI:6:THR:O	34:BI:20:MET:HA	2.15	0.46
34:BI:16:ALA:HA	34:BI:46:ALA:HB2	1.98	0.46
36:BK:121:ALA:HA	36:BK:124:LEU:HD21	1.96	0.46
37:BL:24:MET:O	37:BL:44:LEU:HD13	2.16	0.46
41:BQ:25:ARG:CZ	41:BQ:26:GLY:N	2.75	0.46
43:BS:32:LYS:HD2	43:BS:63:ALA:HB1	1.97	0.46
46:BW:47:ARG:HG3	46:BW:48:ARG:CD	2.45	0.46
1:AA:429:U:OP1	1:AA:430:A:H5''	2.16	0.46
1:AA:519:C:H2'	1:AA:520:A:O4'	2.16	0.46
1:AA:792:A:H4'	1:AA:793:U:O5'	2.14	0.46
1:AA:1222:G:OP2	20:AS:2:ARG:NE	2.49	0.46
1:AA:1235:U:C3'	1:AA:1236:A:H5''	2.45	0.46
2:AU:74:C:O3'	22:B0:2556:C:C3'	2.64	0.46
5:AD:25:ARG:N	5:AD:25:ARG:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:26:THR:O	7:AF:30:THR:HG23	2.16	0.46
10:AI:10:ARG:O	10:AI:11:ARG:HB2	2.16	0.46
13:AL:79:ILE:HG13	13:AL:103:CYS:HB2	1.98	0.46
17:AP:71:VAL:HG22	17:AP:75:ILE:CD1	2.46	0.46
22:B0:71:A:H5''	22:B0:72:U:O5'	2.15	0.46
22:B0:387:U:O2'	22:B0:388:G:OP2	2.32	0.46
22:B0:447:A:N6	22:B0:473:G:N3	2.64	0.46
22:B0:518:G:H5''	41:BQ:18:ARG:NE	2.31	0.46
22:B0:791:C:H1'	22:B0:793:A:H4'	1.97	0.46
22:B0:799:G:C8	28:BC:57:LYS:N	2.78	0.46
22:B0:809:G:H4'	22:B0:1254:A:H1'	1.98	0.46
22:B0:849:A:H61	22:B0:928:A:N6	2.13	0.46
22:B0:948:C:H2'	22:B0:949:G:C8	2.51	0.46
22:B0:1494:A:O3'	26:BA:140:VAL:CG1	2.64	0.46
22:B0:1631:G:C4	22:B0:1633:G:OP2	2.69	0.46
22:B0:1892:C:H2'	22:B0:1893:C:H6	1.80	0.46
22:B0:1996:C:O2	27:BB:138:LEU:O	2.34	0.46
22:B0:2049:G:H2'	22:B0:2050:C:C5	2.50	0.46
22:B0:2110:G:HO2'	22:B0:2111:U:C1'	2.29	0.46
22:B0:2176:A:C4'	24:B2:167:ASN:H	2.28	0.46
22:B0:2271:G:H2'	22:B0:2272:U:C6	2.51	0.46
22:B0:2614:A:H8	22:B0:2614:A:OP1	1.99	0.46
23:B9:30:C:H2'	23:B9:31:C:O4'	2.16	0.46
25:B3:98:VAL:HB	25:B3:102:ASP:HB2	1.98	0.46
26:BA:57:HIS:CD2	26:BA:58:LYS:HZ3	2.34	0.46
27:BB:5:VAL:O	27:BB:83:ARG:HD3	2.16	0.46
28:BC:21:ARG:HG2	28:BC:106:LYS:HB3	1.97	0.46
28:BC:43:THR:HG22	28:BC:90:GLN:C	2.36	0.46
28:BC:118:LEU:CB	28:BC:187:VAL:HA	2.45	0.46
30:BE:11:PRO:HB2	30:BE:14:VAL:HG23	1.97	0.46
33:BH:25:LEU:HD12	33:BH:64:VAL:HA	1.98	0.46
36:BK:42:THR:HG22	36:BK:45:GLN:HE21	1.81	0.46
36:BK:84:LYS:HD3	36:BK:84:LYS:C	2.36	0.46
39:BN:63:ILE:HD11	39:BN:74:GLN:HG2	1.98	0.46
40:BO:26:ALA:C	40:BO:28:SER:H	2.20	0.46
42:BR:11:LEU:CB	42:BR:34:VAL:HG12	2.46	0.46
42:BR:93:LEU:HD21	42:BR:96:VAL:CB	2.41	0.46
1:AA:77:A:H2'	1:AA:78:A:H8	1.81	0.45
1:AA:481:G:O2'	1:AA:482:A:C4'	2.65	0.45
1:AA:572:A:C4'	1:AA:917:G:H4'	2.46	0.45
1:AA:890:G:O2'	1:AA:891:U:C6	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1015:G:H1'	1:AA:1218:C:O2'	2.15	0.45
1:AA:1182:G:O2'	1:AA:1183:U:C5'	2.64	0.45
1:AA:1384:C:H2'	1:AA:1385:G:C8	2.51	0.45
1:AA:1386:G:N9	10:AI:128:LYS:HE2	2.31	0.45
1:AA:1502:A:H2	1:AA:1505:G:N2	2.13	0.45
2:AU:53:G:H1	2:AU:61:C:N4	2.11	0.45
2:AU:59:U:H2'	2:AU:60:C:H5'	1.98	0.45
2:AV:9:A:H4'	2:AV:46:G:O4'	2.16	0.45
5:AD:54:LEU:HA	5:AD:202:LEU:CD2	2.45	0.45
5:AD:62:ARG:HG2	5:AD:62:ARG:HH11	1.81	0.45
5:AD:117:VAL:HG22	5:AD:122:ILE:HD12	1.97	0.45
9:AH:35:ILE:O	9:AH:39:LEU:HD23	2.16	0.45
15:AN:81:ILE:HD12	15:AN:82:LYS:N	2.31	0.45
19:AR:35:SER:HB2	19:AR:37:LYS:NZ	2.30	0.45
22:B0:57:C:H5''	42:BR:76:ARG:HB2	1.98	0.45
22:B0:58:G:N2	22:B0:73:A:H1'	2.31	0.45
22:B0:311:A:H61	22:B0:329:G:H5''	1.81	0.45
22:B0:393:C:H2'	22:B0:394:C:C6	2.50	0.45
22:B0:587:C:O2'	28:BC:82:GLY:O	2.35	0.45
22:B0:632:A:H2'	22:B0:633:A:C8	2.51	0.45
22:B0:825:A:OP1	22:B0:2428:G:N1	2.49	0.45
22:B0:959:A:C5	36:BK:80:VAL:O	2.69	0.45
22:B0:1324:G:H4'	22:B0:1616:A:H62	1.80	0.45
22:B0:1493:A:P	26:BA:143:VAL:CG2	3.04	0.45
22:B0:1577:C:O2'	26:BA:64:VAL:HG23	2.16	0.45
22:B0:1657:U:O2'	22:B0:1658:C:H5'	2.16	0.45
22:B0:2098:U:H2'	22:B0:2099:U:C6	2.52	0.45
22:B0:2108:A:H2'	22:B0:2109:U:C4'	2.46	0.45
22:B0:2161:C:H5	24:B2:7:MET:HG2	1.82	0.45
22:B0:2176:A:OP1	24:B2:166:LYS:C	2.55	0.45
22:B0:2786:U:O5'	22:B0:2786:U:H6	1.99	0.45
22:B0:2897:U:N3	33:BH:14:ASP:HB2	2.31	0.45
23:B9:20:G:H2'	23:B9:21:G:C8	2.51	0.45
27:BB:13:ARG:C	27:BB:13:ARG:NE	2.64	0.45
29:BD:163:GLU:C	29:BD:165:GLY:N	2.68	0.45
30:BE:45:ALA:HB3	30:BE:48:THR:O	2.16	0.45
30:BE:102:ILE:HD12	30:BE:102:ILE:C	2.37	0.45
33:BH:96:ARG:HG2	33:BH:96:ARG:HH11	1.81	0.45
34:BI:3:GLN:H	34:BI:6:THR:HG21	1.81	0.45
35:BJ:47:ARG:HB3	35:BJ:47:ARG:NH1	2.31	0.45
35:BJ:70:LYS:H	35:BJ:70:LYS:CD	2.27	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BK:11:LYS:HB2	36:BK:11:LYS:HZ2	1.82	0.45
37:BL:29:VAL:HG13	37:BL:75:ILE:HB	1.97	0.45
39:BN:42:PHE:H	39:BN:42:PHE:HD1	1.65	0.45
40:BO:35:PHE:H	40:BO:38:VAL:HG22	1.81	0.45
41:BQ:56:ALA:C	41:BQ:58:ALA:N	2.69	0.45
42:BR:42:GLU:O	42:BR:44:LYS:HG2	2.15	0.45
43:BS:10:VAL:HG12	43:BS:11:ILE:N	2.30	0.45
45:BU:33:GLY:CA	45:BU:67:LYS:HD2	2.46	0.45
47:BX:4:ILE:HG21	47:BX:56:VAL:HB	1.97	0.45
1:AA:8:A:H2	5:AD:205:LYS:HB3	1.82	0.45
1:AA:129:A:O2'	1:AA:130:A:P	2.74	0.45
1:AA:229:U:H2'	1:AA:230:G:H8	1.81	0.45
1:AA:252:U:H2'	1:AA:253:A:C8	2.50	0.45
1:AA:365:U:O2	1:AA:365:U:H2'	2.15	0.45
1:AA:408:A:H2'	1:AA:409:U:C6	2.51	0.45
1:AA:420:U:C1'	5:AD:39:GLN:NE2	2.79	0.45
1:AA:501:C:H2'	1:AA:502:A:H8	1.81	0.45
1:AA:982:U:H4'	1:AA:983:A:H5''	1.98	0.45
1:AA:1015:G:H2'	1:AA:1016:A:O4'	2.16	0.45
4:AC:133:MET:HG3	4:AC:134:LYS:N	2.31	0.45
5:AD:36:ALA:HB1	5:AD:37:PRO:HD2	1.98	0.45
5:AD:44:LYS:O	5:AD:44:LYS:HG3	2.16	0.45
5:AD:113:ALA:O	5:AD:117:VAL:HG23	2.15	0.45
8:AG:135:LYS:HD2	8:AG:135:LYS:C	2.37	0.45
11:AJ:36:VAL:HG12	11:AJ:38:GLY:H	1.80	0.45
12:AK:17:ASP:HA	12:AK:80:ASN:O	2.17	0.45
12:AK:81:LEU:O	12:AK:107:THR:HG22	2.16	0.45
17:AP:4:ILE:HG12	17:AP:21:VAL:HG13	1.97	0.45
18:AQ:13:SER:HB3	18:AQ:21:VAL:CG2	2.45	0.45
22:B0:115:C:H2'	22:B0:116:C:C6	2.51	0.45
22:B0:120:U:HO2'	22:B0:121:G:P	2.37	0.45
22:B0:310:A:H1'	22:B0:330:A:N7	2.31	0.45
22:B0:445:C:H2'	22:B0:446:G:O4'	2.16	0.45
22:B0:447:A:H1'	22:B0:449:A:N6	2.31	0.45
22:B0:931:U:O3'	22:B0:932:U:O4'	2.34	0.45
22:B0:1016:G:H2'	22:B0:1017:G:C8	2.52	0.45
22:B0:1061:U:H1'	22:B0:1070:A:C1'	2.41	0.45
22:B0:1234:U:H2'	22:B0:1235:G:O4'	2.17	0.45
22:B0:1462:U:H2'	22:B0:1463:G:C8	2.51	0.45
22:B0:1498:C:OP2	26:BA:61:TYR:O	2.34	0.45
22:B0:1786:A:H62	22:B0:2606:C:H1'	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1811:G:O2'	22:B0:1812:U:H5'	2.17	0.45
22:B0:1944:U:O4'	22:B0:1955:U:H1'	2.15	0.45
22:B0:2076:U:H6	22:B0:2076:U:OP1	2.00	0.45
22:B0:2144:G:C3'	22:B0:2145:C:H5''	2.46	0.45
22:B0:2258:C:N4	22:B0:2426:A:H4'	2.31	0.45
22:B0:2262:U:N1	45:BU:11:ASN:O	2.49	0.45
22:B0:2484:G:H5''	36:BK:44:ARG:HD3	1.99	0.45
22:B0:2849:U:C2'	22:B0:2850:A:OP2	2.64	0.45
24:B2:22:ILE:H	24:B2:22:ILE:CD1	2.29	0.45
24:B2:176:LYS:O	24:B2:184:LEU:HD21	2.14	0.45
25:B3:4:LYS:O	25:B3:8:ILE:HG12	2.16	0.45
25:B3:17:MET:O	25:B3:20:VAL:HB	2.16	0.45
25:B3:91:PRO:O	25:B3:92:ALA:HB3	2.16	0.45
28:BC:150:THR:CG2	28:BC:186:VAL:HA	2.47	0.45
33:BH:18:VAL:HG22	33:BH:32:LEU:HD21	1.97	0.45
35:BJ:54:GLN:HG2	35:BJ:55:MET:N	2.31	0.45
36:BK:4:PRO:O	36:BK:6:ARG:HG3	2.16	0.45
39:BN:55:HIS:CG	39:BN:56:SER:N	2.81	0.45
43:BS:44:HIS:NE2	43:BS:46:LYS:HD2	2.31	0.45
44:BT:77:VAL:HG13	44:BT:89:ILE:CG1	2.46	0.45
45:BU:31:LEU:HD23	45:BU:31:LEU:H	1.81	0.45
1:AA:145:G:N2	1:AA:177:G:N2	2.64	0.45
1:AA:772:U:H2'	1:AA:773:G:H8	1.81	0.45
1:AA:981:U:C5	20:AS:5:LYS:HE3	2.51	0.45
1:AA:1098:C:H2'	1:AA:1099:G:C8	2.51	0.45
1:AA:1100:C:C2'	1:AA:1101:A:OP1	2.64	0.45
1:AA:1158:C:O2	1:AA:1158:C:C2'	2.57	0.45
1:AA:1171:A:H2'	1:AA:1172:C:H6	1.81	0.45
1:AA:1278:G:H5''	1:AA:1279:G:OP1	2.16	0.45
1:AA:1431:A:H61	1:AA:1469:C:H42	1.65	0.45
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.15	0.45
1:AA:1504:G:H4'	1:AA:1505:G:C4	2.50	0.45
2:AV:55:U:O2	2:AV:57:G:OP2	2.33	0.45
5:AD:82:LYS:HD2	5:AD:82:LYS:C	2.37	0.45
5:AD:131:ILE:HG23	5:AD:131:ILE:O	2.17	0.45
6:AE:155:LYS:HB3	9:AH:68:LYS:HZ3	1.77	0.45
9:AH:6:ILE:CD1	9:AH:31:LEU:HD12	2.46	0.45
19:AR:7:ARG:HB2	19:AR:7:ARG:HH11	1.80	0.45
21:AT:8:LYS:O	21:AT:12:GLN:HG3	2.17	0.45
22:B0:311:A:HO2'	22:B0:331:C:H3'	1.81	0.45
22:B0:604:G:O2'	22:B0:605:G:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:608:A:H2'	22:B0:609:A:C8	2.52	0.45
22:B0:692:C:H2'	22:B0:693:A:H8	1.81	0.45
22:B0:1094:U:H1'	22:B0:1097:U:H5	1.80	0.45
22:B0:1125:G:N7	22:B0:1126:A:N7	2.64	0.45
22:B0:1276:A:H2'	22:B0:1277:G:H8	1.82	0.45
22:B0:1417:U:H6	26:BA:100:ARG:HB2	1.81	0.45
22:B0:1658:C:O5'	22:B0:1658:C:H6	2.00	0.45
22:B0:2145:C:C3'	22:B0:2146:C:H5''	2.47	0.45
22:B0:2455:G:H2'	22:B0:2456:C:H6	1.81	0.45
23:B9:38:C:H2'	23:B9:39:A:C8	2.52	0.45
24:B2:64:LEU:HB3	24:B2:65:PRO:CD	2.42	0.45
24:B2:138:ASN:H	24:B2:143:THR:HB	1.82	0.45
25:B5:26:MET:HE2	25:B5:38:VAL:HG21	1.98	0.45
25:B5:86:LEU:HD12	25:B5:91:PRO:HB2	1.98	0.45
26:BA:43:ASN:O	26:BA:44:ASN:O	2.35	0.45
32:BG:57:VAL:HG13	32:BG:69:VAL:HB	1.99	0.45
33:BH:24:THR:HG22	33:BH:26:GLY:N	2.27	0.45
33:BH:33:ALA:O	33:BH:36:LEU:HD23	2.16	0.45
34:BI:61:VAL:HG23	34:BI:87:LEU:HD23	1.98	0.45
37:BL:8:ARG:H	37:BL:8:ARG:HD3	1.81	0.45
39:BN:21:PRO:HG3	39:BN:61:ARG:HE	1.82	0.45
42:BR:66:LYS:HG3	42:BR:67:VAL:N	2.30	0.45
42:BR:87:LEU:HA	42:BR:88:LYS:N	2.32	0.45
45:BU:40:ARG:HA	45:BU:65:LYS:HB3	1.97	0.45
47:BX:30:ARG:HB2	47:BX:33:HIS:CE1	2.52	0.45
1:AA:6:G:N1	6:AE:102:THR:HG23	2.20	0.45
1:AA:366:A:O2'	1:AA:367:U:OP1	2.32	0.45
1:AA:518:C:H1'	1:AA:529:G:C2	2.52	0.45
1:AA:531:U:C5'	1:AA:532:A:OP1	2.58	0.45
1:AA:647:C:H2'	1:AA:648:A:C8	2.50	0.45
1:AA:729:A:H2'	1:AA:730:G:H8	1.82	0.45
1:AA:913:A:O2'	1:AA:914:A:OP2	2.32	0.45
1:AA:932:C:H42	1:AA:1385:G:H22	1.64	0.45
1:AA:933:G:C6	1:AA:1385:G:N2	2.84	0.45
1:AA:969:A:H4'	1:AA:969:A:OP1	2.16	0.45
2:AW:1:G:C5'	49:B1:2:LYS:HD2	2.46	0.45
2:AW:76:A:OP2	22:B0:2424:C:O2'	2.34	0.45
5:AD:115:GLN:NE2	5:AD:153:ARG:HH12	2.14	0.45
8:AG:114:SER:HB3	8:AG:117:LEU:HB3	1.98	0.45
13:AL:26:CYS:CB	13:AL:29:LYS:HE2	2.47	0.45
17:AP:18:GLN:HG2	17:AP:20:VAL:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AP:20:VAL:HG11	17:AP:32:PHE:CD2	2.52	0.45
19:AR:33:THR:CG2	19:AR:34:GLU:H	2.23	0.45
22:B0:439:A:H2'	22:B0:440:C:C6	2.52	0.45
22:B0:460:A:H5'	42:BR:72:GLN:HG2	1.98	0.45
22:B0:481:G:C6	22:B0:507:A:H1'	2.51	0.45
22:B0:501:A:N6	22:B0:503:A:C4	2.85	0.45
22:B0:532:A:C5'	22:B0:533:G:OP2	2.61	0.45
22:B0:587:C:H1'	28:BC:76:PRO:HA	1.99	0.45
22:B0:752:A:N6	22:B0:1781:U:HO2'	2.14	0.45
22:B0:776:G:N3	22:B0:776:G:H2'	2.32	0.45
22:B0:972:A:H2'	22:B0:973:A:C8	2.52	0.45
22:B0:1213:A:H62	22:B0:1236:G:C1'	2.29	0.45
22:B0:1261:C:H2'	22:B0:1262:A:H8	1.82	0.45
22:B0:1482:G:H2'	22:B0:1483:A:C8	2.52	0.45
22:B0:1922:G:H2'	22:B0:1923:U:C6	2.52	0.45
22:B0:1972:G:C2'	22:B0:1973:G:H8	2.24	0.45
22:B0:2136:G:N3	22:B0:2137:U:O5'	2.49	0.45
22:B0:2842:G:H2'	22:B0:2843:G:H8	1.82	0.45
23:B9:85:G:O6	23:B9:91:C:N3	2.49	0.45
25:B3:32:VAL:O	25:B3:36:ALA:HB2	2.17	0.45
25:B3:107:LYS:HE3	25:B3:117:VAL:O	2.17	0.45
25:B5:64:ASN:O	25:B5:68:VAL:HG23	2.16	0.45
26:BA:106:PRO:HD2	26:BA:109:LEU:HD23	1.98	0.45
26:BA:187:CYS:HA	26:BA:188:ARG:NE	2.31	0.45
30:BE:167:VAL:HG12	30:BE:168:VAL:N	2.31	0.45
31:BF:80:ILE:HD11	31:BF:102:ALA:HB1	1.98	0.45
37:BL:72:ASP:O	37:BL:76:VAL:HB	2.16	0.45
40:BO:64:ILE:HB	40:BO:78:PHE:CZ	2.51	0.45
40:BO:77:LYS:HG2	40:BO:77:LYS:O	2.16	0.45
45:BU:66:VAL:HG11	45:BU:73:PRO:HA	1.98	0.45
47:BX:12:ALA:HA	47:BX:15:ARG:HE	1.80	0.45
1:AA:119:A:O2'	1:AA:120:A:P	2.74	0.45
1:AA:823:C:H2'	1:AA:824:G:C8	2.52	0.45
1:AA:1108:G:H2'	1:AA:1109:C:H6	1.82	0.45
1:AA:1318:A:OP1	20:AS:41:PRO:HG2	2.16	0.45
2:AW:53:G:H1	2:AW:61:C:N4	2.13	0.45
3:AB:66:ILE:CD1	3:AB:159:ALA:HB3	2.46	0.45
4:AC:108:PRO:HB3	4:AC:114:LEU:HD13	1.97	0.45
8:AG:138:GLU:O	8:AG:142:ARG:HG3	2.17	0.45
9:AH:6:ILE:HD11	9:AH:31:LEU:HD12	1.98	0.45
11:AJ:89:ARG:HH11	11:AJ:89:ARG:CB	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:61:ALA:HA	12:AK:64:VAL:HG22	1.99	0.45
13:AL:30:ARG:HH11	13:AL:30:ARG:CB	2.30	0.45
14:AM:2:ARG:HG3	29:BD:147:ARG:NH2	2.30	0.45
16:AO:46:LYS:H	16:AO:46:LYS:CD	2.26	0.45
18:AQ:9:GLY:O	18:AQ:57:VAL:HG13	2.15	0.45
20:AS:13:HIS:CG	20:AS:14:LEU:N	2.85	0.45
22:B0:347:A:N1	22:B0:348:A:N6	2.64	0.45
22:B0:518:G:O3'	41:BQ:18:ARG:HG3	2.17	0.45
22:B0:658:U:N1	28:BC:98:LYS:HD3	2.32	0.45
22:B0:729:G:H3'	22:B0:729:G:N3	2.32	0.45
22:B0:909:A:OP1	36:BK:5:LYS:HB3	2.17	0.45
22:B0:1164:C:C2	22:B0:1185:G:N2	2.85	0.45
22:B0:1201:U:O3'	35:BJ:13:LYS:HE2	2.16	0.45
22:B0:1369:G:H2'	22:B0:1370:C:C5	2.52	0.45
22:B0:1416:G:N1	26:BA:94:LEU:CA	2.75	0.45
22:B0:1580:A:H1'	26:BA:69:ASN:H	1.80	0.45
22:B0:1939:U:OP1	22:B0:1940:U:OP2	2.34	0.45
22:B0:1965:C:C5	22:B0:1967:C:OP2	2.70	0.45
22:B0:2048:G:O2'	22:B0:2049:G:H5'	2.17	0.45
22:B0:2365:G:H5'	45:BU:37:VAL:CG2	2.46	0.45
22:B0:2366:A:H5'	45:BU:65:LYS:HE3	1.98	0.45
22:B0:2543:G:C2	22:B0:2646:C:H4'	2.50	0.45
22:B0:2678:C:H5''	27:BB:124:ARG:CA	2.46	0.45
25:B5:16:VAL:O	25:B5:20:VAL:HG23	2.16	0.45
26:BA:78:GLU:HB3	26:BA:92:LEU:HD22	1.99	0.45
26:BA:140:VAL:CA	26:BA:190:THR:O	2.64	0.45
27:BB:28:GLU:HG2	27:BB:186:LEU:CD2	2.46	0.45
27:BB:121:THR:O	27:BB:124:ARG:HB2	2.16	0.45
27:BB:122:VAL:HG11	27:BB:129:THR:HB	1.98	0.45
28:BC:3:LEU:HB2	28:BC:17:THR:O	2.16	0.45
29:BD:47:LYS:O	29:BD:48:LEU:HB2	2.16	0.45
29:BD:101:ARG:HG2	29:BD:101:ARG:O	2.16	0.45
30:BE:97:VAL:O	30:BE:97:VAL:HG13	2.16	0.45
30:BE:101:VAL:HG12	30:BE:111:PRO:HB2	1.99	0.45
31:BF:3:VAL:HG22	31:BF:36:ALA:HB1	1.98	0.45
33:BH:12:LYS:HE3	33:BH:12:LYS:CA	2.45	0.45
33:BH:17:VAL:CG2	33:BH:18:VAL:N	2.75	0.45
34:BI:88:ASN:OD1	34:BI:90:ASN:HB2	2.16	0.45
35:BJ:21:ARG:HD2	35:BJ:22:GLY:N	2.29	0.45
35:BJ:108:ALA:HB3	35:BJ:126:ARG:NH1	2.31	0.45
35:BJ:129:LYS:HD2	35:BJ:129:LYS:C	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:112:TYR:O	37:BL:114:GLU:N	2.49	0.45
39:BN:20:ARG:HG3	39:BN:22:GLY:HA3	1.99	0.45
40:BO:15:LYS:H	40:BO:15:LYS:NZ	2.15	0.45
43:BS:10:VAL:HG13	43:BS:69:VAL:HB	1.99	0.45
1:AA:50:A:H2'	1:AA:360:G:H22	1.82	0.45
1:AA:131:A:H2'	1:AA:132:C:C6	2.50	0.45
1:AA:147:G:H2'	1:AA:148:G:C8	2.51	0.45
1:AA:268:U:H2'	1:AA:269:C:H6	1.82	0.45
1:AA:689:C:H5'	1:AA:705:G:H21	1.82	0.45
1:AA:725:G:H2'	1:AA:726:C:H6	1.82	0.45
1:AA:1085:U:O2'	1:AA:1086:U:P	2.75	0.45
1:AA:1133:G:H2'	1:AA:1134:G:C8	2.51	0.45
1:AA:1213:A:N6	1:AA:1215:G:H1'	2.32	0.45
1:AA:1313:U:O2'	1:AA:1314:C:H5'	2.16	0.45
1:AA:1510:C:H2'	1:AA:1511:G:C8	2.52	0.45
2:AW:65:G:H2'	2:AW:66:A:H8	1.82	0.45
3:AB:6:ARG:HG2	3:AB:6:ARG:HH11	1.81	0.45
3:AB:112:ARG:O	3:AB:116:LEU:HG	2.15	0.45
4:AC:28:PHE:CE2	4:AC:32:LEU:HD11	2.51	0.45
7:AF:11:HIS:CE1	7:AF:13:ASP:HB2	2.51	0.45
9:AH:9:MET:HB2	9:AH:26:MET:HE3	1.98	0.45
10:AI:27:ILE:HD12	10:AI:34:LEU:HD21	1.98	0.45
11:AJ:12:ALA:HB3	11:AJ:18:ILE:HD11	1.99	0.45
13:AL:24:GLU:HG2	13:AL:24:GLU:O	2.16	0.45
22:B0:340:A:C2'	22:B0:341:C:H5'	2.47	0.45
22:B0:971:G:H2'	22:B0:972:A:H5'	1.98	0.45
22:B0:1086:A:H4'	22:B0:1103:A:C2	2.52	0.45
22:B0:1097:U:H2'	22:B0:1098:A:H5'	1.99	0.45
22:B0:1243:C:C4	22:B0:1244:A:N7	2.85	0.45
22:B0:1618:A:H5'	22:B0:1619:G:OP2	2.17	0.45
22:B0:1775:U:H2'	22:B0:1776:G:O4'	2.16	0.45
22:B0:1993:U:O2'	22:B0:1994:C:H5'	2.16	0.45
22:B0:2058:A:HO2'	22:B0:2059:A:P	2.39	0.45
22:B0:2176:A:C3'	24:B2:167:ASN:H	2.29	0.45
22:B0:2579:C:O2'	22:B0:2580:U:H5'	2.17	0.45
24:B2:161:ARG:HD3	24:B2:161:ARG:N	2.31	0.45
24:B2:176:LYS:HD2	24:B2:176:LYS:N	2.32	0.45
26:BA:140:VAL:O	26:BA:160:TYR:HA	2.16	0.45
28:BC:35:TYR:O	28:BC:36:ALA:C	2.54	0.45
28:BC:139:LYS:HD2	28:BC:139:LYS:C	2.37	0.45
29:BD:59:ILE:HG22	29:BD:139:GLU:OE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:116:LEU:H	29:BD:116:LEU:CD2	2.22	0.45
31:BF:99:ILE:HD12	31:BF:99:ILE:N	2.32	0.45
31:BF:99:ILE:O	31:BF:103:VAL:HG23	2.17	0.45
32:BG:27:LEU:O	32:BG:32:VAL:HG13	2.16	0.45
32:BG:135:MET:O	32:BG:135:MET:SD	2.75	0.45
33:BH:31:GLU:O	33:BH:32:LEU:HB2	2.17	0.45
36:BK:75:GLU:HG3	36:BK:76:LYS:N	2.31	0.45
37:BL:49:GLU:HG3	37:BL:49:GLU:O	2.17	0.45
39:BN:33:GLU:OE2	39:BN:81:ASP:HB3	2.16	0.45
41:BQ:22:ASP:OD1	41:BQ:23:LEU:N	2.50	0.45
41:BQ:49:LYS:HZ3	41:BQ:49:LYS:CA	2.30	0.45
48:BZ:36:LYS:HE2	48:BZ:38:LEU:CD1	2.45	0.45
49:B1:26:LYS:CD	49:B1:26:LYS:N	2.79	0.45
1:AA:31:G:C4	1:AA:48:C:H5''	2.51	0.45
1:AA:187:G:H2'	1:AA:188:C:C6	2.52	0.45
1:AA:520:A:N1	1:AA:536:C:H1'	2.32	0.45
1:AA:590:U:H2'	1:AA:591:U:C6	2.52	0.45
1:AA:649:A:H2'	1:AA:650:G:C8	2.52	0.45
1:AA:719:C:OP2	1:AA:720:C:H5	2.00	0.45
1:AA:890:G:H2'	1:AA:891:U:OP2	2.16	0.45
1:AA:967:C:P	1:AA:969:A:H5'	2.56	0.45
1:AA:978:A:C3'	20:AS:5:LYS:N	2.79	0.45
1:AA:1032:G:H2'	1:AA:1033:G:C4'	2.47	0.45
1:AA:1068:G:O2'	1:AA:1069:C:H5'	2.16	0.45
3:AB:137:THR:O	3:AB:141:GLU:HG3	2.17	0.45
5:AD:205:LYS:C	5:AD:205:LYS:HE2	2.37	0.45
8:AG:36:SER:HA	10:AI:40:ARG:CD	2.46	0.45
9:AH:86:LYS:HE2	9:AH:124:ILE:HG12	1.98	0.45
11:AJ:80:THR:H	11:AJ:83:THR:CB	2.29	0.45
14:AM:68:LEU:HD23	14:AM:68:LEU:C	2.37	0.45
14:AM:95:PRO:HB3	14:AM:101:THR:HG21	1.99	0.45
16:AO:83:ARG:HH11	16:AO:83:ARG:HG2	1.81	0.45
19:AR:59:LYS:CD	19:AR:62:ARG:HH22	2.29	0.45
22:B0:242:G:C2'	22:B0:243:U:OP2	2.65	0.45
22:B0:493:G:H2'	41:BQ:7:HIS:ND1	2.32	0.45
22:B0:659:G:H1'	28:BC:98:LYS:N	2.32	0.45
22:B0:672:C:H6	22:B0:672:C:O5'	1.99	0.45
22:B0:1210:G:H1'	22:B0:1212:G:C2	2.52	0.45
22:B0:1421:G:C1'	26:BA:146:LYS:HB3	2.45	0.45
22:B0:1463:G:H2'	22:B0:1464:G:H8	1.82	0.45
22:B0:1491:A:OP2	26:BA:175:LEU:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1802:A:H62	22:B0:1815:A:H62	1.65	0.45
22:B0:2115:G:N3	22:B0:2168:G:O4'	2.50	0.45
22:B0:2249:U:O2'	22:B0:2250:G:P	2.75	0.45
22:B0:2484:G:H2'	22:B0:2485:G:C8	2.51	0.45
22:B0:2553:G:C3'	22:B0:2554:U:H5''	2.42	0.45
22:B0:2678:C:O2'	27:BB:165:MET:SD	2.75	0.45
22:B0:2690:U:H2'	22:B0:2691:C:H5'	1.98	0.45
22:B0:2855:C:O5'	22:B0:2855:C:H6	1.99	0.45
25:B5:84:LYS:HB3	25:B5:84:LYS:HZ3	1.81	0.45
26:BA:90:ILE:O	26:BA:90:ILE:HG13	2.16	0.45
26:BA:98:GLY:O	26:BA:99:GLU:HB2	2.17	0.45
26:BA:143:VAL:HA	26:BA:189:ALA:HB2	1.98	0.45
28:BC:7:ASP:CG	28:BC:8:ALA:H	2.19	0.45
32:BG:3:LYS:HE2	32:BG:3:LYS:CA	2.43	0.45
32:BG:9:LYS:HG2	32:BG:56:VAL:O	2.17	0.45
33:BH:109:LEU:H	33:BH:110:PRO:HA	1.79	0.45
36:BK:38:ARG:HG3	36:BK:96:ILE:O	2.17	0.45
38:BM:31:THR:C	38:BM:33:ARG:H	2.19	0.45
38:BM:39:VAL:O	38:BM:48:LEU:HD13	2.16	0.45
39:BN:16:VAL:HG23	39:BN:16:VAL:O	2.17	0.45
40:BO:43:GLN:HA	40:BO:46:TYR:CB	2.45	0.45
41:BQ:30:SER:O	41:BQ:33:LEU:HG	2.17	0.45
41:BQ:72:THR:HG23	41:BQ:73:LYS:H	1.82	0.45
1:AA:26:A:N6	1:AA:558:G:H21	2.15	0.45
1:AA:119:A:C2'	1:AA:120:A:OP2	2.65	0.45
1:AA:224:U:H2'	1:AA:225:C:C6	2.52	0.45
1:AA:947:G:H2'	1:AA:948:C:O4'	2.16	0.45
1:AA:990:C:O2'	1:AA:991:U:P	2.73	0.45
1:AA:1399:C:H1'	1:AA:1401:G:N9	2.32	0.45
2:AU:71:G:O2'	2:AU:72:C:H5'	2.17	0.45
2:AW:56:C:H2'	2:AW:57:G:C8	2.52	0.45
7:AF:18:VAL:HG13	7:AF:21:MET:HE3	1.98	0.45
8:AG:46:LEU:HB3	8:AG:57:GLU:CB	2.47	0.45
8:AG:65:LEU:HD22	8:AG:65:LEU:N	2.32	0.45
11:AJ:70:HIS:C	11:AJ:71:LEU:HD12	2.37	0.45
19:AR:15:GLU:HG2	19:AR:16:GLY:N	2.31	0.45
22:B0:57:C:H3'	42:BR:76:ARG:HD2	1.98	0.45
22:B0:645:C:H2'	22:B0:647:G:O4'	2.16	0.45
22:B0:858:G:O2'	22:B0:859:G:OP1	2.32	0.45
22:B0:960:A:OP2	22:B0:2496:C:C1'	2.65	0.45
22:B0:960:A:P	22:B0:2496:C:C6	3.10	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1110:G:C4'	22:B0:1111:A:OP1	2.65	0.45
22:B0:1445:U:OP1	22:B0:1445:U:H3'	2.17	0.45
22:B0:1655:A:H3'	22:B0:1656:C:C6	2.51	0.45
22:B0:1784:A:H4'	22:B0:1785:A:H5''	1.99	0.45
22:B0:1922:G:HO2'	22:B0:1923:U:P	2.40	0.45
22:B0:2263:C:N4	22:B0:2277:G:H1	2.15	0.45
22:B0:2378:A:C2'	22:B0:2379:G:H5'	2.46	0.45
22:B0:2441:U:O2'	22:B0:2442:C:H5'	2.17	0.45
22:B0:2506:U:O2'	22:B0:2507:C:H5'	2.17	0.45
24:B2:117:PRO:HA	24:B2:120:MET:CG	2.47	0.45
25:B5:14:MET:HB3	25:B5:18:ASP:HB3	1.98	0.45
26:BA:67:LYS:CD	26:BA:186:ASP:HB3	2.22	0.45
26:BA:76:VAL:O	26:BA:94:LEU:N	2.50	0.45
26:BA:225:ASN:HB3	26:BA:226:PRO:HD2	1.99	0.45
28:BC:181:ILE:HG13	35:BJ:17:LYS:HG2	1.99	0.45
37:BL:12:ARG:HB3	37:BL:13:ASN:H	1.57	0.45
43:BS:48:VAL:HG13	43:BS:60:LYS:HE3	1.99	0.45
44:BT:51:GLN:HA	44:BT:56:PHE:CD2	2.52	0.45
47:BX:8:GLN:HE21	47:BX:15:ARG:HH22	1.64	0.45
47:BX:46:MET:O	47:BX:50:VAL:HG22	2.17	0.45
49:B1:14:ALA:HB2	49:B1:40:PRO:HG2	1.98	0.45
1:AA:251:G:N2	1:AA:254:G:O6	2.48	0.45
1:AA:424:G:C5	1:AA:425:G:N7	2.85	0.45
1:AA:1098:C:N4	1:AA:1099:G:O6	2.50	0.45
1:AA:1152:A:H2'	1:AA:1153:G:H8	1.81	0.45
2:AU:41:U:H2'	2:AU:42:G:H8	1.81	0.45
2:AV:56:C:H2'	2:AV:57:G:H8	1.82	0.45
3:AB:41:ASN:HB3	3:AB:44:LYS:HD3	1.99	0.45
3:AB:139:GLU:O	3:AB:143:LEU:HG	2.16	0.45
5:AD:56:GLU:OE2	5:AD:198:LEU:HD12	2.16	0.45
5:AD:101:VAL:CG1	5:AD:106:PHE:HB2	2.46	0.45
5:AD:183:ARG:HH11	5:AD:183:ARG:HG3	1.82	0.45
7:AF:43:GLY:HA2	7:AF:58:HIS:CE1	2.52	0.45
8:AG:144:ALA:O	8:AG:145:GLU:HB2	2.16	0.45
10:AI:20:ILE:CG2	10:AI:60:LEU:HD23	2.47	0.45
12:AK:28:ASN:OD1	12:AK:46:ALA:HB2	2.17	0.45
12:AK:33:ILE:CB	12:AK:73:VAL:HG21	2.47	0.45
13:AL:30:ARG:HH22	13:AL:78:VAL:HG13	1.82	0.45
22:B0:280:U:H2'	22:B0:281:C:C6	2.52	0.45
22:B0:342:A:H2'	22:B0:343:C:C6	2.52	0.45
22:B0:458:G:C2'	22:B0:459:U:OP2	2.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:515:A:H2'	22:B0:516:C:H5'	1.98	0.45
22:B0:704:G:N2	22:B0:726:G:H2'	2.31	0.45
22:B0:993:G:H1	22:B0:1161:C:H42	1.65	0.45
22:B0:1022:G:O5'	22:B0:1023:U:P	2.75	0.45
22:B0:1083:U:O2'	25:B3:81:LYS:CG	2.64	0.45
22:B0:1159:U:H2'	22:B0:1160:G:C8	2.51	0.45
22:B0:1579:A:N7	26:BA:188:ARG:NH1	2.64	0.45
22:B0:1630:A:N6	22:B0:1637:A:N6	2.64	0.45
22:B0:1761:C:C4	22:B0:1762:A:N3	2.85	0.45
22:B0:1837:C:H1'	22:B0:1904:G:H22	1.82	0.45
22:B0:2093:G:C8	22:B0:2198:A:N6	2.85	0.45
22:B0:2194:U:H2'	22:B0:2195:U:H6	1.81	0.45
22:B0:2500:U:C2'	22:B0:2501:C:H5'	2.47	0.45
24:B2:76:VAL:HG21	24:B2:148:VAL:HG21	1.98	0.45
25:B3:81:LYS:O	25:B3:84:LYS:HB3	2.17	0.45
26:BA:48:ILE:HD12	26:BA:48:ILE:C	2.37	0.45
26:BA:64:VAL:HG21	26:BA:150:GLY:CA	2.47	0.45
28:BC:35:TYR:CD2	28:BC:35:TYR:C	2.91	0.45
29:BD:107:VAL:CG1	29:BD:110:ILE:HD11	2.42	0.45
30:BE:103:ASN:ND2	30:BE:111:PRO:HB3	2.32	0.45
31:BF:15:LEU:HB3	31:BF:51:ARG:NH2	2.30	0.45
32:BG:50:LYS:HD2	32:BG:50:LYS:C	2.37	0.45
32:BG:52:LEU:CD2	32:BG:73:PRO:HB3	2.42	0.45
35:BJ:6:LEU:H	35:BJ:6:LEU:CD2	2.30	0.45
35:BJ:106:GLU:O	35:BJ:107:PHE:HB2	2.16	0.45
38:BM:87:ILE:C	38:BM:88:LYS:HD2	2.38	0.45
39:BN:59:THR:HG22	39:BN:60:VAL:N	2.31	0.45
40:BO:30:VAL:HG12	40:BO:31:TYR:H	1.82	0.45
41:BQ:20:VAL:CG2	41:BQ:36:LEU:HD13	2.47	0.45
42:BR:92:ASN:O	42:BR:93:LEU:HD13	2.17	0.45
47:BX:20:LYS:HE3	47:BX:24:LEU:HD21	1.99	0.45
49:B1:5:ARG:HB3	49:B1:7:LYS:NZ	2.32	0.45
49:B1:19:PHE:O	49:B1:20:TYR:HB3	2.16	0.45
1:AA:243:A:C2'	1:AA:244:U:OP2	2.64	0.45
1:AA:406:G:O2'	1:AA:407:U:H5'	2.16	0.45
1:AA:722:G:C2'	1:AA:723:U:H5''	2.46	0.45
2:AV:43:G:H2'	2:AV:44:A:C8	2.52	0.45
5:AD:90:LEU:H	5:AD:90:LEU:CD1	2.30	0.45
5:AD:149:LYS:HD2	5:AD:177:MET:SD	2.57	0.45
6:AE:12:GLU:HG2	6:AE:63:MET:SD	2.56	0.45
6:AE:83:PRO:HG3	6:AE:97:PRO:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AE:123:LEU:HD13	6:AE:123:LEU:C	2.38	0.45
7:AF:11:HIS:CE1	7:AF:54:LEU:HD22	2.52	0.45
9:AH:95:MET:HG2	9:AH:98:LEU:HD12	1.99	0.45
10:AI:20:ILE:HG12	10:AI:62:LEU:HD22	1.99	0.45
10:AI:28:VAL:HB	10:AI:63:TYR:HD1	1.82	0.45
12:AK:28:ASN:HD21	12:AK:45:THR:CG2	2.30	0.45
12:AK:122:PRO:HB2	12:AK:126:ARG:CB	2.45	0.45
13:AL:111:GLN:O	13:AL:113:ARG:HG3	2.17	0.45
18:AQ:57:VAL:HB	18:AQ:79:GLU:HG2	1.99	0.45
22:B0:658:U:C2'	28:BC:98:LYS:HG2	2.21	0.45
22:B0:801:G:H21	28:BC:65:THR:HB	1.82	0.45
22:B0:996:A:H5''	40:BO:92:LYS:HE2	1.99	0.45
22:B0:1011:G:N2	22:B0:1150:C:O2	2.50	0.45
22:B0:1017:G:O2'	22:B0:1018:U:H5'	2.17	0.45
22:B0:1217:U:H2'	22:B0:1218:G:H8	1.80	0.45
22:B0:1438:U:H2'	22:B0:1439:A:C4	2.52	0.45
22:B0:1700:A:C2'	22:B0:1701:A:H5'	2.46	0.45
22:B0:1772:A:H2'	22:B0:1773:A:C4'	2.44	0.45
22:B0:1996:C:N3	27:BB:138:LEU:HD23	2.30	0.45
22:B0:2074:U:H4'	22:B0:2597:G:O2'	2.16	0.45
22:B0:2341:G:H2'	22:B0:2342:C:C6	2.52	0.45
22:B0:2508:G:O2'	22:B0:2509:G:H5'	2.16	0.45
22:B0:2553:G:C2	22:B0:2554:U:H1'	2.52	0.45
23:B9:90:C:O5'	23:B9:90:C:H6	1.98	0.45
25:B5:21:GLU:HA	25:B5:24:SER:OG	2.17	0.45
26:BA:115:ILE:O	26:BA:115:ILE:HG12	2.16	0.45
26:BA:176:ARG:HG2	26:BA:176:ARG:O	2.16	0.45
27:BB:13:ARG:HD2	39:BN:10:GLU:HG3	1.98	0.45
27:BB:164:GLN:HE21	27:BB:164:GLN:HA	1.82	0.45
28:BC:78:TRP:O	28:BC:79:ARG:C	2.55	0.45
28:BC:149:ILE:HD12	28:BC:149:ILE:N	2.32	0.45
28:BC:178:VAL:CA	35:BJ:17:LYS:H	2.28	0.45
29:BD:177:ARG:HH11	29:BD:177:ARG:HG3	1.82	0.45
30:BE:142:GLN:HG3	30:BE:146:ASP:OD2	2.17	0.45
32:BG:18:ASN:HA	32:BG:19:PRO:O	2.17	0.45
32:BG:54:ILE:HD13	32:BG:55:PRO:N	2.32	0.45
32:BG:70:THR:HG23	32:BG:70:THR:O	2.17	0.45
32:BG:92:PRO:O	32:BG:93:ASN:ND2	2.48	0.45
38:BM:40:ILE:HD13	38:BM:41:ALA:N	2.32	0.45
38:BM:40:ILE:HA	38:BM:46:GLU:O	2.17	0.45
39:BN:101:GLU:C	39:BN:103:THR:N	2.69	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:5:ARG:HD2	40:BO:9:ALA:HB3	1.98	0.45
42:BR:66:LYS:HZ2	42:BR:67:VAL:HG23	1.81	0.45
42:BR:77:ARG:HH22	42:BR:79:ASP:H	1.57	0.45
44:BT:16:ALA:HA	44:BT:19:ARG:NH1	2.33	0.45
49:B1:5:ARG:HA	49:B1:5:ARG:NH1	2.31	0.45
1:AA:39:G:O2'	1:AA:40:C:H5'	2.17	0.44
1:AA:147:G:H2'	1:AA:148:G:H8	1.82	0.44
1:AA:500:G:H2'	1:AA:501:C:H6	1.80	0.44
1:AA:740:U:H2'	1:AA:741:G:H8	1.82	0.44
1:AA:873:A:H4'	1:AA:874:G:OP1	2.17	0.44
1:AA:1273:C:H2'	1:AA:1274:A:O4'	2.16	0.44
1:AA:1389:C:H2'	1:AA:1390:U:C6	2.52	0.44
2:AU:58:A:O2'	2:AU:60:C:H5	2.01	0.44
2:AW:55:U:O2	2:AW:57:G:OP2	2.35	0.44
3:AB:158:ASP:O	3:AB:181:PRO:HD2	2.18	0.44
4:AC:120:THR:OG1	4:AC:188:ALA:HB2	2.17	0.44
4:AC:190:THR:HG21	4:AC:192:TYR:CZ	2.52	0.44
5:AD:106:PHE:CD1	5:AD:158:LEU:HD11	2.52	0.44
9:AH:110:MET:HB3	9:AH:114:ALA:HB3	1.99	0.44
12:AK:13:LYS:HZ1	12:AK:15:VAL:HG22	1.81	0.44
12:AK:46:ALA:CB	12:AK:56:LYS:HB2	2.47	0.44
14:AM:30:LYS:HD2	14:AM:30:LYS:N	2.32	0.44
16:AO:26:VAL:O	16:AO:29:ALA:HB3	2.17	0.44
17:AP:20:VAL:HG11	17:AP:32:PHE:CB	2.44	0.44
19:AR:25:ILE:HG13	19:AR:67:LEU:HD21	1.99	0.44
20:AS:81:GLY:O	20:AS:82:HIS:C	2.54	0.44
21:AT:57:VAL:HA	21:AT:60:GLN:OE1	2.17	0.44
21:AT:60:GLN:O	21:AT:65:LEU:HB2	2.17	0.44
22:B0:84:A:H4'	22:B0:85:G:O5'	2.17	0.44
22:B0:95:A:H2'	22:B0:96:C:H6	1.82	0.44
22:B0:274:C:O2'	22:B0:275:C:H5'	2.17	0.44
22:B0:627:A:H4'	22:B0:628:G:H5'	1.98	0.44
22:B0:769:U:H2'	22:B0:770:G:H8	1.81	0.44
22:B0:825:A:H61	22:B0:944:C:H42	1.65	0.44
22:B0:960:A:H3'	22:B0:2496:C:O4'	2.17	0.44
22:B0:964:C:O2'	22:B0:2273:A:N3	2.47	0.44
22:B0:991:C:O2'	22:B0:992:C:H5'	2.17	0.44
22:B0:1045:C:H4'	25:B5:29:LYS:CE	2.39	0.44
22:B0:1054:A:C1'	25:B3:89:SER:OG	2.65	0.44
22:B0:1153:C:H5''	40:BO:61:ILE:HD12	1.98	0.44
22:B0:1199:U:N3	22:B0:1246:A:C2	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1202:G:C4'	35:BJ:14:LYS:HG3	2.47	0.44
22:B0:1408:G:H2'	22:B0:1409:U:C6	2.52	0.44
22:B0:1420:U:O5'	22:B0:1420:U:H6	1.99	0.44
22:B0:1421:G:N2	26:BA:144:GLU:CD	2.70	0.44
22:B0:1498:C:N4	26:BA:155:ARG:HB3	2.32	0.44
22:B0:1499:U:H3	22:B0:1500:A:H62	1.65	0.44
22:B0:1630:A:H61	22:B0:1637:A:N6	2.15	0.44
22:B0:1666:G:H1	22:B0:1994:C:H42	1.65	0.44
22:B0:1779:U:O2	22:B0:1783:A:N6	2.50	0.44
22:B0:1786:A:N6	22:B0:2606:C:H1'	2.32	0.44
22:B0:1898:U:H2'	22:B0:1899:A:H5'	1.99	0.44
22:B0:2126:A:O2'	22:B0:2171:A:C4	2.70	0.44
22:B0:2153:C:O2'	22:B0:2154:A:H3'	2.17	0.44
22:B0:2195:U:H2'	22:B0:2196:C:H6	1.82	0.44
22:B0:2256:G:H2'	22:B0:2256:G:N3	2.32	0.44
22:B0:2849:U:H2'	22:B0:2850:A:OP2	2.17	0.44
23:B9:18:G:N2	23:B9:65:U:H3	2.13	0.44
24:B2:117:PRO:HG3	24:B2:144:VAL:HG12	1.99	0.44
24:B2:200:PRO:HG2	24:B2:203:ALA:CB	2.37	0.44
26:BA:141:HIS:CE1	26:BA:194:VAL:HA	2.51	0.44
28:BC:136:GLN:HA	28:BC:136:GLN:NE2	2.32	0.44
28:BC:143:LEU:HB3	28:BC:146:VAL:HG21	1.98	0.44
29:BD:163:GLU:O	29:BD:164:GLU:HB3	2.17	0.44
31:BF:30:LEU:HD12	31:BF:30:LEU:N	2.30	0.44
31:BF:84:ALA:HA	31:BF:90:LEU:HA	1.98	0.44
33:BH:68:LYS:HZ2	33:BH:68:LYS:CA	2.25	0.44
33:BH:96:ARG:HB3	33:BH:97:PRO:C	2.37	0.44
33:BH:104:ALA:O	33:BH:105:VAL:C	2.54	0.44
35:BJ:89:VAL:HG23	35:BJ:90:VAL:HG12	1.99	0.44
35:BJ:123:ARG:HG3	35:BJ:143:GLU:HG2	1.99	0.44
38:BM:25:ARG:NH2	38:BM:40:ILE:HD12	2.09	0.44
40:BO:83:LYS:HB2	40:BO:83:LYS:HZ2	1.80	0.44
49:B1:43:ARG:N	49:B1:43:ARG:NE	2.65	0.44
1:AA:105:G:H2'	1:AA:106:C:C6	2.51	0.44
1:AA:321:A:O2'	1:AA:322:C:H5'	2.17	0.44
1:AA:872:A:C4'	1:AA:873:A:OP1	2.65	0.44
1:AA:969:A:O2'	1:AA:970:C:H5'	2.17	0.44
1:AA:979:C:N3	20:AS:7:GLY:HA3	2.31	0.44
1:AA:1097:C:H1'	1:AA:1167:A:C4	2.52	0.44
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.66	0.44
3:AB:53:LEU:O	3:AB:56:LEU:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:113:LEU:HD12	3:AB:143:LEU:HB3	1.98	0.44
4:AC:54:ILE:O	4:AC:54:ILE:HG12	2.17	0.44
8:AG:41:ILE:HG23	8:AG:116:ALA:HA	1.99	0.44
8:AG:139:ASP:HA	8:AG:142:ARG:HE	1.82	0.44
12:AK:15:VAL:HG12	12:AK:17:ASP:O	2.17	0.44
12:AK:118:ASN:C	12:AK:120:CYS:H	2.19	0.44
14:AM:16:ILE:HD13	14:AM:16:ILE:C	2.38	0.44
14:AM:92:ARG:NH1	14:AM:96:VAL:HG12	2.27	0.44
15:AN:61:ASN:O	15:AN:62:ARG:HB2	2.16	0.44
19:AR:64:LEU:O	19:AR:65:SER:HB3	2.16	0.44
22:B0:349:U:O5'	22:B0:349:U:H6	2.00	0.44
22:B0:369:U:P	22:B0:404:A:N6	2.91	0.44
22:B0:401:A:H2'	22:B0:402:A:O4'	2.17	0.44
22:B0:501:A:H2'	22:B0:501:A:N3	2.33	0.44
22:B0:658:U:O2	28:BC:98:LYS:HB3	2.17	0.44
22:B0:659:G:N2	28:BC:97:ASN:HB3	2.29	0.44
22:B0:1046:A:H1'	25:B5:25:ALA:CA	2.47	0.44
22:B0:1401:G:H2'	22:B0:1402:U:C6	2.51	0.44
22:B0:1479:G:C5'	22:B0:1559:U:H4'	2.46	0.44
22:B0:1550:C:H2'	22:B0:1551:A:H8	1.81	0.44
22:B0:1630:A:N6	22:B0:1637:A:C6	2.86	0.44
22:B0:1650:A:H2	22:B0:2007:U:H3	1.64	0.44
22:B0:1669:A:C2	22:B0:1994:C:H1'	2.52	0.44
22:B0:1948:G:H1	22:B0:1958:C:H42	1.65	0.44
22:B0:2023:C:H2'	22:B0:2024:G:C8	2.52	0.44
22:B0:2158:A:C2'	22:B0:2159:G:H4'	2.47	0.44
22:B0:2298:A:H3'	22:B0:2299:U:C6	2.53	0.44
22:B0:2898:G:O4'	33:BH:17:VAL:CG2	2.64	0.44
23:B9:70:C:H2'	23:B9:71:C:C6	2.52	0.44
24:B2:45:VAL:HG21	24:B2:195:LEU:CD2	2.47	0.44
26:BA:182:LYS:C	26:BA:183:VAL:HG12	2.37	0.44
28:BC:93:SER:N	35:BJ:28:GLY:HA2	2.31	0.44
32:BG:126:ARG:HG3	32:BG:126:ARG:HH11	1.81	0.44
33:BH:110:PRO:HD2	33:BH:113:PRO:CB	2.46	0.44
34:BI:66:LYS:HZ3	34:BI:81:GLY:HA2	1.79	0.44
39:BN:4:ILE:CD1	39:BN:5:LYS:HD2	2.48	0.44
39:BN:9:GLN:HE21	39:BN:9:GLN:N	2.14	0.44
40:BO:14:LYS:CG	40:BO:15:LYS:HG2	2.43	0.44
40:BO:34:ALA:C	40:BO:36:GLN:N	2.70	0.44
44:BT:26:PHE:HE2	44:BT:89:ILE:HD13	1.80	0.44
46:BW:44:LYS:HG2	46:BW:48:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B1:42:VAL:HG13	49:B1:43:ARG:N	2.32	0.44
1:AA:37:U:O2'	1:AA:500:G:H1'	2.17	0.44
1:AA:107:G:C3'	1:AA:108:G:H21	2.17	0.44
1:AA:173:U:H5''	1:AA:174:A:P	2.57	0.44
1:AA:266:G:C5'	1:AA:267:C:OP1	2.62	0.44
1:AA:976:G:H21	1:AA:1362:A:H3'	1.82	0.44
1:AA:1330:U:H2'	1:AA:1331:G:O4'	2.17	0.44
1:AA:1453:G:N2	1:AA:1454:G:N7	2.65	0.44
2:AV:14:A:H2'	2:AV:15:G:O4'	2.17	0.44
3:AB:202:ASN:HD22	3:AB:202:ASN:C	2.21	0.44
4:AC:166:TRP:O	4:AC:167:TYR:HB3	2.18	0.44
6:AE:25:LYS:HE3	6:AE:25:LYS:CA	2.46	0.44
8:AG:152:HIS:HD1	8:AG:152:HIS:H	1.65	0.44
10:AI:15:ALA:O	10:AI:66:VAL:HA	2.18	0.44
10:AI:129:ARG:HG3	10:AI:129:ARG:HH11	1.83	0.44
13:AL:42:LYS:HG3	13:AL:44:PRO:CD	2.41	0.44
15:AN:62:ARG:HD3	15:AN:69:PRO:HB3	1.99	0.44
22:B0:407:G:H2'	22:B0:408:G:C8	2.53	0.44
22:B0:466:A:H2'	22:B0:467:G:H5'	1.99	0.44
22:B0:517:C:H2'	22:B0:518:G:H8	1.82	0.44
22:B0:674:G:N2	22:B0:2444:G:O2'	2.51	0.44
22:B0:716:A:H2'	22:B0:717:C:O4'	2.17	0.44
22:B0:1132:U:O2'	22:B0:1133:A:H5'	2.18	0.44
22:B0:1231:U:H2'	22:B0:1232:G:C8	2.52	0.44
22:B0:1264:A:H2	22:B0:2016:U:O4	2.01	0.44
22:B0:1293:C:H2'	22:B0:1294:U:C6	2.52	0.44
22:B0:1496:A:O4'	26:BA:190:THR:OG1	2.35	0.44
22:B0:1582:C:H2'	26:BA:96:LYS:HB3	1.98	0.44
22:B0:1632:A:O3'	22:B0:1633:G:H8	2.01	0.44
22:B0:1821:A:H2'	22:B0:1822:C:O4'	2.17	0.44
22:B0:2162:G:C8	22:B0:2163:G:N2	2.85	0.44
22:B0:2165:C:N4	22:B0:2172:U:O3'	2.50	0.44
22:B0:2179:C:OP2	22:B0:2180:U:O3'	2.34	0.44
22:B0:2286:G:N7	49:B1:24:LYS:NZ	2.64	0.44
22:B0:2729:G:O6	27:BB:126:ASN:OD1	2.35	0.44
24:B2:47:LEU:HD22	24:B2:207:TYR:CZ	2.52	0.44
25:B3:64:ASN:O	25:B3:68:VAL:HG23	2.17	0.44
25:B5:94:LEU:C	25:B5:94:LEU:HD13	2.38	0.44
27:BB:165:MET:HG3	27:BB:166:GLY:N	2.33	0.44
28:BC:141:MET:O	28:BC:142:ALA:HB3	2.17	0.44
29:BD:48:LEU:N	29:BD:48:LEU:HD12	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:85:LYS:C	30:BE:86:LEU:HD12	2.38	0.44
31:BF:96:THR:HG23	31:BF:97:ARG:N	2.32	0.44
32:BG:20:SER:OG	32:BG:21:PRO:HD3	2.18	0.44
32:BG:138:VAL:HG22	32:BG:139:VAL:N	2.33	0.44
33:BH:31:GLU:O	33:BH:33:ALA:N	2.48	0.44
33:BH:56:VAL:HG11	33:BH:59:ALA:HB2	1.98	0.44
33:BH:68:LYS:HA	33:BH:68:LYS:HZ3	1.76	0.44
37:BL:44:LEU:HD23	37:BL:47:VAL:HG11	2.00	0.44
37:BL:59:SER:OG	37:BL:62:ASN:ND2	2.48	0.44
39:BN:24:THR:CA	39:BN:49:ILE:HG12	2.43	0.44
39:BN:99:LEU:HD23	39:BN:100:ARG:O	2.17	0.44
39:BN:113:LEU:C	39:BN:113:LEU:HD13	2.37	0.44
40:BO:40:LYS:O	40:BO:44:TYR:HD2	2.00	0.44
40:BO:43:GLN:HA	40:BO:46:TYR:CA	2.46	0.44
40:BO:59:LEU:C	40:BO:61:ILE:N	2.69	0.44
42:BR:12:ARG:N	42:BR:33:LYS:O	2.47	0.44
45:BU:43:LYS:HE2	45:BU:44:PHE:H	1.82	0.44
45:BU:69:GLU:O	45:BU:69:GLU:CD	2.56	0.44
46:BW:39:GLN:NE2	46:BW:40:SER:N	2.63	0.44
1:AA:389:A:C2'	1:AA:390:U:H5'	2.47	0.44
1:AA:636:U:H2'	1:AA:637:C:C6	2.53	0.44
1:AA:648:A:H2'	1:AA:649:A:C8	2.53	0.44
1:AA:1102:A:H2'	1:AA:1103:C:H6	1.81	0.44
1:AA:1279:G:O2'	1:AA:1282:C:N4	2.50	0.44
3:AB:55:GLU:HG2	3:AB:197:PHE:CE2	2.53	0.44
4:AC:76:ILE:HG22	4:AC:80:GLY:HA2	2.00	0.44
4:AC:133:MET:HG3	4:AC:134:LYS:H	1.82	0.44
5:AD:144:ILE:HG22	5:AD:145:ARG:N	2.32	0.44
6:AE:156:ARG:O	9:AH:65:PHE:CB	2.65	0.44
7:AF:64:VAL:HG22	7:AF:65:GLU:N	2.32	0.44
9:AH:50:VAL:O	9:AH:50:VAL:HG13	2.17	0.44
9:AH:77:VAL:HG22	9:AH:84:ILE:HD13	1.98	0.44
13:AL:42:LYS:NZ	13:AL:87:LYS:HE3	2.33	0.44
14:AM:18:LEU:C	14:AM:20:SER:H	2.20	0.44
15:AN:40:ARG:N	20:AS:16:LYS:HB2	2.32	0.44
17:AP:40:ASN:OD1	17:AP:45:GLU:HG2	2.18	0.44
19:AR:25:ILE:HG13	19:AR:67:LEU:CD2	2.48	0.44
22:B0:120:U:H1'	22:B0:149:A:N7	2.33	0.44
22:B0:204:A:O3'	22:B0:205:G:C4'	2.66	0.44
22:B0:457:A:O2'	22:B0:458:G:C4'	2.65	0.44
22:B0:493:G:C8	41:BQ:8:ARG:O	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:820:A:H2'	22:B0:821:A:O4'	2.18	0.44
22:B0:926:G:H2'	22:B0:928:A:H8	1.83	0.44
22:B0:1064:C:H2'	22:B0:1065:U:O4'	2.17	0.44
22:B0:1316:U:H2'	22:B0:1317:G:C8	2.53	0.44
22:B0:1495:A:OP1	26:BA:189:ALA:HB3	2.17	0.44
22:B0:1497:U:H3'	26:BA:63:ILE:CD1	2.47	0.44
22:B0:2471:A:H2	22:B0:2479:U:O4	1.99	0.44
22:B0:2493:U:H2'	22:B0:2494:G:C8	2.52	0.44
22:B0:2670:A:H2'	22:B0:2671:G:H8	1.82	0.44
22:B0:2771:C:H2'	22:B0:2772:C:C6	2.52	0.44
22:B0:2786:U:H2'	22:B0:2787:C:H6	1.83	0.44
25:B3:78:LEU:HB3	25:B3:82:GLU:CG	2.47	0.44
25:B5:86:LEU:O	25:B5:91:PRO:HD2	2.17	0.44
26:BA:79:ARG:HH11	26:BA:79:ARG:HG3	1.83	0.44
26:BA:81:GLU:O	26:BA:90:ILE:HG12	2.17	0.44
26:BA:164:VAL:HG23	26:BA:173:LEU:HA	1.98	0.44
28:BC:49:ARG:CG	28:BC:50:ALA:H	2.11	0.44
28:BC:108:ILE:CG1	28:BC:180:LEU:HB3	2.47	0.44
32:BG:129:GLU:CA	32:BG:132:ALA:HB2	2.47	0.44
35:BJ:109:LYS:C	35:BJ:126:ARG:HH21	2.20	0.44
35:BJ:124:GLY:C	35:BJ:126:ARG:HD3	2.37	0.44
38:BM:7:ARG:HD3	38:BM:7:ARG:N	2.22	0.44
39:BN:29:VAL:CG2	39:BN:30:TRP:H	2.13	0.44
45:BU:65:LYS:HZ2	45:BU:65:LYS:C	2.20	0.44
46:BW:6:LEU:HD22	46:BW:6:LEU:N	2.33	0.44
47:BX:20:LYS:C	47:BX:20:LYS:HD3	2.37	0.44
48:BZ:29:VAL:HB	48:BZ:32:THR:O	2.16	0.44
1:AA:58:C:O2'	1:AA:59:A:H5'	2.16	0.44
1:AA:280:C:H5''	1:AA:281:G:OP2	2.17	0.44
1:AA:371:A:O2'	1:AA:372:C:H5'	2.17	0.44
1:AA:372:C:H4'	1:AA:373:A:H8	1.81	0.44
1:AA:372:C:H2'	1:AA:373:A:OP2	2.18	0.44
1:AA:502:A:H2'	1:AA:503:C:O4'	2.18	0.44
1:AA:686:U:H2'	1:AA:687:A:O4'	2.17	0.44
1:AA:1049:U:O2'	1:AA:1050:G:P	2.76	0.44
1:AA:1117:A:C2'	1:AA:1118:U:H5'	2.45	0.44
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.52	0.44
1:AA:1290:G:H4'	1:AA:1372:U:H4'	1.99	0.44
1:AA:1299:A:H3'	1:AA:1299:A:N3	2.33	0.44
2:AU:22:G:O2'	2:AU:23:A:H5'	2.17	0.44
2:AU:75:C:H5''	22:B0:2557:G:C8	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AB:215:ALA:O	3:AB:219:THR:HG23	2.17	0.44
4:AC:115:VAL:HG11	4:AC:199:VAL:HG11	1.99	0.44
4:AC:195:ILE:HD12	4:AC:196:GLY:N	2.32	0.44
5:AD:53:GLN:HE21	5:AD:198:LEU:HD22	1.82	0.44
6:AE:79:THR:HG21	6:AE:98:ALA:O	2.18	0.44
7:AF:12:PRO:HD2	7:AF:54:LEU:CD2	2.47	0.44
8:AG:37:THR:O	8:AG:40:SER:HB2	2.17	0.44
10:AI:66:VAL:HG22	10:AI:67:LYS:N	2.32	0.44
11:AJ:32:THR:HG23	11:AJ:33:GLY:N	2.32	0.44
12:AK:118:ASN:CG	12:AK:119:GLY:H	2.20	0.44
17:AP:39:PHE:CE2	17:AP:41:PRO:HG3	2.52	0.44
20:AS:81:GLY:O	20:AS:83:ALA:N	2.50	0.44
20:AS:83:ALA:C	20:AS:85:ASP:H	2.20	0.44
22:B0:38:A:H2'	22:B0:39:G:H8	1.82	0.44
22:B0:71:A:H4'	22:B0:73:A:OP2	2.18	0.44
22:B0:152:A:H2'	22:B0:153:U:C6	2.53	0.44
22:B0:284:U:H2'	22:B0:285:G:C8	2.52	0.44
22:B0:372:G:O2'	22:B0:373:U:C5	2.69	0.44
22:B0:434:U:O2'	22:B0:435:C:C6	2.71	0.44
22:B0:490:C:O2'	22:B0:491:G:P	2.76	0.44
22:B0:629:G:N3	22:B0:639:U:H4'	2.33	0.44
22:B0:672:C:H2'	22:B0:673:C:H6	1.81	0.44
22:B0:807:U:H4'	22:B0:2445:G:O3'	2.18	0.44
22:B0:814:C:H2'	22:B0:815:C:C6	2.52	0.44
22:B0:948:C:H2'	22:B0:949:G:H8	1.82	0.44
22:B0:1202:G:O6	22:B0:1243:C:N3	2.51	0.44
22:B0:1324:G:N2	22:B0:1330:C:N3	2.60	0.44
22:B0:1326:U:H4'	22:B0:2011:U:H4'	1.99	0.44
22:B0:1495:A:N3	26:BA:65:ASP:HB2	2.32	0.44
22:B0:1497:U:O2'	26:BA:83:ASP:OD1	2.30	0.44
22:B0:1499:U:O5'	22:B0:1499:U:H6	2.00	0.44
22:B0:1803:A:H2	22:B0:1823:G:H1'	1.83	0.44
22:B0:2094:A:N6	22:B0:2195:U:H3	2.14	0.44
22:B0:2332:C:HO2'	22:B0:2335:A:H1'	1.82	0.44
22:B0:2493:U:H6	22:B0:2493:U:O5'	2.01	0.44
22:B0:2856:A:H3'	22:B0:2857:G:C8	2.52	0.44
26:BA:158:GLY:H	26:BA:194:VAL:CG2	2.29	0.44
27:BB:7:LYS:HD2	27:BB:198:GLY:O	2.18	0.44
27:BB:124:ARG:O	27:BB:126:ASN:N	2.50	0.44
28:BC:4:VAL:O	28:BC:119:ILE:HD11	2.17	0.44
30:BE:85:LYS:HB2	30:BE:170:THR:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:BG:9:LYS:CE	32:BG:10:LEU:H	2.30	0.44
33:BH:138:GLN:H	33:BH:138:GLN:CD	2.20	0.44
34:BI:90:ASN:O	34:BI:91:SER:C	2.55	0.44
37:BL:49:GLU:CB	37:BL:52:ILE:HG12	2.44	0.44
37:BL:73:ASN:HA	37:BL:76:VAL:CG1	2.47	0.44
39:BN:49:ILE:CD1	39:BN:99:LEU:HD13	2.47	0.44
39:BN:50:ARG:HG2	39:BN:99:LEU:O	2.17	0.44
40:BO:4:LYS:NZ	40:BO:5:ARG:HB3	2.32	0.44
40:BO:49:ARG:HG3	40:BO:50:ARG:N	2.32	0.44
43:BS:85:ARG:HH11	43:BS:85:ARG:HG3	1.82	0.44
45:BU:59:PHE:N	45:BU:81:ILE:HD13	2.33	0.44
45:BU:68:PHE:CG	45:BU:69:GLU:N	2.86	0.44
47:BX:6:ILE:HG23	47:BX:54:VAL:HG21	1.98	0.44
1:AA:47:C:C4'	1:AA:48:C:OP1	2.66	0.44
1:AA:281:G:O2'	1:AA:282:A:C8	2.70	0.44
1:AA:826:C:H2'	1:AA:827:U:C6	2.52	0.44
1:AA:986:U:H2'	1:AA:987:G:C8	2.53	0.44
1:AA:1173:U:H2'	1:AA:1174:G:C8	2.53	0.44
3:AB:113:LEU:HD23	3:AB:113:LEU:C	2.38	0.44
5:AD:101:VAL:HG13	5:AD:106:PHE:HB2	1.99	0.44
7:AF:7:VAL:HG23	7:AF:88:MET:H	1.83	0.44
8:AG:79:VAL:HB	8:AG:84:TYR:CD2	2.53	0.44
10:AI:119:LYS:O	10:AI:120:ALA:HB3	2.18	0.44
11:AJ:10:LEU:HB2	11:AJ:72:ARG:HB2	1.99	0.44
22:B0:182:A:O2'	22:B0:183:C:H5'	2.17	0.44
22:B0:371:A:C5'	22:B0:372:G:OP1	2.65	0.44
22:B0:481:G:N1	22:B0:507:A:O2'	2.43	0.44
22:B0:490:C:O5'	22:B0:490:C:H6	2.00	0.44
22:B0:655:A:O2'	22:B0:656:G:C8	2.70	0.44
22:B0:658:U:H6	22:B0:658:U:O5'	2.00	0.44
22:B0:1083:U:O2'	25:B3:81:LYS:CD	2.65	0.44
22:B0:1111:A:HO2'	22:B0:1112:G:C1'	2.31	0.44
22:B0:1496:A:C8	26:BA:190:THR:HG21	2.53	0.44
22:B0:1838:C:O4'	22:B0:1899:A:N6	2.51	0.44
22:B0:2143:C:HO2'	22:B0:2144:G:P	2.41	0.44
22:B0:2155:U:H3'	22:B0:2156:G:C5'	2.47	0.44
22:B0:2165:C:O2	22:B0:2165:C:O4'	2.35	0.44
22:B0:2263:C:C5	45:BU:11:ASN:HB2	2.52	0.44
22:B0:2298:A:H3'	22:B0:2299:U:H6	1.83	0.44
22:B0:2644:G:O2'	22:B0:2645:G:OP2	2.35	0.44
22:B0:2718:G:H2'	22:B0:2719:G:O4'	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2783:U:OP1	33:BH:120:ARG:HD2	2.17	0.44
23:B9:51:G:H2'	23:B9:52:A:O4'	2.18	0.44
24:B2:26:ILE:HG12	24:B2:185:LYS:N	2.32	0.44
25:B3:90:ALA:N	25:B3:91:PRO:CD	2.79	0.44
26:BA:40:GLY:CA	26:BA:45:ASN:HD22	2.30	0.44
27:BB:84:LEU:C	27:BB:84:LEU:HD12	2.38	0.44
28:BC:31:VAL:HB	35:BJ:17:LYS:HD2	2.00	0.44
28:BC:93:SER:CB	35:BJ:28:GLY:N	2.80	0.44
29:BD:32:LYS:HA	29:BD:91:ARG:NE	2.32	0.44
33:BH:41:LYS:CD	33:BH:43:GLU:H	2.24	0.44
35:BJ:128:THR:O	35:BJ:131:ALA:HB3	2.18	0.44
44:BT:83:LYS:HG3	44:BT:83:LYS:O	2.17	0.44
1:AA:243:A:H4'	1:AA:244:U:C5'	2.47	0.44
1:AA:370:C:H2'	1:AA:371:A:C8	2.52	0.44
1:AA:398:U:H2'	1:AA:399:G:C8	2.52	0.44
1:AA:436:C:O2'	1:AA:437:U:OP1	2.34	0.44
1:AA:482:A:H5''	1:AA:485:U:H1'	2.00	0.44
1:AA:669:G:H2'	1:AA:670:G:C8	2.53	0.44
1:AA:878:A:H2'	1:AA:879:C:C6	2.52	0.44
1:AA:1052:U:H2'	1:AA:1200:C:H41	1.80	0.44
1:AA:1132:C:H2'	1:AA:1133:G:C8	2.53	0.44
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.53	0.44
1:AA:1289:A:C2	1:AA:1290:G:H1'	2.53	0.44
1:AA:1406:U:H1'	1:AA:1517:G:O2'	2.18	0.44
6:AE:152:VAL:HA	9:AH:68:LYS:NZ	2.33	0.44
7:AF:10:VAL:HG11	7:AF:21:MET:CE	2.47	0.44
10:AI:122:ARG:HG2	10:AI:122:ARG:HH11	1.82	0.44
20:AS:18:VAL:HG23	20:AS:46:LEU:HD22	2.00	0.44
22:B0:120:U:H1'	22:B0:149:A:C8	2.52	0.44
22:B0:508:A:H4'	22:B0:509:C:C5'	2.47	0.44
22:B0:588:U:C2	22:B0:589:U:C4	3.06	0.44
22:B0:800:A:H4'	22:B0:801:G:C5'	2.47	0.44
22:B0:801:G:H1	28:BC:72:SER:CA	2.31	0.44
22:B0:824:U:H2'	22:B0:825:A:C8	2.53	0.44
22:B0:961:C:C2	22:B0:2499:C:C5	3.05	0.44
22:B0:994:C:P	40:BO:53:LYS:HG3	2.58	0.44
22:B0:1060:U:H4'	22:B0:1061:U:C5'	2.48	0.44
22:B0:1261:C:H2'	22:B0:1262:A:C8	2.53	0.44
22:B0:1324:G:C4'	22:B0:1616:A:N6	2.81	0.44
22:B0:1417:U:H4'	22:B0:1588:A:C1'	2.47	0.44
22:B0:1570:A:H2'	22:B0:1571:A:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1578:U:H2'	26:BA:66:PHE:N	2.33	0.44
22:B0:1579:A:N1	26:BA:67:LYS:C	2.51	0.44
22:B0:2032:G:O6	22:B0:2571:U:C4'	2.66	0.44
22:B0:2533:U:H2'	22:B0:2534:A:O4'	2.18	0.44
24:B2:141:VAL:O	24:B2:141:VAL:HG12	2.18	0.44
24:B2:192:LEU:HD13	24:B2:192:LEU:C	2.38	0.44
25:B3:49:GLU:O	25:B5:16:VAL:HG23	2.18	0.44
25:B5:58:LEU:HD21	25:B5:87:VAL:HG13	1.99	0.44
26:BA:77:VAL:HG12	26:BA:78:GLU:N	2.33	0.44
26:BA:196:ASN:O	26:BA:197:ALA:C	2.55	0.44
27:BB:13:ARG:HD3	39:BN:10:GLU:CD	2.38	0.44
28:BC:154:ASP:O	28:BC:155:GLU:C	2.54	0.44
29:BD:22:ASN:OD1	29:BD:23:SER:N	2.48	0.44
30:BE:86:LEU:CD2	30:BE:147:LEU:HD23	2.47	0.44
32:BG:54:ILE:O	32:BG:54:ILE:HG23	2.18	0.44
33:BH:115:GLY:O	33:BH:118:MET:HB3	2.18	0.44
34:BI:24:VAL:HG22	34:BI:25:LEU:N	2.32	0.44
41:BQ:37:THR:HG23	41:BQ:38:TYR:CD2	2.53	0.44
43:BS:46:LYS:O	43:BS:48:VAL:N	2.50	0.44
44:BT:60:VAL:O	44:BT:60:VAL:HG22	2.18	0.44
1:AA:496:A:H1'	1:AA:497:G:C8	2.53	0.44
1:AA:521:G:O2'	1:AA:522:C:H5'	2.17	0.44
1:AA:533:A:O2'	1:AA:534:U:P	2.75	0.44
1:AA:985:C:H2'	1:AA:986:U:C6	2.53	0.44
1:AA:1117:A:H1'	10:AI:107:ALA:HB2	2.00	0.44
1:AA:1386:G:O2'	1:AA:1387:G:H5'	2.18	0.44
2:AU:30:G:H2'	2:AU:31:A:H8	1.83	0.44
2:AW:66:A:O2'	2:AW:67:A:H5'	2.18	0.44
4:AC:10:ARG:O	4:AC:15:LYS:HB3	2.17	0.44
4:AC:130:ARG:HA	4:AC:133:MET:SD	2.58	0.44
4:AC:146:LYS:HB2	4:AC:202:PHE:CD2	2.53	0.44
4:AC:194:VAL:HG12	4:AC:195:ILE:N	2.33	0.44
5:AD:12:ARG:HH11	5:AD:29:THR:HG21	1.83	0.44
5:AD:12:ARG:HD3	5:AD:29:THR:HG22	1.99	0.44
7:AF:10:VAL:HG23	7:AF:83:ALA:C	2.37	0.44
10:AI:60:LEU:HD12	10:AI:60:LEU:N	2.33	0.44
12:AK:15:VAL:C	12:AK:17:ASP:H	2.20	0.44
12:AK:100:ASN:ND2	12:AK:106:ILE:HG21	2.33	0.44
13:AL:73:LEU:HD22	13:AL:77:SER:HB3	2.00	0.44
19:AR:44:THR:HG23	19:AR:46:THR:H	1.83	0.44
22:B0:534:U:H2'	22:B0:535:G:C8	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:588:U:OP2	28:BC:43:THR:HG23	2.17	0.44
22:B0:857:G:H21	22:B0:2269:G:H1'	1.83	0.44
22:B0:928:A:H2'	22:B0:929:U:O5'	2.17	0.44
22:B0:992:C:N4	22:B0:993:G:O6	2.51	0.44
22:B0:1129:A:O2'	22:B0:2516:A:H4'	2.17	0.44
22:B0:1185:G:P	22:B0:1185:G:H8	2.41	0.44
22:B0:1494:A:N6	26:BA:188:ARG:CB	2.81	0.44
22:B0:2020:A:H2'	22:B0:2021:C:O4'	2.17	0.44
22:B0:2462:C:H2'	22:B0:2463:C:C6	2.52	0.44
22:B0:2677:G:N2	22:B0:2731:G:H1'	2.33	0.44
22:B0:2825:G:C2'	22:B0:2826:A:H5'	2.47	0.44
22:B0:2891:A:N6	22:B0:2892:G:N3	2.66	0.44
23:B9:73:A:H2'	23:B9:74:U:C6	2.53	0.44
26:BA:171:VAL:CG2	26:BA:172:THR:N	2.80	0.44
27:BB:13:ARG:HG2	27:BB:14:ILE:H	1.83	0.44
28:BC:98:LYS:CB	28:BC:99:LYS:HD2	2.48	0.44
29:BD:105:ILE:O	29:BD:105:ILE:HD12	2.17	0.44
29:BD:175:PRO:O	29:BD:176:PHE:HB2	2.17	0.44
30:BE:87:GLN:C	30:BE:166:GLU:HG3	2.38	0.44
32:BG:22:PRO:HG2	32:BG:23:VAL:H	1.82	0.44
33:BH:54:ILE:HG13	33:BH:55:ILE:N	2.33	0.44
34:BI:106:GLU:H	34:BI:106:GLU:CD	2.22	0.44
37:BL:39:PRO:O	37:BL:42:LYS:HD2	2.17	0.44
38:BM:52:SER:OG	38:BM:54:VAL:HG12	2.17	0.44
39:BN:8:GLU:HA	39:BN:10:GLU:OE2	2.18	0.44
39:BN:64:SER:HA	39:BN:71:ARG:CD	2.48	0.44
40:BO:60:TRP:N	40:BO:60:TRP:CE3	2.86	0.44
42:BR:68:LYS:CA	42:BR:73:ARG:HH21	2.31	0.44
43:BS:6:ARG:HD2	43:BS:6:ARG:C	2.38	0.44
46:BW:38:GLN:O	46:BW:38:GLN:HG2	2.17	0.44
48:BZ:48:TYR:HD1	48:BZ:50:GLY:H	1.65	0.44
1:AA:166:U:H2'	1:AA:167:A:C8	2.53	0.44
1:AA:184:G:H2'	1:AA:185:U:C6	2.53	0.44
1:AA:582:C:N4	1:AA:758:C:H2'	2.33	0.44
1:AA:646:G:H2'	1:AA:647:C:C6	2.53	0.44
1:AA:865:A:H2'	1:AA:866:C:C6	2.52	0.44
1:AA:1064:G:O2'	1:AA:1065:U:H5''	2.18	0.44
1:AA:1196:A:H5''	1:AA:1197:A:C5'	2.48	0.44
1:AA:1224:U:C2	1:AA:1322:C:N4	2.86	0.44
2:AU:23:A:H2'	2:AU:24:G:H8	1.83	0.44
4:AC:133:MET:O	4:AC:137:VAL:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:187:GLU:HG3	4:AC:188:ALA:N	2.32	0.44
8:AG:21:LEU:HD12	8:AG:61:PHE:HE2	1.83	0.44
9:AH:38:VAL:O	9:AH:42:GLU:HG2	2.17	0.44
9:AH:84:ILE:HD11	9:AH:124:ILE:HB	2.00	0.44
12:AK:86:LYS:HG2	12:AK:112:VAL:HG13	2.00	0.44
15:AN:40:ARG:HA	20:AS:13:HIS:HB2	2.00	0.44
16:AO:38:LEU:HD22	16:AO:42:PHE:CE2	2.53	0.44
17:AP:5:ARG:O	17:AP:19:VAL:HA	2.18	0.44
17:AP:20:VAL:HG12	17:AP:21:VAL:N	2.33	0.44
20:AS:6:LYS:HB3	20:AS:6:LYS:HZ3	1.78	0.44
20:AS:11:ASP:HB3	20:AS:13:HIS:ND1	2.31	0.44
22:B0:370:G:H5'	22:B0:371:A:OP2	2.18	0.44
22:B0:492:A:C2	41:BQ:11:ARG:HD3	2.53	0.44
22:B0:859:G:C5'	22:B0:860:U:OP1	2.58	0.44
22:B0:1327:A:H2'	22:B0:1328:A:O4'	2.17	0.44
22:B0:1344:U:H4'	22:B0:1384:A:C5	2.53	0.44
22:B0:1825:U:H2'	22:B0:1826:G:H8	1.83	0.44
22:B0:1938:A:H2'	22:B0:1939:U:H5'	1.99	0.44
22:B0:2004:G:H2'	22:B0:2005:A:O4'	2.17	0.44
22:B0:2136:G:O6	22:B0:2163:G:O5'	2.36	0.44
22:B0:2606:C:H2'	22:B0:2607:G:C8	2.53	0.44
22:B0:2619:C:H2'	22:B0:2620:C:C6	2.53	0.44
22:B0:2670:A:H2'	22:B0:2671:G:C8	2.53	0.44
22:B0:2772:C:H2'	22:B0:2773:C:C6	2.53	0.44
22:B0:2835:A:H4'	22:B0:2836:U:C6	2.53	0.44
22:B0:2887:A:H2'	22:B0:2888:C:O4'	2.17	0.44
24:B2:192:LEU:HD13	24:B2:192:LEU:O	2.18	0.44
26:BA:144:GLU:OE1	26:BA:188:ARG:NH1	2.50	0.44
26:BA:261:ARG:HG2	26:BA:261:ARG:HH11	1.82	0.44
28:BC:126:VAL:HG21	28:BC:155:GLU:OE1	2.18	0.44
28:BC:166:LYS:HZ3	35:BJ:9:ALA:HB3	1.83	0.44
31:BF:79:THR:O	31:BF:80:ILE:HD13	2.18	0.44
32:BG:105:LEU:HD21	32:BG:129:GLU:OE1	2.17	0.44
35:BJ:99:ASN:N	35:BJ:99:ASN:ND2	2.66	0.44
36:BK:54:THR:HA	36:BK:57:VAL:HG22	1.99	0.44
37:BL:34:ILE:HG22	37:BL:35:LYS:N	2.32	0.44
38:BM:15:ARG:N	38:BM:15:ARG:CD	2.81	0.44
38:BM:26:LEU:HD23	38:BM:92:PHE:HD1	1.83	0.44
42:BR:64:LYS:N	42:BR:64:LYS:HD3	2.32	0.44
43:BS:53:GLN:OE1	43:BS:53:GLN:N	2.51	0.44
1:AA:60:A:O2'	1:AA:61:G:O5'	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:404:G:H5'	1:AA:546:A:O2'	2.18	0.43
1:AA:477:C:H2'	1:AA:478:A:C8	2.52	0.43
1:AA:656:G:O2'	1:AA:657:U:H5'	2.18	0.43
1:AA:741:G:N2	1:AA:742:G:H1'	2.33	0.43
1:AA:748:G:O2'	1:AA:749:A:O5'	2.35	0.43
1:AA:750:C:H2'	1:AA:751:U:C6	2.53	0.43
1:AA:942:G:H2'	1:AA:943:U:C6	2.53	0.43
1:AA:1059:C:P	4:AC:2:GLN:OE1	2.76	0.43
1:AA:1297:G:H5''	1:AA:1298:U:OP1	2.18	0.43
1:AA:1472:U:H2'	1:AA:1473:G:C8	2.53	0.43
1:AA:1495:U:H4'	22:B0:1911:U:O2'	2.18	0.43
3:AB:27:LYS:N	3:AB:28:PRO:CD	2.79	0.43
4:AC:35:ASP:HB3	4:AC:39:ARG:HH12	1.83	0.43
4:AC:153:SER:HA	4:AC:163:ARG:O	2.17	0.43
9:AH:14:ARG:NH2	9:AH:75:GLN:HG2	2.33	0.43
9:AH:87:ARG:HB2	9:AH:87:ARG:NH1	2.32	0.43
10:AI:15:ALA:HB3	10:AI:67:LYS:HE3	2.00	0.43
12:AK:30:ILE:HG12	12:AK:45:THR:OG1	2.18	0.43
12:AK:46:ALA:HA	12:AK:61:ALA:HB1	1.99	0.43
19:AR:6:ARG:HH21	19:AR:42:ARG:NE	2.07	0.43
19:AR:36:GLY:HA3	19:AR:69:TYR:C	2.37	0.43
22:B0:78:U:H2'	22:B0:79:C:C6	2.52	0.43
22:B0:238:C:H2'	22:B0:239:C:H6	1.83	0.43
22:B0:290:U:H2'	22:B0:291:G:C8	2.53	0.43
22:B0:394:C:H2'	22:B0:395:U:C6	2.53	0.43
22:B0:503:A:H2'	22:B0:505:A:C1'	2.48	0.43
22:B0:588:U:O4'	28:BC:80:SER:C	2.56	0.43
22:B0:598:U:H2'	22:B0:599:A:C8	2.53	0.43
22:B0:666:A:OP2	35:BJ:48:ARG:HD3	2.18	0.43
22:B0:717:C:C4	22:B0:718:A:H1'	2.53	0.43
22:B0:844:A:H1'	22:B0:936:A:C2	2.53	0.43
22:B0:846:U:O2'	22:B0:848:C:OP2	2.36	0.43
22:B0:867:C:C5	22:B0:909:A:C2	3.06	0.43
22:B0:961:C:H4'	22:B0:2498:C:C4	2.51	0.43
22:B0:1937:A:O2'	22:B0:1938:A:P	2.75	0.43
22:B0:2119:A:H2'	22:B0:2121:G:H5'	2.00	0.43
22:B0:2342:C:H2'	22:B0:2343:U:O4'	2.18	0.43
22:B0:2829:A:H2'	22:B0:2830:C:C6	2.53	0.43
24:B2:32:LEU:HD13	24:B2:219:ALA:HB3	2.00	0.43
26:BA:138:SER:H	26:BA:163:ILE:HD13	1.83	0.43
27:BB:8:LYS:HA	27:BB:27:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:151:THR:HG23	27:BB:151:THR:O	2.17	0.43
28:BC:6:LYS:CE	28:BC:119:ILE:HG12	2.46	0.43
28:BC:28:VAL:HG23	28:BC:29:HIS:N	2.31	0.43
28:BC:35:TYR:C	28:BC:35:TYR:HD2	2.21	0.43
31:BF:143:ILE:HD13	31:BF:144:VAL:N	2.33	0.43
36:BK:6:ARG:HG2	36:BK:6:ARG:HH11	1.83	0.43
39:BN:10:GLU:OE2	39:BN:11:GLN:HG2	2.17	0.43
39:BN:88:ARG:N	39:BN:88:ARG:CD	2.78	0.43
40:BO:15:LYS:HZ2	40:BO:15:LYS:H	1.66	0.43
41:BQ:56:ALA:O	41:BQ:57:ASN:HB3	2.18	0.43
42:BR:7:LEU:CA	42:BR:46:ALA:HA	2.48	0.43
43:BS:85:ARG:HG2	43:BS:86:PHE:N	2.33	0.43
1:AA:47:C:O4'	1:AA:365:U:N3	2.52	0.43
1:AA:145:G:N2	1:AA:177:G:C2	2.86	0.43
1:AA:189:A:C2'	1:AA:190:A:H4'	2.48	0.43
1:AA:246:A:H1'	1:AA:282:A:H61	1.83	0.43
1:AA:560:A:HO2'	1:AA:561:U:P	2.32	0.43
1:AA:1094:G:H5''	1:AA:1095:U:H5	1.80	0.43
1:AA:1139:G:C5'	1:AA:1140:C:H5'	2.48	0.43
1:AA:1226:C:O2'	1:AA:1227:A:P	2.76	0.43
1:AA:1310:G:H2'	1:AA:1311:A:H8	1.83	0.43
2:AW:59:U:H2'	2:AW:60:C:H5'	1.99	0.43
4:AC:48:LYS:N	4:AC:48:LYS:HD2	2.33	0.43
9:AH:31:LEU:O	9:AH:31:LEU:HD13	2.18	0.43
10:AI:113:LYS:CA	10:AI:120:ALA:HB2	2.48	0.43
11:AJ:47:GLU:HB3	11:AJ:67:ILE:CG2	2.48	0.43
12:AK:23:HIS:HB3	12:AK:30:ILE:HG23	1.98	0.43
22:B0:121:G:H4'	22:B0:149:A:O4'	2.18	0.43
22:B0:205:G:C2'	22:B0:206:U:OP2	2.66	0.43
22:B0:304:U:H2'	22:B0:305:C:C6	2.53	0.43
22:B0:360:U:H3'	22:B0:362:A:H8	1.83	0.43
22:B0:362:A:O2'	22:B0:363:G:O5'	2.32	0.43
22:B0:787:C:H3'	22:B0:791:C:H42	1.83	0.43
22:B0:1040:A:H2	22:B0:1115:G:H22	1.66	0.43
22:B0:1202:G:O2'	35:BJ:15:ALA:HA	2.18	0.43
22:B0:1340:U:C1'	22:B0:1603:A:H5'	2.48	0.43
22:B0:1490:C:O3'	26:BA:161:VAL:HA	2.18	0.43
22:B0:1495:A:N6	26:BA:150:GLY:O	2.51	0.43
22:B0:1497:U:H3	26:BA:102:TYR:CB	2.31	0.43
22:B0:1579:A:C8	26:BA:65:ASP:HB3	2.52	0.43
22:B0:1847:A:C2	22:B0:1893:C:N4	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1939:U:H4'	22:B0:2592:G:C5'	2.46	0.43
22:B0:2039:U:H2'	22:B0:2040:G:H8	1.82	0.43
22:B0:2071:A:O2'	22:B0:2072:C:H5'	2.18	0.43
22:B0:2215:C:H2'	22:B0:2216:G:C8	2.53	0.43
22:B0:2340:A:H4'	23:B9:41:G:C6	2.54	0.43
22:B0:2419:U:H2'	22:B0:2420:C:C6	2.53	0.43
22:B0:2455:G:H2'	22:B0:2456:C:C6	2.53	0.43
22:B0:2552:U:O2	22:B0:2554:U:H5'	2.19	0.43
22:B0:2650:U:H2'	22:B0:2651:C:C6	2.52	0.43
24:B2:7:MET:HA	24:B2:10:ILE:HG22	1.99	0.43
25:B5:19:VAL:O	25:B5:23:ILE:HG23	2.17	0.43
25:B5:92:ALA:O	25:B5:93:ALA:C	2.57	0.43
26:BA:80:LEU:HD13	26:BA:80:LEU:C	2.38	0.43
28:BC:87:ALA:O	28:BC:88:ARG:HB2	2.18	0.43
28:BC:134:LEU:HD11	28:BC:158:PHE:CE2	2.53	0.43
29:BD:169:LEU:HD23	29:BD:169:LEU:O	2.18	0.43
30:BE:74:MET:O	30:BE:78:VAL:HG23	2.18	0.43
35:BJ:111:ILE:HG12	35:BJ:111:ILE:O	2.18	0.43
39:BN:30:TRP:O	39:BN:31:VAL:HB	2.18	0.43
40:BO:27:ARG:HA	40:BO:33:VAL:HG23	1.99	0.43
41:BQ:14:ALA:H	41:BQ:17:VAL:CG2	2.31	0.43
41:BQ:24:ILE:N	41:BQ:25:ARG:HE	2.16	0.43
42:BR:14:PRO:O	42:BR:32:LEU:HA	2.18	0.43
1:AA:99:C:C4	1:AA:101:A:N7	2.86	0.43
1:AA:334:C:H2'	1:AA:335:C:C6	2.53	0.43
1:AA:431:A:H2'	1:AA:431:A:N3	2.33	0.43
1:AA:877:G:H5'	9:AH:79:ARG:HH12	1.82	0.43
1:AA:889:A:OP1	1:AA:891:U:H1'	2.19	0.43
1:AA:944:G:C2'	1:AA:1339:A:H61	2.32	0.43
1:AA:975:A:H4'	1:AA:976:G:OP2	2.17	0.43
1:AA:1287:A:OP1	1:AA:1288:A:OP2	2.37	0.43
1:AA:1380:U:H2'	1:AA:1381:U:OP2	2.19	0.43
1:AA:1404:C:H1'	1:AA:1519:A:O2'	2.19	0.43
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.53	0.43
2:AU:55:U:O2	2:AU:57:G:OP2	2.35	0.43
2:AU:74:C:H6	2:AU:74:C:O5'	2.01	0.43
6:AE:33:THR:HB	6:AE:49:TYR:CE1	2.53	0.43
6:AE:45:VAL:HG22	6:AE:117:ALA:HA	1.99	0.43
8:AG:42:VAL:O	8:AG:46:LEU:HD13	2.18	0.43
9:AH:93:LYS:HE2	9:AH:116:ARG:NH2	2.32	0.43
12:AK:16:SER:CA	12:AK:78:ILE:HA	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AN:66:THR:HB	15:AN:82:LYS:HE3	2.00	0.43
20:AS:40:PHE:HB3	20:AS:41:PRO:CD	2.47	0.43
22:B0:172:A:H2'	22:B0:173:A:H8	1.83	0.43
22:B0:241:A:H1'	22:B0:243:U:C4	2.53	0.43
22:B0:395:U:H2'	22:B0:396:G:H8	1.83	0.43
22:B0:588:U:C4	28:BC:45:ALA:HA	2.53	0.43
22:B0:762:U:O2'	22:B0:763:G:O4'	2.35	0.43
22:B0:776:G:N2	22:B0:793:A:N6	2.64	0.43
22:B0:924:G:H2'	22:B0:925:A:H8	1.82	0.43
22:B0:999:U:C5	22:B0:1154:G:O6	2.71	0.43
22:B0:1122:G:O2'	22:B0:1123:C:H5'	2.18	0.43
22:B0:1195:G:O2'	22:B0:1226:A:N3	2.51	0.43
22:B0:1495:A:C3'	26:BA:191:LEU:N	2.78	0.43
22:B0:1571:A:H2'	22:B0:1572:A:C8	2.53	0.43
22:B0:1580:A:H4'	26:BA:70:LYS:N	2.33	0.43
22:B0:1814:G:H1	22:B0:1815:A:N6	2.16	0.43
22:B0:2198:A:O2'	22:B0:2199:A:OP1	2.33	0.43
22:B0:2447:G:O2'	22:B0:2448:A:O5'	2.37	0.43
22:B0:2498:C:C2'	22:B0:2499:C:H5'	2.44	0.43
22:B0:2570:G:O2'	22:B0:2571:U:H5'	2.18	0.43
22:B0:2581:G:H1'	22:B0:2582:G:C5	2.54	0.43
22:B0:2751:G:H5'	22:B0:2752:C:OP2	2.18	0.43
22:B0:2861:U:O2	22:B0:2862:G:N7	2.51	0.43
26:BA:250:GLN:OE1	26:BA:250:GLN:N	2.45	0.43
27:BB:148:GLN:H	27:BB:148:GLN:NE2	2.17	0.43
30:BE:60:GLY:HA2	30:BE:63:GLN:NE2	2.30	0.43
32:BG:129:GLU:HA	32:BG:129:GLU:OE1	2.18	0.43
33:BH:18:VAL:HG13	33:BH:32:LEU:HD21	2.00	0.43
33:BH:58:ASN:HA	33:BH:126:ALA:HA	2.01	0.43
35:BJ:55:MET:H	35:BJ:56:PRO:CA	2.25	0.43
35:BJ:78:ARG:HB3	35:BJ:78:ARG:CZ	2.49	0.43
39:BN:6:GLN:OE1	39:BN:6:GLN:O	2.36	0.43
39:BN:14:GLN:H	39:BN:14:GLN:CD	2.21	0.43
39:BN:60:VAL:HG13	39:BN:61:ARG:HE	1.83	0.43
39:BN:79:VAL:HG12	39:BN:82:SER:HB2	2.00	0.43
40:BO:13:HIS:NE2	40:BO:14:LYS:NZ	2.66	0.43
41:BQ:18:ARG:HB3	41:BQ:76:VAL:HG21	2.00	0.43
1:AA:27:G:H2'	1:AA:28:A:C8	2.52	0.43
1:AA:420:U:O4'	5:AD:39:GLN:CG	2.67	0.43
1:AA:688:G:H2'	1:AA:689:C:C6	2.53	0.43
1:AA:1001:C:H1'	1:AA:1041:G:H22	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1341:U:H2'	1:AA:1342:C:C6	2.54	0.43
1:AA:1498:U:H1'	1:AA:1499:A:C8	2.54	0.43
2:AV:58:A:O2'	2:AV:60:C:H5	2.01	0.43
4:AC:13:ILE:HG13	4:AC:14:VAL:N	2.33	0.43
7:AF:37:HIS:CE1	7:AF:65:GLU:HB2	2.54	0.43
10:AI:116:GLY:O	10:AI:117:LEU:HD23	2.18	0.43
11:AJ:40:ILE:HD11	11:AJ:73:LEU:CD2	2.48	0.43
14:AM:77:LYS:HD3	14:AM:77:LYS:C	2.38	0.43
15:AN:81:ILE:HD12	15:AN:81:ILE:C	2.38	0.43
16:AO:25:GLU:OE2	16:AO:76:ARG:HD3	2.17	0.43
16:AO:86:LEU:HG	16:AO:87:ARG:N	2.34	0.43
22:B0:226:A:C6	22:B0:410:G:H1'	2.54	0.43
22:B0:281:C:H2'	22:B0:282:A:H8	1.83	0.43
22:B0:329:G:O2'	22:B0:477:A:H5'	2.18	0.43
22:B0:413:C:H2'	22:B0:414:C:C6	2.53	0.43
22:B0:495:G:C8	41:BQ:6:LYS:HD3	2.52	0.43
22:B0:588:U:N3	22:B0:589:U:O4	2.51	0.43
22:B0:873:C:H2'	22:B0:874:G:H8	1.83	0.43
22:B0:1436:G:H4'	22:B0:1477:A:H1'	2.00	0.43
22:B0:1444:A:C3'	22:B0:1445:U:C5'	2.95	0.43
22:B0:1491:A:C2	26:BA:173:LEU:N	2.87	0.43
22:B0:1491:A:C4	26:BA:174:ARG:HA	2.53	0.43
22:B0:1649:G:H2'	22:B0:1650:A:H8	1.84	0.43
22:B0:2464:G:O2'	22:B0:2465:C:H5'	2.19	0.43
22:B0:2776:A:H4'	22:B0:2777:G:O5'	2.18	0.43
23:B9:78:A:N6	23:B9:98:G:C2'	2.78	0.43
24:B2:6:ARG:O	24:B2:9:VAL:HG12	2.19	0.43
25:B3:16:VAL:HB	25:B3:53:GLU:O	2.17	0.43
25:B3:46:GLU:C	25:B5:15:SER:HB3	2.37	0.43
25:B3:65:LYS:HD2	25:B3:88:GLU:HG2	2.00	0.43
25:B3:85:ASP:C	25:B3:87:VAL:H	2.21	0.43
26:BA:164:VAL:HB	26:BA:172:THR:O	2.19	0.43
28:BC:181:ILE:HG13	35:BJ:17:LYS:HG3	2.00	0.43
34:BI:48:PRO:HG3	34:BI:54:LYS:CE	2.48	0.43
34:BI:59:LYS:HB2	34:BI:87:LEU:HD11	2.00	0.43
36:BK:7:THR:CG2	36:BK:8:LYS:N	2.72	0.43
37:BL:25:ALA:O	37:BL:28:LEU:HG	2.17	0.43
37:BL:115:LEU:HD12	37:BL:115:LEU:N	2.34	0.43
39:BN:28:LYS:HZ1	39:BN:86:LYS:HB3	1.83	0.43
40:BO:16:ILE:HG12	40:BO:35:PHE:CZ	2.53	0.43
47:BX:35:VAL:HG22	47:BX:36:GLU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:181:A:C2'	1:AA:182:A:OP2	2.66	0.43
1:AA:274:A:O2'	1:AA:275:G:C8	2.71	0.43
1:AA:637:C:H2'	1:AA:638:U:C6	2.53	0.43
1:AA:729:A:H2'	1:AA:730:G:C8	2.54	0.43
1:AA:869:G:O2'	1:AA:872:A:N7	2.41	0.43
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.54	0.43
1:AA:1468:A:H3'	1:AA:1469:C:H6	1.84	0.43
2:AU:74:C:H5''	22:B0:2556:C:N3	2.33	0.43
3:AB:22:TRP:HB2	3:AB:188:THR:HB	1.99	0.43
3:AB:89:PHE:N	3:AB:89:PHE:CD1	2.86	0.43
5:AD:94:GLU:CD	5:AD:99:ASN:HD21	2.21	0.43
7:AF:9:MET:HA	7:AF:58:HIS:O	2.19	0.43
7:AF:10:VAL:CG2	7:AF:11:HIS:N	2.82	0.43
7:AF:29:ILE:HD11	7:AF:64:VAL:CG2	2.48	0.43
12:AK:13:LYS:HZ2	12:AK:15:VAL:HG22	1.83	0.43
12:AK:22:ILE:HD12	12:AK:95:THR:HG21	2.00	0.43
16:AO:72:LYS:HD3	16:AO:72:LYS:C	2.38	0.43
22:B0:116:C:H2'	22:B0:117:G:O4'	2.19	0.43
22:B0:312:G:H2'	22:B0:313:G:C8	2.53	0.43
22:B0:351:C:H2'	22:B0:352:A:H4'	1.99	0.43
22:B0:494:G:N3	41:BQ:7:HIS:N	2.67	0.43
22:B0:531:C:N4	22:B0:563:G:H5''	2.25	0.43
22:B0:582:A:OP1	40:BO:10:ARG:NH1	2.52	0.43
22:B0:637:A:O2'	22:B0:638:G:H5'	2.18	0.43
22:B0:865:C:O2'	22:B0:866:A:H8	1.96	0.43
22:B0:869:G:H8	22:B0:869:G:O5'	2.00	0.43
22:B0:1019:U:O2	22:B0:1021:A:N1	2.51	0.43
22:B0:1120:G:H2'	22:B0:1121:C:C6	2.53	0.43
22:B0:1266:G:N2	22:B0:2013:A:OP2	2.48	0.43
22:B0:1579:A:O4'	26:BA:65:ASP:CG	2.56	0.43
22:B0:1814:G:C2	22:B0:1815:A:N7	2.87	0.43
22:B0:1869:G:H1'	22:B0:1872:A:H62	1.83	0.43
22:B0:2154:A:O2'	22:B0:2155:U:O4'	2.30	0.43
22:B0:2631:G:N2	22:B0:2787:C:C2	2.86	0.43
22:B0:2678:C:O4'	27:BB:125:TRP:HD1	1.96	0.43
25:B3:19:VAL:O	25:B3:22:LEU:HB3	2.18	0.43
25:B5:106:LEU:O	25:B5:110:LEU:HG	2.18	0.43
26:BA:143:VAL:HG11	26:BA:153:LEU:HD23	2.01	0.43
27:BB:6:GLY:HA3	27:BB:29:VAL:HG12	2.01	0.43
28:BC:112:LEU:HA	28:BC:118:LEU:CD2	2.46	0.43
28:BC:175:ILE:HB	28:BC:180:LEU:HD21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:BD:52:ALA:O	29:BD:53:ALA:HB3	2.17	0.43
29:BD:132:ARG:O	29:BD:135:ILE:HD11	2.19	0.43
30:BE:18:ILE:HD11	30:BE:20:GLY:O	2.18	0.43
32:BG:119:ALA:O	32:BG:123:ALA:HB3	2.19	0.43
33:BH:21:THR:O	33:BH:21:THR:HG23	2.18	0.43
35:BJ:84:LYS:C	35:BJ:86:GLU:H	2.22	0.43
36:BK:69:PRO:HB2	36:BK:92:TRP:CB	2.49	0.43
39:BN:32:VAL:HG22	39:BN:32:VAL:O	2.18	0.43
41:BQ:15:GLN:HA	41:BQ:15:GLN:HE21	1.84	0.43
42:BR:77:ARG:C	42:BR:77:ARG:NE	2.71	0.43
43:BS:66:VAL:O	43:BS:66:VAL:HG12	2.19	0.43
1:AA:157:U:H2'	1:AA:158:G:H8	1.82	0.43
1:AA:243:A:O2'	1:AA:244:U:P	2.77	0.43
1:AA:562:U:H5'	1:AA:563:A:C5	2.54	0.43
1:AA:1125:U:OP2	1:AA:1145:A:N6	2.52	0.43
1:AA:1405:G:H2'	1:AA:1406:U:H6	1.83	0.43
2:AW:61:C:O5'	2:AW:61:C:H6	2.02	0.43
4:AC:67:ILE:O	4:AC:67:ILE:HG23	2.18	0.43
4:AC:147:GLY:HA3	4:AC:171:ARG:O	2.19	0.43
5:AD:90:LEU:HD11	5:AD:196:GLU:HG3	2.00	0.43
6:AE:19:ARG:HG3	6:AE:19:ARG:HH11	1.82	0.43
6:AE:52:ALA:HB3	6:AE:58:ALA:HB2	2.01	0.43
7:AF:78:PHE:O	7:AF:84:VAL:HG11	2.19	0.43
17:AP:40:ASN:HD21	17:AP:42:ILE:HG22	1.83	0.43
21:AT:8:LYS:HB2	21:AT:8:LYS:HZ3	1.84	0.43
22:B0:121:G:H4'	22:B0:149:A:C4'	2.49	0.43
22:B0:269:C:C2'	22:B0:271:G:OP1	2.66	0.43
22:B0:293:U:N3	22:B0:347:A:C2	2.86	0.43
22:B0:404:A:H1'	22:B0:406:G:C4	2.53	0.43
22:B0:458:G:H2'	22:B0:459:U:OP2	2.19	0.43
22:B0:504:A:H5'	22:B0:512:G:OP2	2.17	0.43
22:B0:557:U:H2'	22:B0:558:G:C8	2.52	0.43
22:B0:638:G:H2'	22:B0:639:U:O4'	2.17	0.43
22:B0:661:A:H5'	35:BJ:28:GLY:H	1.84	0.43
22:B0:709:U:H2'	22:B0:710:U:C6	2.53	0.43
22:B0:763:G:N3	22:B0:763:G:H2'	2.33	0.43
22:B0:769:U:H2'	22:B0:770:G:C8	2.53	0.43
22:B0:856:G:H2'	22:B0:857:G:H8	1.83	0.43
22:B0:959:A:O4'	36:BK:80:VAL:HG12	2.19	0.43
22:B0:961:C:OP1	22:B0:2496:C:C4	2.71	0.43
22:B0:994:C:O2	22:B0:1160:G:N2	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1047:G:C2'	22:B0:1110:G:N2	2.82	0.43
22:B0:1493:A:C2	26:BA:183:VAL:O	2.71	0.43
22:B0:1578:U:OP2	26:BA:101:ARG:HB3	2.19	0.43
22:B0:1639:C:H2'	22:B0:1640:A:H5'	1.99	0.43
22:B0:1920:C:H2'	22:B0:1921:G:C8	2.53	0.43
22:B0:1992:G:H4'	22:B0:1993:U:OP1	2.18	0.43
22:B0:2213:U:H2'	22:B0:2214:C:C6	2.54	0.43
22:B0:2226:C:C5	22:B0:2227:A:H1'	2.54	0.43
22:B0:2334:U:H5	38:BM:10:ARG:NH1	2.16	0.43
22:B0:2491:U:H2'	22:B0:2492:U:C5'	2.48	0.43
22:B0:2581:G:C2'	22:B0:2582:G:OP2	2.67	0.43
22:B0:2596:U:C2'	22:B0:2597:G:H5'	2.48	0.43
23:B9:78:A:H61	23:B9:98:G:C1'	2.31	0.43
24:B2:7:MET:O	24:B2:11:ARG:N	2.48	0.43
25:B3:17:MET:HB2	25:B3:53:GLU:O	2.19	0.43
25:B5:81:LYS:HG2	25:B5:82:GLU:CD	2.39	0.43
26:BA:263:ASP:OD1	26:BA:264:LYS:HG3	2.19	0.43
27:BB:41:ALA:HB3	27:BB:48:ILE:HG23	1.99	0.43
27:BB:122:VAL:HG21	27:BB:141:ARG:HA	2.00	0.43
27:BB:165:MET:CG	27:BB:166:GLY:N	2.82	0.43
29:BD:79:ARG:HB3	29:BD:79:ARG:HH11	1.81	0.43
29:BD:113:PHE:H	29:BD:113:PHE:HD1	1.67	0.43
32:BG:124:MET:HA	32:BG:124:MET:CE	2.48	0.43
33:BH:109:LEU:O	33:BH:115:GLY:HA3	2.19	0.43
33:BH:118:MET:O	33:BH:118:MET:HG2	2.18	0.43
36:BK:6:ARG:O	36:BK:71:LYS:HA	2.18	0.43
37:BL:22:ARG:NH2	37:BL:69:ARG:HB3	2.34	0.43
38:BM:106:LEU:O	38:BM:106:LEU:HD13	2.18	0.43
39:BN:2:ASN:HD22	39:BN:4:ILE:CG1	2.32	0.43
40:BO:78:PHE:CD1	40:BO:79:ILE:N	2.87	0.43
48:BZ:31:LYS:HE2	48:BZ:47:TYR:HB3	2.00	0.43
1:AA:310:G:H1'	1:AA:607:A:H61	1.84	0.43
1:AA:409:U:O4	1:AA:429:U:H4'	2.19	0.43
1:AA:482:A:N3	1:AA:482:A:H2'	2.34	0.43
1:AA:738:C:H2'	1:AA:739:C:C6	2.53	0.43
1:AA:886:G:H4'	1:AA:915:A:H1'	2.00	0.43
1:AA:892:A:H2'	1:AA:893:C:H6	1.83	0.43
1:AA:1075:U:H4'	1:AA:1101:A:N6	2.33	0.43
1:AA:1385:G:HO2'	10:AI:128:LYS:HD2	1.82	0.43
2:AW:55:U:O2	2:AW:55:U:H3'	2.19	0.43
3:AB:62:ARG:HG2	3:AB:62:ARG:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AC:72:PRO:O	4:AC:76:ILE:HG13	2.17	0.43
5:AD:2:ARG:HG2	5:AD:2:ARG:HH11	1.84	0.43
5:AD:12:ARG:HD3	5:AD:29:THR:CG2	2.49	0.43
6:AE:63:MET:O	6:AE:67:ARG:HG3	2.19	0.43
9:AH:61:THR:HG23	9:AH:61:THR:O	2.18	0.43
10:AI:64:ILE:HG22	10:AI:65:THR:N	2.34	0.43
11:AJ:41:PRO:O	11:AJ:42:LEU:HB2	2.18	0.43
12:AK:33:ILE:HB	12:AK:73:VAL:HG21	2.00	0.43
22:B0:276:U:O2'	22:B0:278:A:P	2.76	0.43
22:B0:276:U:H2'	22:B0:362:A:N3	2.33	0.43
22:B0:503:A:H2'	22:B0:505:A:O4'	2.19	0.43
22:B0:678:C:H2'	22:B0:679:C:H6	1.83	0.43
22:B0:876:C:H2'	22:B0:877:A:H8	1.83	0.43
22:B0:958:U:O5'	36:BK:80:VAL:CG2	2.66	0.43
22:B0:970:U:H1'	22:B0:984:A:N3	2.33	0.43
22:B0:1243:C:O5'	22:B0:1243:C:H6	2.01	0.43
22:B0:1250:G:H4'	40:BO:8:ILE:CD1	2.36	0.43
22:B0:1325:U:H1'	41:BQ:87:PRO:HD2	2.00	0.43
22:B0:1346:G:N2	22:B0:1600:C:O2	2.51	0.43
22:B0:1425:G:N2	22:B0:1574:C:N4	2.66	0.43
22:B0:1427:A:N6	26:BA:58:LYS:CE	2.80	0.43
22:B0:1493:A:N3	26:BA:131:MET:HE1	2.34	0.43
22:B0:1764:C:H2'	22:B0:1765:U:C6	2.53	0.43
22:B0:2296:U:O2'	22:B0:2297:A:O4'	2.35	0.43
22:B0:2899:A:N1	33:BH:136:GLN:CA	2.79	0.43
23:B9:66:A:H2'	23:B9:67:G:OP2	2.17	0.43
24:B2:77:PHE:CZ	24:B2:103:ILE:HD11	2.52	0.43
24:B2:218:GLY:O	24:B2:219:ALA:C	2.56	0.43
25:B3:16:VAL:O	25:B3:20:VAL:N	2.50	0.43
26:BA:98:GLY:O	26:BA:99:GLU:HG2	2.19	0.43
26:BA:128:THR:O	26:BA:129:LEU:HD13	2.18	0.43
26:BA:159:THR:O	26:BA:160:TYR:HB3	2.18	0.43
27:BB:36:GLN:HA	27:BB:53:GLY:O	2.19	0.43
28:BC:4:VAL:HG23	28:BC:13:THR:HA	2.01	0.43
28:BC:45:ALA:HB3	28:BC:89:PRO:CB	2.48	0.43
28:BC:115:GLN:CD	28:BC:115:GLN:H	2.21	0.43
29:BD:107:VAL:HG23	29:BD:107:VAL:O	2.19	0.43
30:BE:71:LEU:HA	30:BE:74:MET:HE3	2.01	0.43
31:BF:46:PHE:HE1	31:BF:50:ARG:HH21	1.67	0.43
33:BH:93:ILE:CD1	33:BH:96:ARG:HE	2.28	0.43
33:BH:138:GLN:CD	33:BH:138:GLN:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BK:62:LYS:N	36:BK:62:LYS:HD2	2.33	0.43
39:BN:28:LYS:CE	39:BN:86:LYS:HB3	2.49	0.43
40:BO:32:ARG:NE	40:BO:32:ARG:CA	2.79	0.43
42:BR:33:LYS:HA	42:BR:82:LYS:CB	2.33	0.43
42:BR:39:THR:HG23	42:BR:40:LYS:H	1.82	0.43
43:BS:17:ASP:OD2	43:BS:38:ILE:HG23	2.18	0.43
43:BS:25:LYS:NZ	43:BS:36:GLU:HG2	2.34	0.43
43:BS:43:LYS:O	43:BS:45:GLN:N	2.49	0.43
45:BU:45:HIS:CG	45:BU:56:HIS:HB2	2.53	0.43
1:AA:34:C:H5'	1:AA:363:A:O2'	2.19	0.43
1:AA:47:C:O5'	1:AA:48:C:OP1	2.36	0.43
1:AA:630:A:H2'	1:AA:631:C:H5'	2.01	0.43
1:AA:657:U:H2'	1:AA:658:C:H6	1.84	0.43
1:AA:682:G:O2'	1:AA:683:G:H5'	2.18	0.43
1:AA:1062:U:N3	1:AA:1063:C:N4	2.67	0.43
1:AA:1237:C:O2'	1:AA:1334:G:H1'	2.19	0.43
1:AA:1474:U:H2'	1:AA:1475:G:C8	2.54	0.43
2:AV:21:A:HO2'	2:AV:22:G:H8	1.58	0.43
3:AB:206:ILE:HG23	3:AB:207:ARG:N	2.33	0.43
4:AC:117:ASP:HA	4:AC:120:THR:HG22	2.00	0.43
7:AF:22:ILE:HD13	7:AF:22:ILE:C	2.38	0.43
8:AG:112:ASP:OD2	8:AG:118:ARG:HG2	2.18	0.43
9:AH:2:MET:N	9:AH:2:MET:SD	2.91	0.43
10:AI:8:THR:HG22	10:AI:9:GLY:N	2.34	0.43
13:AL:29:LYS:C	13:AL:80:LEU:HD12	2.38	0.43
17:AP:2:VAL:HG13	17:AP:2:VAL:O	2.18	0.43
22:B0:49:A:H4'	22:B0:51:G:O4'	2.19	0.43
22:B0:416:U:O4	22:B0:2407:A:H2	2.01	0.43
22:B0:477:A:H2'	22:B0:478:A:C8	2.54	0.43
22:B0:704:G:H2'	22:B0:726:G:H21	1.84	0.43
22:B0:729:G:H4'	22:B0:763:G:H5'	2.01	0.43
22:B0:752:A:N6	22:B0:1781:U:O2'	2.52	0.43
22:B0:776:G:O2'	22:B0:777:G:P	2.77	0.43
22:B0:799:G:OP2	28:BC:57:LYS:CG	2.55	0.43
22:B0:958:U:OP1	36:BK:83:GLY:N	2.51	0.43
22:B0:1047:G:C2'	22:B0:1110:G:H22	2.24	0.43
22:B0:1141:U:O2'	22:B0:1142:A:P	2.77	0.43
22:B0:1329:U:H5''	22:B0:1330:C:OP2	2.19	0.43
22:B0:1397:U:O2'	22:B0:1398:C:P	2.76	0.43
22:B0:1488:G:H21	26:BA:200:MET:HE2	1.84	0.43
22:B0:1494:A:C4	22:B0:1494:A:H3'	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1542:C:C2'	22:B0:1543:G:H5'	2.39	0.43
22:B0:1629:U:H2'	22:B0:1630:A:H8	1.83	0.43
22:B0:1677:A:H2'	22:B0:1678:A:O4'	2.19	0.43
22:B0:1709:U:H2'	22:B0:1710:G:C8	2.54	0.43
22:B0:2136:G:O6	22:B0:2137:U:C4	2.72	0.43
22:B0:2456:C:H42	22:B0:2495:G:H1	1.66	0.43
22:B0:2494:G:H2'	22:B0:2495:G:C4'	2.49	0.43
22:B0:2498:C:H2'	22:B0:2499:C:C5'	2.45	0.43
22:B0:2676:C:H2'	22:B0:2677:G:H8	1.84	0.43
24:B2:20:TYR:HD1	24:B2:20:TYR:H	1.65	0.43
25:B5:46:GLU:HB3	25:B5:50:GLU:CG	2.48	0.43
28:BC:58:LYS:HA	28:BC:59:PRO:HD3	1.87	0.43
29:BD:52:ALA:C	29:BD:54:ALA:N	2.72	0.43
30:BE:89:VAL:O	30:BE:164:ALA:HA	2.19	0.43
31:BF:143:ILE:HG23	31:BF:143:ILE:O	2.19	0.43
32:BG:36:GLU:C	32:BG:38:CYS:N	2.72	0.43
33:BH:5:THR:HB	33:BH:6:ALA:H	1.67	0.43
38:BM:70:ALA:O	38:BM:74:VAL:HG23	2.19	0.43
38:BM:94:ARG:HG2	38:BM:94:ARG:HH11	1.83	0.43
40:BO:85:ALA:HB3	40:BO:111:LYS:HZ2	1.83	0.43
41:BQ:13:SER:O	41:BQ:14:ALA:HB3	2.19	0.43
42:BR:36:LYS:HD2	42:BR:80:TRP:HB3	2.01	0.43
43:BS:84:PHE:CG	43:BS:101:THR:HG21	2.54	0.43
45:BU:70:VAL:CG2	45:BU:71:LYS:H	2.28	0.43
48:BZ:41:HIS:HB2	48:BZ:46:GLY:HA2	2.00	0.43
1:AA:692:U:H5'	1:AA:797:C:C5'	2.48	0.43
1:AA:1281:C:H2'	1:AA:1282:C:OP1	2.19	0.43
1:AA:1392:G:H2'	1:AA:1393:U:C6	2.54	0.43
1:AA:1396:A:O2'	1:AA:1398:A:H1'	2.18	0.43
1:AA:1474:U:H2'	1:AA:1475:G:H8	1.84	0.43
1:AA:1528:U:O2'	1:AA:1529:G:H3'	2.19	0.43
2:AU:6:U:O2'	2:AU:7:U:H5'	2.19	0.43
2:AU:32:C:H2'	2:AU:33:U:C6	2.54	0.43
2:AU:37:G:H2'	2:AU:38:A:C8	2.54	0.43
4:AC:57:GLU:OE1	4:AC:64:ARG:HD2	2.18	0.43
4:AC:184:ASN:HD21	4:AC:199:VAL:CB	2.06	0.43
5:AD:104:MET:CE	5:AD:142:VAL:HB	2.49	0.43
7:AF:9:MET:HB2	7:AF:85:ILE:CG2	2.49	0.43
7:AF:38:ARG:HB3	7:AF:63:ASN:HD21	1.84	0.43
10:AI:80:HIS:O	10:AI:84:ARG:HG2	2.17	0.43
10:AI:103:VAL:O	10:AI:103:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AJ:18:ILE:CD1	11:AJ:70:HIS:HB2	2.49	0.43
15:AN:40:ARG:HA	20:AS:13:HIS:CA	2.48	0.43
15:AN:44:VAL:O	15:AN:44:VAL:HG12	2.19	0.43
17:AP:18:GLN:HG2	17:AP:20:VAL:CG2	2.49	0.43
20:AS:62:THR:HG22	20:AS:63:ASP:N	2.34	0.43
22:B0:24:G:H2'	22:B0:25:U:H6	1.84	0.43
22:B0:311:A:C6	22:B0:330:A:OP2	2.72	0.43
22:B0:376:G:H2'	22:B0:377:G:H8	1.84	0.43
22:B0:667:U:H5	35:BJ:48:ARG:HH12	1.67	0.43
22:B0:903:C:H2'	22:B0:904:G:H8	1.82	0.43
22:B0:912:C:H2'	22:B0:913:U:H6	1.79	0.43
22:B0:1022:G:H4'	22:B0:1023:U:O5'	2.19	0.43
22:B0:1289:C:H2'	22:B0:1290:C:C6	2.54	0.43
22:B0:1605:C:H4'	22:B0:1610:A:N6	2.34	0.43
22:B0:1615:C:O2'	22:B0:1616:A:OP1	2.31	0.43
22:B0:1966:A:H2'	22:B0:1966:A:N3	2.33	0.43
22:B0:2121:G:H1'	22:B0:2122:U:C4	2.54	0.43
22:B0:2249:U:C1'	22:B0:2275:C:N4	2.75	0.43
22:B0:2391:G:O2'	22:B0:2429:G:N2	2.52	0.43
22:B0:2899:A:C2	33:BH:136:GLN:HA	2.54	0.43
23:B9:95:U:H2'	23:B9:96:G:H8	1.84	0.43
25:B3:50:GLU:HB3	25:B5:15:SER:HA	1.99	0.43
28:BC:90:GLN:HB2	35:BJ:28:GLY:O	2.19	0.43
28:BC:153:LEU:HA	28:BC:189:THR:HG23	2.01	0.43
30:BE:127:GLN:NE2	30:BE:129:GLU:HB2	2.33	0.43
34:BI:9:ASN:O	34:BI:83:ALA:HA	2.19	0.43
37:BL:31:HIS:C	37:BL:33:ILE:H	2.23	0.43
37:BL:37:THR:C	37:BL:40:LYS:HB3	2.39	0.43
38:BM:18:LEU:HD12	38:BM:18:LEU:N	2.34	0.43
38:BM:31:THR:CG2	38:BM:32:PRO:HD2	2.49	0.43
38:BM:53:THR:OG1	38:BM:65:THR:HB	2.19	0.43
1:AA:153:C:N4	1:AA:168:G:H1	2.16	0.43
1:AA:337:G:H2'	1:AA:338:A:H8	1.82	0.43
1:AA:815:A:H4'	1:AA:817:C:C4	2.53	0.43
1:AA:1502:A:H2'	1:AA:1502:A:N3	2.34	0.43
4:AC:68:HIS:ND1	4:AC:103:ALA:HB3	2.33	0.43
4:AC:126:ARG:HB3	4:AC:126:ARG:CZ	2.49	0.43
7:AF:6:ILE:CD1	7:AF:89:VAL:HG12	2.48	0.43
14:AM:92:ARG:O	14:AM:92:ARG:HD3	2.19	0.43
15:AN:72:PHE:CE2	15:AN:74:ARG:HG2	2.54	0.43
16:AO:10:ILE:HA	16:AO:13:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AO:35:ILE:O	16:AO:39:GLN:HG3	2.18	0.43
17:AP:4:ILE:CG1	17:AP:21:VAL:HG22	2.43	0.43
18:AQ:35:LYS:HZ2	18:AQ:37:ILE:HG22	1.81	0.43
18:AQ:45:VAL:HG11	18:AQ:60:ILE:CG1	2.49	0.43
19:AR:47:ARG:HG3	19:AR:49:LYS:H	1.84	0.43
20:AS:15:LEU:O	20:AS:19:GLU:HG2	2.19	0.43
22:B0:828:U:O2	22:B0:828:U:C2'	2.55	0.43
22:B0:1270:C:O5'	22:B0:1270:C:H6	2.02	0.43
22:B0:1497:U:C6	26:BA:63:ILE:HD11	2.54	0.43
22:B0:1614:A:H61	41:BQ:92:ARG:HD2	1.83	0.43
22:B0:1784:A:H5''	22:B0:1785:A:OP1	2.19	0.43
22:B0:1939:U:O4	22:B0:1974:C:OP1	2.37	0.43
22:B0:2119:A:H2'	22:B0:2119:A:N3	2.33	0.43
22:B0:2127:G:H3'	22:B0:2166:U:C4'	2.48	0.43
22:B0:2328:A:O4'	45:BU:10:ARG:NE	2.52	0.43
22:B0:2676:C:O5'	27:BB:127:PHE:HE1	2.02	0.43
22:B0:2676:C:H3'	27:BB:127:PHE:CD1	2.54	0.43
24:B2:74:VAL:HG22	24:B2:112:VAL:CG1	2.49	0.43
25:B3:50:GLU:H	25:B3:51:LYS:N	2.17	0.43
25:B5:46:GLU:HB3	25:B5:50:GLU:OE2	2.18	0.43
26:BA:250:GLN:C	26:BA:252:LYS:H	2.22	0.43
28:BC:90:GLN:HB3	28:BC:91:ASP:H	1.72	0.43
28:BC:159:LEU:HA	28:BC:162:ARG:CD	2.49	0.43
29:BD:71:LYS:HE2	29:BD:71:LYS:CA	2.48	0.43
33:BH:68:LYS:HD3	33:BH:71:ASP:OD2	2.18	0.43
34:BI:19:VAL:CG1	34:BI:41:ILE:HG13	2.48	0.43
35:BJ:21:ARG:CD	35:BJ:22:GLY:H	2.27	0.43
35:BJ:135:ILE:HD13	35:BJ:135:ILE:N	2.34	0.43
40:BO:26:ALA:C	40:BO:28:SER:N	2.72	0.43
40:BO:36:GLN:C	40:BO:39:ILE:HG22	2.38	0.43
40:BO:48:ASP:HA	40:BO:50:ARG:CZ	2.48	0.43
40:BO:91:ARG:HG2	40:BO:91:ARG:NH1	2.34	0.43
43:BS:10:VAL:O	43:BS:11:ILE:HD13	2.18	0.43
1:AA:189:A:H2'	1:AA:190:A:H4'	2.00	0.42
1:AA:363:A:OP1	13:AL:80:LEU:HD13	2.19	0.42
1:AA:1021:A:H2'	1:AA:1022:A:C8	2.54	0.42
1:AA:1064:G:H4'	1:AA:1065:U:C5'	2.49	0.42
1:AA:1159:U:O2'	1:AA:1160:G:C8	2.71	0.42
1:AA:1349:A:H1'	1:AA:1374:A:C6	2.54	0.42
1:AA:1351:U:H3	1:AA:1371:G:H1	1.66	0.42
1:AA:1405:G:H2'	1:AA:1406:U:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1498:U:O2'	1:AA:1499:A:O5'	2.35	0.42
2:AV:21:A:O2'	2:AV:22:G:H8	2.01	0.42
3:AB:206:ILE:O	3:AB:210:THR:HG23	2.18	0.42
5:AD:201:GLU:O	5:AD:204:SER:HB3	2.19	0.42
15:AN:44:VAL:HG12	15:AN:47:LEU:HG	2.00	0.42
15:AN:66:THR:HB	15:AN:82:LYS:HE2	2.00	0.42
17:AP:53:ASP:OD1	17:AP:56:ARG:HB2	2.19	0.42
22:B0:42:A:H2'	22:B0:44:A:O4'	2.19	0.42
22:B0:300:A:C6	22:B0:336:C:OP2	2.72	0.42
22:B0:460:A:H5''	42:BR:72:GLN:CB	2.49	0.42
22:B0:631:A:H2'	22:B0:632:A:O4'	2.18	0.42
22:B0:720:U:H2'	22:B0:721:A:H8	1.83	0.42
22:B0:809:G:H4'	22:B0:1254:A:O4'	2.19	0.42
22:B0:868:U:C4	22:B0:909:A:C2	3.06	0.42
22:B0:956:G:OP2	36:BK:84:LYS:HG2	2.19	0.42
22:B0:1167:C:H2'	22:B0:1168:G:H8	1.83	0.42
22:B0:1415:G:H5'	22:B0:1416:G:OP1	2.19	0.42
22:B0:1419:A:H3'	22:B0:1420:U:C6	2.54	0.42
22:B0:1495:A:H62	26:BA:142:ASN:CG	2.18	0.42
22:B0:1581:A:N7	22:B0:1582:C:C4	2.87	0.42
22:B0:1775:U:O4	22:B0:1789:A:H2	2.02	0.42
22:B0:2294:G:H2'	22:B0:2295:C:O4'	2.19	0.42
22:B0:2340:A:H2'	22:B0:2341:G:C8	2.54	0.42
22:B0:2408:U:H2'	22:B0:2409:G:C8	2.53	0.42
22:B0:2678:C:N4	22:B0:2729:G:N2	2.52	0.42
22:B0:2895:C:O2'	33:BH:41:LYS:HG2	2.19	0.42
25:B3:3:THR:O	25:B3:7:ILE:HG13	2.19	0.42
25:B3:68:VAL:O	25:B3:72:VAL:HG23	2.19	0.42
25:B5:73:ARG:CB	25:B5:73:ARG:HH11	2.32	0.42
26:BA:81:GLU:HB2	26:BA:90:ILE:CD1	2.47	0.42
26:BA:136:VAL:HA	26:BA:163:ILE:HB	2.01	0.42
26:BA:141:HIS:NE2	26:BA:190:THR:HG22	2.35	0.42
27:BB:134:HIS:CE1	34:BI:30:ARG:HB2	2.54	0.42
29:BD:13:LYS:HD2	29:BD:13:LYS:N	2.34	0.42
29:BD:105:ILE:C	29:BD:107:VAL:N	2.72	0.42
31:BF:80:ILE:CD1	31:BF:102:ALA:HB1	2.49	0.42
33:BH:14:ASP:O	33:BH:15:TRP:CB	2.67	0.42
34:BI:43:ILE:HD11	34:BI:53:LYS:O	2.19	0.42
38:BM:16:ARG:HH21	45:BU:75:ASN:HB2	1.83	0.42
39:BN:13:LYS:O	39:BN:15:ASP:N	2.52	0.42
39:BN:25:VAL:HG22	39:BN:88:ARG:NE	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:61:ARG:HH11	39:BN:61:ARG:HG3	1.83	0.42
40:BO:68:ALA:C	40:BO:70:GLN:N	2.72	0.42
42:BR:66:LYS:O	42:BR:77:ARG:HD2	2.19	0.42
1:AA:50:A:N6	1:AA:361:G:C4'	2.81	0.42
1:AA:64:G:H4'	1:AA:65:A:H5''	2.01	0.42
1:AA:258:G:H1	1:AA:268:U:H3	1.67	0.42
1:AA:566:G:H4'	1:AA:567:G:C5'	2.38	0.42
1:AA:613:C:H2'	1:AA:614:C:C6	2.54	0.42
1:AA:665:A:H2'	1:AA:732:C:O2	2.18	0.42
1:AA:812:G:C2'	1:AA:813:U:OP2	2.67	0.42
1:AA:838:G:H2'	1:AA:839:U:H5''	2.01	0.42
1:AA:1009:U:H5''	15:AN:64:ARG:HH12	1.83	0.42
1:AA:1159:U:O4'	1:AA:1182:G:N2	2.52	0.42
1:AA:1221:G:P	20:AS:2:ARG:HG3	2.59	0.42
2:AV:20:G:H2'	2:AV:20:G:N3	2.34	0.42
2:AV:29:A:H2'	2:AV:30:G:C8	2.55	0.42
2:AV:38:A:C4	2:AV:39:U:O2	2.73	0.42
2:AW:56:C:N4	22:B0:2122:U:N3	2.67	0.42
3:AB:195:VAL:HB	3:AB:198:VAL:HB	2.00	0.42
4:AC:87:ARG:HH21	4:AC:100:ILE:CG2	2.30	0.42
7:AF:22:ILE:O	7:AF:25:TYR:HB3	2.19	0.42
8:AG:37:THR:HA	8:AG:40:SER:OG	2.19	0.42
10:AI:9:GLY:HA2	10:AI:80:HIS:CD2	2.53	0.42
10:AI:27:ILE:HA	10:AI:62:LEU:O	2.19	0.42
11:AJ:59:LYS:O	11:AJ:62:ARG:NH1	2.53	0.42
19:AR:60:ARG:O	19:AR:64:LEU:HG	2.19	0.42
21:AT:48:LYS:HB2	21:AT:48:LYS:HZ2	1.85	0.42
22:B0:57:C:P	42:BR:76:ARG:HD3	2.59	0.42
22:B0:279:A:C6	22:B0:363:G:OP1	2.72	0.42
22:B0:292:U:O5'	22:B0:292:U:C6	2.72	0.42
22:B0:400:G:C2'	22:B0:401:A:H5''	2.50	0.42
22:B0:508:A:O2'	22:B0:509:C:OP2	2.37	0.42
22:B0:617:G:H8	28:BC:173:THR:HG22	1.84	0.42
22:B0:675:A:H62	28:BC:61:ARG:NH2	2.16	0.42
22:B0:721:A:H2'	22:B0:722:A:C8	2.53	0.42
22:B0:1267:U:H2'	22:B0:1268:A:H8	1.84	0.42
22:B0:1456:G:H2'	22:B0:1457:G:O4'	2.19	0.42
22:B0:1458:C:H2'	22:B0:1459:U:C5'	2.49	0.42
22:B0:1491:A:C2	26:BA:174:ARG:N	2.87	0.42
22:B0:1493:A:C2	26:BA:131:MET:SD	3.12	0.42
22:B0:1497:U:N3	26:BA:90:ILE:HB	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1578:U:H4'	26:BA:64:VAL:CA	2.48	0.42
22:B0:1707:G:H2'	22:B0:1708:C:O4'	2.18	0.42
22:B0:2116:G:O3'	22:B0:2117:A:O4'	2.36	0.42
22:B0:2179:C:H5''	22:B0:2181:U:P	2.58	0.42
22:B0:2227:A:C3'	22:B0:2228:G:H5'	2.49	0.42
22:B0:2229:U:H2'	22:B0:2230:G:C8	2.53	0.42
22:B0:2293:G:H2'	22:B0:2294:G:C8	2.54	0.42
22:B0:2344:U:H4'	22:B0:2373:G:O2'	2.18	0.42
22:B0:2357:G:C5'	22:B0:2358:A:OP1	2.62	0.42
22:B0:2443:C:H2'	22:B0:2444:G:C8	2.52	0.42
22:B0:2454:G:N1	22:B0:2499:C:N4	2.67	0.42
22:B0:2501:C:H5''	22:B0:2503:A:C5'	2.29	0.42
22:B0:2606:C:H2'	22:B0:2607:G:H8	1.83	0.42
23:B9:108:A:O3'	23:B9:109:A:H4'	2.19	0.42
25:B3:96:GLU:HB3	25:B5:8:ILE:CA	2.48	0.42
25:B3:99:SER:H	25:B3:102:ASP:HB2	1.84	0.42
25:B5:47:ALA:C	25:B5:49:GLU:N	2.73	0.42
27:BB:171:THR:O	27:BB:171:THR:HG23	2.19	0.42
28:BC:166:LYS:HE2	35:BJ:10:GLU:N	2.34	0.42
28:BC:181:ILE:O	35:BJ:17:LYS:HG2	2.19	0.42
29:BD:90:LEU:O	29:BD:90:LEU:HD22	2.20	0.42
30:BE:148:ARG:NH2	30:BE:167:VAL:HG13	2.34	0.42
33:BH:37:ARG:H	33:BH:37:ARG:CD	2.27	0.42
35:BJ:74:THR:HA	35:BJ:107:PHE:HB2	2.00	0.42
39:BN:40:GLN:OE1	39:BN:40:GLN:N	2.51	0.42
40:BO:18:LYS:O	40:BO:19:GLN:HB3	2.19	0.42
45:BU:20:LEU:HD23	45:BU:20:LEU:N	2.25	0.42
45:BU:57:THR:OG1	45:BU:58:LEU:N	2.53	0.42
1:AA:115:G:C2'	1:AA:116:A:OP2	2.66	0.42
1:AA:496:A:H5'	1:AA:497:G:OP1	2.18	0.42
1:AA:1084:G:H1'	1:AA:1102:A:N7	2.34	0.42
1:AA:1166:G:N2	1:AA:1168:U:H3'	2.34	0.42
1:AA:1304:G:H1'	1:AA:1333:A:H61	1.83	0.42
1:AA:1349:A:H61	1:AA:1373:G:H1'	1.83	0.42
1:AA:1501:C:H2'	1:AA:1504:G:C6	2.54	0.42
2:AV:40:C:H2'	2:AV:41:U:C6	2.53	0.42
4:AC:148:ILE:HG12	4:AC:201:ILE:HD13	2.01	0.42
6:AE:36:THR:HG21	6:AE:63:MET:HA	2.00	0.42
16:AO:66:LEU:HD11	16:AO:86:LEU:HD23	2.02	0.42
20:AS:80:ARG:HG2	20:AS:80:ARG:HH11	1.84	0.42
21:AT:85:LEU:HD12	21:AT:85:LEU:H	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:273:G:H2'	22:B0:274:C:O4'	2.20	0.42
22:B0:274:C:H2'	22:B0:275:C:O4'	2.19	0.42
22:B0:292:U:C2	22:B0:348:A:N1	2.87	0.42
22:B0:317:G:O2'	22:B0:318:C:H5'	2.19	0.42
22:B0:446:G:H4'	22:B0:449:A:H1'	2.02	0.42
22:B0:474:G:O2'	22:B0:475:C:OP1	2.30	0.42
22:B0:574:A:H5''	22:B0:575:A:H5''	2.02	0.42
22:B0:589:U:H3'	28:BC:47:LYS:HB2	2.02	0.42
22:B0:663:G:OP2	28:BC:88:ARG:CD	2.67	0.42
22:B0:693:A:O2'	22:B0:694:U:H5'	2.20	0.42
22:B0:800:A:C5'	22:B0:801:G:OP1	2.62	0.42
22:B0:816:C:H2'	22:B0:817:C:C6	2.54	0.42
22:B0:959:A:O4'	36:BK:80:VAL:CB	2.68	0.42
22:B0:1141:U:H4'	22:B0:1142:A:H5'	1.99	0.42
22:B0:1300:G:HO2'	22:B0:1301:A:P	2.41	0.42
22:B0:1441:G:H2'	22:B0:1442:U:O4'	2.20	0.42
22:B0:1606:C:H5''	22:B0:1607:C:H5'	2.01	0.42
22:B0:1802:A:P	22:B0:1802:A:H8	2.42	0.42
22:B0:1825:U:H2'	22:B0:1826:G:C8	2.54	0.42
22:B0:1832:C:H3'	22:B0:1833:C:C5'	2.34	0.42
22:B0:1943:U:H4'	22:B0:1945:G:OP2	2.19	0.42
22:B0:2043:C:H5	22:B0:2777:G:O4'	2.02	0.42
22:B0:2063:C:O4'	22:B0:2585:U:H1'	2.18	0.42
22:B0:2214:C:H2'	22:B0:2215:C:O4'	2.19	0.42
22:B0:2228:G:C2'	22:B0:2229:U:H5'	2.49	0.42
22:B0:2282:G:H2'	22:B0:2283:C:OP2	2.19	0.42
22:B0:2595:G:N3	22:B0:2597:G:C8	2.87	0.42
22:B0:2825:G:O2'	22:B0:2826:A:H5'	2.19	0.42
23:B9:111:U:H2'	23:B9:112:G:C8	2.54	0.42
24:B2:150:GLU:HA	24:B2:153:LYS:HE2	2.01	0.42
26:BA:104:LEU:CD1	26:BA:126:GLY:HA2	2.49	0.42
26:BA:163:ILE:HG13	26:BA:173:LEU:CD2	2.44	0.42
28:BC:91:ASP:O	35:BJ:26:GLY:O	2.37	0.42
28:BC:178:VAL:HG22	28:BC:179:SER:N	2.34	0.42
29:BD:169:LEU:HD23	29:BD:169:LEU:C	2.39	0.42
32:BG:66:PHE:CD1	32:BG:66:PHE:N	2.86	0.42
33:BH:3:THR:HG23	33:BH:3:THR:O	2.19	0.42
35:BJ:33:ARG:CD	35:BJ:33:ARG:H	2.32	0.42
35:BJ:111:ILE:N	35:BJ:111:ILE:CD1	2.79	0.42
37:BL:42:LYS:NZ	37:BL:43:GLU:HB3	2.33	0.42
39:BN:88:ARG:NH1	39:BN:89:GLY:O	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BN:113:LEU:HD13	39:BN:114:ASN:OXT	2.18	0.42
40:BO:24:TYR:HD2	40:BO:27:ARG:HB2	1.85	0.42
40:BO:26:ALA:O	40:BO:28:SER:N	2.53	0.42
44:BT:82:TYR:CE1	44:BT:83:LYS:HG2	2.54	0.42
45:BU:13:ARG:CG	45:BU:14:ASP:N	2.80	0.42
49:B1:24:LYS:HE3	49:B1:24:LYS:O	2.19	0.42
49:B1:35:LEU:HD22	49:B1:35:LEU:N	2.34	0.42
1:AA:225:C:H2'	1:AA:226:G:C8	2.55	0.42
1:AA:549:C:O5'	1:AA:549:C:H6	2.02	0.42
1:AA:722:G:O6	1:AA:733:G:N2	2.50	0.42
1:AA:824:G:H2'	1:AA:825:A:C8	2.54	0.42
1:AA:853:C:H2'	1:AA:854:U:H6	1.84	0.42
1:AA:892:A:H4'	1:AA:1415:G:C4'	2.48	0.42
1:AA:1017:U:H2'	1:AA:1018:G:C8	2.54	0.42
1:AA:1157:A:H5'	1:AA:1158:C:C5	2.54	0.42
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.54	0.42
1:AA:1271:A:O5'	1:AA:1314:C:H4'	2.18	0.42
1:AA:1294:G:O2'	1:AA:1295:U:H5'	2.19	0.42
1:AA:1408:A:H2'	1:AA:1409:C:H6	1.85	0.42
1:AA:1425:U:H2'	1:AA:1426:G:H8	1.85	0.42
1:AA:1463:U:H2'	1:AA:1464:U:C6	2.54	0.42
1:AA:1499:A:O2'	1:AA:1520:C:H5''	2.19	0.42
2:AU:55:U:O2	2:AU:55:U:H3'	2.18	0.42
3:AB:234:GLU:HA	3:AB:237:VAL:HG23	2.01	0.42
4:AC:35:ASP:O	4:AC:38:VAL:HG22	2.20	0.42
4:AC:102:ILE:HD12	4:AC:102:ILE:O	2.20	0.42
5:AD:205:LYS:HE2	5:AD:205:LYS:CA	2.50	0.42
6:AE:40:ASP:OD2	6:AE:44:ARG:HB2	2.18	0.42
6:AE:111:ARG:O	6:AE:115:GLU:HG3	2.19	0.42
12:AK:58:THR:OG1	12:AK:59:PRO:HD2	2.19	0.42
13:AL:66:ILE:HA	13:AL:96:THR:CG2	2.49	0.42
14:AM:112:ARG:HG3	14:AM:112:ARG:HH11	1.84	0.42
16:AO:23:SER:O	16:AO:27:GLN:HG3	2.20	0.42
22:B0:49:A:C4'	22:B0:51:G:O4'	2.68	0.42
22:B0:214:G:O2'	22:B0:215:G:H5'	2.19	0.42
22:B0:265:A:H62	22:B0:428:A:C1'	2.33	0.42
22:B0:291:G:C2	22:B0:349:U:C2	3.08	0.42
22:B0:489:G:H4'	22:B0:1284:A:N3	2.34	0.42
22:B0:776:G:C2'	22:B0:777:G:OP2	2.68	0.42
22:B0:784:G:C5'	22:B0:785:G:OP1	2.59	0.42
22:B0:978:G:H2'	22:B0:979:A:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1175:A:H2'	22:B0:1177:G:C8	2.55	0.42
22:B0:1204:A:OP1	28:BC:148:ILE:HA	2.19	0.42
22:B0:1407:G:H2'	22:B0:1408:G:H8	1.84	0.42
22:B0:1426:G:O5'	22:B0:1428:C:N4	2.52	0.42
22:B0:1659:G:C2'	22:B0:1660:G:H5'	2.49	0.42
22:B0:1679:A:H2	22:B0:1764:C:C6	2.37	0.42
22:B0:1709:U:H2'	22:B0:1710:G:H8	1.84	0.42
22:B0:2058:A:O2'	22:B0:2059:A:P	2.77	0.42
22:B0:2161:C:C6	24:B2:6:ARG:N	2.84	0.42
22:B0:2214:C:C2'	22:B0:2215:C:H5'	2.50	0.42
22:B0:2282:G:C2'	22:B0:2283:C:OP2	2.67	0.42
22:B0:2304:G:O4'	22:B0:2304:G:OP1	2.37	0.42
22:B0:2357:G:O2'	22:B0:2358:A:C8	2.72	0.42
22:B0:2812:G:N2	22:B0:2889:C:C4	2.87	0.42
26:BA:96:LYS:O	26:BA:97:ASP:C	2.57	0.42
26:BA:131:MET:C	26:BA:133:ASN:H	2.23	0.42
26:BA:141:HIS:O	26:BA:190:THR:N	2.30	0.42
26:BA:147:PRO:HG3	26:BA:184:GLU:OE2	2.20	0.42
26:BA:184:GLU:CG	26:BA:185:ALA:N	2.79	0.42
28:BC:27:LEU:HA	28:BC:30:GLN:HB3	2.01	0.42
28:BC:44:ARG:CA	28:BC:90:GLN:HA	2.49	0.42
28:BC:49:ARG:CG	28:BC:50:ALA:N	2.79	0.42
28:BC:72:SER:HB2	28:BC:78:TRP:NE1	2.34	0.42
29:BD:30:VAL:HG12	29:BD:31:GLU:N	2.35	0.42
29:BD:91:ARG:NH1	29:BD:95:MET:HB2	2.35	0.42
35:BJ:17:LYS:O	35:BJ:18:ARG:NH2	2.52	0.42
35:BJ:126:ARG:HD3	35:BJ:126:ARG:N	2.34	0.42
38:BM:15:ARG:NH1	38:BM:25:ARG:HH11	2.18	0.42
38:BM:30:ARG:HG2	38:BM:30:ARG:HH11	1.84	0.42
39:BN:4:ILE:HG13	39:BN:5:LYS:HD3	2.01	0.42
39:BN:93:LYS:O	39:BN:94:ALA:HB2	2.20	0.42
42:BR:43:ILE:HB	42:BR:60:THR:HG22	2.01	0.42
46:BW:39:GLN:HG3	46:BW:41:HIS:H	1.85	0.42
46:BW:39:GLN:CD	46:BW:41:HIS:H	2.22	0.42
48:BZ:29:VAL:HG11	48:BZ:32:THR:CG2	2.50	0.42
1:AA:243:A:H4'	1:AA:244:U:H5''	2.01	0.42
1:AA:243:A:H4'	1:AA:245:U:OP1	2.18	0.42
1:AA:250:A:O2'	1:AA:251:G:O5'	2.35	0.42
1:AA:416:G:H1	1:AA:427:U:H3	1.67	0.42
1:AA:442:G:H2'	1:AA:443:C:C6	2.54	0.42
1:AA:702:A:H62	22:B0:1847:A:C3'	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1098:C:O5'	1:AA:1098:C:H6	2.01	0.42
1:AA:1218:C:H2'	1:AA:1219:A:H8	1.82	0.42
2:AU:55:U:O2	2:AU:55:U:C2'	2.66	0.42
4:AC:24:ASN:O	4:AC:28:PHE:N	2.51	0.42
4:AC:76:ILE:HA	4:AC:83:VAL:CG1	2.39	0.42
4:AC:183:TYR:CG	4:AC:184:ASN:N	2.87	0.42
5:AD:144:ILE:HB	5:AD:149:LYS:CE	2.49	0.42
11:AJ:7:ARG:CB	11:AJ:7:ARG:HH11	2.33	0.42
17:AP:14:ARG:NH1	17:AP:14:ARG:CB	2.76	0.42
18:AQ:76:ARG:HG2	18:AQ:76:ARG:HH11	1.84	0.42
22:B0:108:G:H2'	22:B0:109:C:C6	2.54	0.42
22:B0:311:A:O4'	22:B0:332:A:C8	2.72	0.42
22:B0:373:U:O2'	22:B0:423:A:H1'	2.19	0.42
22:B0:538:A:H2'	22:B0:539:G:C5'	2.48	0.42
22:B0:928:A:O4'	47:BX:42:ALA:HB3	2.20	0.42
22:B0:960:A:OP2	22:B0:2496:C:C6	2.73	0.42
22:B0:1213:A:H62	22:B0:1236:G:H1'	1.84	0.42
22:B0:1391:U:OP1	22:B0:1539:A:H4'	2.19	0.42
22:B0:1418:G:O6	26:BA:101:ARG:HG3	2.19	0.42
22:B0:1473:C:H3'	22:B0:1474:U:H5'	2.02	0.42
22:B0:1768:C:H2'	22:B0:1769:U:H6	1.84	0.42
22:B0:2071:A:H2'	22:B0:2072:C:H6	1.84	0.42
22:B0:2178:C:OP1	22:B0:2180:U:O2	2.37	0.42
22:B0:2286:G:H1'	22:B0:2287:A:C5	2.55	0.42
22:B0:2808:G:O4'	22:B0:2892:G:N2	2.53	0.42
25:B3:73:ARG:CB	25:B3:73:ARG:HH11	2.33	0.42
25:B3:92:ALA:O	25:B3:94:LEU:N	2.53	0.42
26:BA:170:TYR:HD1	26:BA:171:VAL:N	2.17	0.42
26:BA:196:ASN:O	26:BA:196:ASN:OD1	2.38	0.42
27:BB:89:GLU:CG	27:BB:90:PHE:N	2.82	0.42
29:BD:129:MET:N	29:BD:129:MET:SD	2.92	0.42
31:BF:29:PHE:C	31:BF:32:PRO:HD2	2.40	0.42
31:BF:129:GLU:HG3	31:BF:129:GLU:O	2.20	0.42
33:BH:104:ALA:C	33:BH:106:LYS:N	2.72	0.42
37:BL:84:GLY:N	37:BL:86:ARG:HB2	2.35	0.42
41:BQ:18:ARG:C	41:BQ:20:VAL:N	2.65	0.42
41:BQ:31:GLN:HA	41:BQ:34:ASP:OD1	2.19	0.42
41:BQ:35:ILE:O	41:BQ:36:LEU:CB	2.59	0.42
42:BR:92:ASN:O	42:BR:94:ASP:N	2.53	0.42
46:BW:9:LYS:HB3	46:BW:13:GLU:HB2	2.01	0.42
46:BW:18:LEU:HD13	46:BW:18:LEU:C	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:51:ARG:CZ	48:BZ:51:ARG:HB2	2.49	0.42
49:B1:35:LEU:HB2	49:B1:50:GLU:OE2	2.19	0.42
1:AA:32:A:O2'	1:AA:33:A:H5'	2.18	0.42
1:AA:125:U:H2'	1:AA:126:G:C8	2.55	0.42
1:AA:638:U:H2'	1:AA:639:G:H8	1.83	0.42
1:AA:685:G:H2'	1:AA:686:U:C6	2.54	0.42
1:AA:1025:U:H2'	1:AA:1026:G:C8	2.54	0.42
1:AA:1102:A:O2'	1:AA:1103:C:H5'	2.20	0.42
1:AA:1129:C:H1'	1:AA:1132:C:H5	1.85	0.42
1:AA:1212:U:O2'	1:AA:1213:A:O4'	2.36	0.42
2:AV:6:U:O2'	2:AV:7:U:H5'	2.18	0.42
2:AW:16:U:P	2:AW:16:U:H6	2.42	0.42
4:AC:24:ASN:ND2	4:AC:27:GLU:C	2.72	0.42
4:AC:190:THR:HB	4:AC:193:GLY:O	2.20	0.42
5:AD:63:ILE:O	5:AD:110:ARG:HD2	2.19	0.42
7:AF:22:ILE:HD13	7:AF:26:THR:HG23	2.02	0.42
10:AI:34:LEU:CD2	10:AI:48:ARG:HD3	2.49	0.42
12:AK:118:ASN:ND2	12:AK:119:GLY:H	2.18	0.42
14:AM:1:ALA:HA	14:AM:2:ARG:CZ	2.49	0.42
14:AM:67:ASP:O	14:AM:71:GLU:HG3	2.20	0.42
15:AN:40:ARG:HA	20:AS:13:HIS:CB	2.49	0.42
16:AO:80:LEU:HD23	16:AO:80:LEU:C	2.39	0.42
21:AT:22:SER:O	21:AT:25:SER:HB3	2.19	0.42
22:B0:99:U:H5'	22:B0:102:U:O4'	2.19	0.42
22:B0:606:U:H5''	28:BC:102:ARG:HH22	1.84	0.42
22:B0:639:U:H2'	22:B0:640:C:C5	2.54	0.42
22:B0:661:A:P	35:BJ:27:LEU:HD22	2.60	0.42
22:B0:666:A:OP2	35:BJ:48:ARG:HB2	2.20	0.42
22:B0:921:C:O5'	22:B0:921:C:H6	2.02	0.42
22:B0:966:G:H2'	22:B0:967:U:C6	2.55	0.42
22:B0:996:A:H5''	40:BO:92:LYS:CD	2.48	0.42
22:B0:1062:G:H2'	22:B0:1063:G:H8	1.83	0.42
22:B0:1495:A:P	26:BA:189:ALA:HB3	2.60	0.42
22:B0:1797:G:H2'	22:B0:1798:U:C6	2.55	0.42
22:B0:1944:U:H1'	22:B0:1955:U:O4'	2.18	0.42
22:B0:2105:U:H2'	22:B0:2106:U:C6	2.54	0.42
22:B0:2566:A:H61	34:BI:28:SER:HB3	1.85	0.42
28:BC:176:ASP:O	28:BC:178:VAL:N	2.53	0.42
28:BC:194:LYS:HA	28:BC:197:GLU:OE1	2.19	0.42
29:BD:25:MET:SD	29:BD:25:MET:N	2.88	0.42
33:BH:23:LYS:HE3	33:BH:28:LEU:HD23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:BH:31:GLU:C	33:BH:33:ALA:N	2.72	0.42
33:BH:48:VAL:HG12	33:BH:49:ASP:N	2.35	0.42
35:BJ:99:ASN:C	35:BJ:101:ILE:H	2.23	0.42
40:BO:14:LYS:HG3	40:BO:15:LYS:N	2.34	0.42
40:BO:48:ASP:HB3	40:BO:50:ARG:NH2	2.35	0.42
41:BQ:22:ASP:O	41:BQ:23:LEU:HB2	2.19	0.42
42:BR:42:GLU:C	42:BR:44:LYS:H	2.23	0.42
43:BS:65:GLN:HB2	43:BS:68:ASN:OD1	2.20	0.42
45:BU:24:ARG:C	45:BU:58:LEU:HD11	2.40	0.42
45:BU:36:ILE:HG23	45:BU:68:PHE:CB	2.46	0.42
49:B1:24:LYS:HE3	49:B1:24:LYS:H	1.83	0.42
1:AA:6:G:H3'	1:AA:6:G:N3	2.34	0.42
1:AA:243:A:N6	1:AA:281:G:N3	2.68	0.42
1:AA:305:G:H4'	1:AA:306:A:C8	2.54	0.42
1:AA:498:U:H2'	1:AA:499:A:O5'	2.20	0.42
1:AA:687:A:O2'	1:AA:688:G:OP2	2.38	0.42
1:AA:742:G:O2'	1:AA:743:A:H5'	2.19	0.42
1:AA:893:C:OP1	1:AA:1416:G:H5'	2.20	0.42
1:AA:1085:U:H1'	1:AA:1094:G:C6	2.55	0.42
1:AA:1099:G:C4	1:AA:1100:C:H1'	2.54	0.42
1:AA:1158:C:H2'	1:AA:1159:U:H4'	2.01	0.42
2:AU:67:A:H2'	2:AU:68:U:C6	2.55	0.42
3:AB:170:ILE:H	3:AB:170:ILE:CD1	2.32	0.42
4:AC:64:ARG:HH11	4:AC:64:ARG:HG3	1.85	0.42
10:AI:118:ARG:HH12	10:AI:124:PRO:CB	2.32	0.42
11:AJ:17:LEU:HD13	11:AJ:96:VAL:CG2	2.50	0.42
12:AK:39:ASN:O	12:AK:41:LEU:HD22	2.20	0.42
15:AN:63:CYS:HB2	15:AN:79:SER:OG	2.20	0.42
16:AO:23:SER:HB2	16:AO:26:VAL:CG2	2.50	0.42
16:AO:57:ARG:NH1	16:AO:57:ARG:HG2	2.34	0.42
17:AP:6:LEU:CD1	17:AP:71:VAL:HB	2.50	0.42
19:AR:24:ASP:OD2	19:AR:27:THR:HG22	2.20	0.42
19:AR:40:PRO:O	19:AR:44:THR:HG22	2.19	0.42
21:AT:60:GLN:C	21:AT:66:ILE:HG22	2.39	0.42
22:B0:192:C:H5	22:B0:203:A:H2	1.66	0.42
22:B0:493:G:N3	41:BQ:8:ARG:N	2.67	0.42
22:B0:535:G:H1'	40:BO:52:ARG:CD	2.49	0.42
22:B0:800:A:OP2	28:BC:53:THR:O	2.38	0.42
22:B0:832:U:OP1	22:B0:942:G:OP1	2.37	0.42
22:B0:1165:A:H2'	22:B0:1166:G:H8	1.85	0.42
22:B0:1342:A:O2'	22:B0:1343:G:OP1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1455:U:N3	37:BL:64:ARG:NH2	2.67	0.42
22:B0:1578:U:OP1	26:BA:61:TYR:CE2	2.72	0.42
22:B0:1643:G:O2'	22:B0:1644:C:H5'	2.20	0.42
22:B0:1880:U:O2'	22:B0:1881:C:H5'	2.20	0.42
22:B0:1956:U:O5'	22:B0:1956:U:H6	2.03	0.42
22:B0:2104:C:H2'	22:B0:2105:U:C6	2.54	0.42
22:B0:2146:C:C2'	22:B0:2147:A:H5''	2.50	0.42
22:B0:2153:C:O2	22:B0:2153:C:C2'	2.67	0.42
22:B0:2328:A:N6	22:B0:2386:A:N6	2.68	0.42
22:B0:2438:U:H5'	22:B0:2600:A:H4'	1.99	0.42
22:B0:2645:G:O2'	22:B0:2646:C:H5'	2.18	0.42
22:B0:2676:C:H4'	27:BB:159:LYS:HE3	2.01	0.42
27:BB:82:PHE:O	27:BB:83:ARG:HG3	2.20	0.42
29:BD:32:LYS:HD2	29:BD:32:LYS:C	2.40	0.42
29:BD:101:ARG:O	29:BD:105:ILE:HD11	2.19	0.42
29:BD:111:ARG:HD2	29:BD:112:ASP:N	2.33	0.42
33:BH:18:VAL:HG23	33:BH:19:ASP:N	2.35	0.42
33:BH:20:ALA:HA	33:BH:23:LYS:HZ1	1.84	0.42
35:BJ:80:SER:HB2	35:BJ:84:LYS:HE3	2.01	0.42
36:BK:34:LYS:HB3	36:BK:34:LYS:HZ3	1.82	0.42
37:BL:30:ARG:NH1	37:BL:75:ILE:HD12	2.35	0.42
37:BL:67:PHE:O	37:BL:67:PHE:HD1	2.02	0.42
39:BN:9:GLN:NE2	39:BN:9:GLN:N	2.55	0.42
39:BN:37:LYS:CD	39:BN:39:LEU:HB2	2.50	0.42
40:BO:50:ARG:O	40:BO:50:ARG:HG2	2.19	0.42
47:BX:17:PRO:O	47:BX:18:LYS:HB2	2.19	0.42
49:B1:32:LYS:NZ	49:B1:32:LYS:CA	2.77	0.42
1:AA:722:G:H3'	1:AA:722:G:N3	2.34	0.42
1:AA:1193:G:C2'	1:AA:1194:U:H5'	2.50	0.42
1:AA:1392:G:H21	1:AA:1502:A:C1'	2.32	0.42
1:AA:1395:C:O5'	1:AA:1395:C:H6	2.03	0.42
2:AV:20:G:H3'	2:AV:21:A:H5''	1.91	0.42
2:AW:6:U:O2'	2:AW:7:U:H5'	2.18	0.42
2:AW:23:A:H2'	2:AW:24:G:H8	1.83	0.42
3:AB:95:TRP:CH2	3:AB:171:ALA:HA	2.55	0.42
4:AC:86:LEU:HA	4:AC:89:VAL:HG22	2.02	0.42
5:AD:12:ARG:NH1	5:AD:29:THR:HG21	2.34	0.42
6:AE:80:LEU:CG	6:AE:146:MET:HE1	2.49	0.42
11:AJ:45:ARG:HG2	11:AJ:45:ARG:HH11	1.85	0.42
14:AM:97:ARG:NH2	14:AM:108:ARG:HG3	2.32	0.42
18:AQ:30:HIS:HE1	18:AQ:32:ILE:HD13	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AR:7:ARG:HH11	19:AR:7:ARG:CB	2.33	0.42
21:AT:27:MET:CE	21:AT:57:VAL:HG23	2.50	0.42
22:B0:28:A:N6	22:B0:512:G:C1'	2.79	0.42
22:B0:205:G:H2'	22:B0:206:U:OP2	2.19	0.42
22:B0:283:G:O2'	22:B0:284:U:H5'	2.20	0.42
22:B0:284:U:H2'	22:B0:285:G:H8	1.85	0.42
22:B0:293:U:H2'	22:B0:295:G:H8	1.81	0.42
22:B0:675:A:C1'	22:B0:2443:C:O2'	2.65	0.42
22:B0:705:A:C5'	22:B0:1695:G:H4'	2.49	0.42
22:B0:959:A:N6	22:B0:2250:G:H3'	2.35	0.42
22:B0:989:G:HO2'	22:B0:990:A:P	2.40	0.42
22:B0:1140:C:O2'	22:B0:1143:A:H3'	2.19	0.42
22:B0:1369:G:H2'	22:B0:1370:C:C6	2.54	0.42
22:B0:1416:G:C8	26:BA:100:ARG:HD3	2.55	0.42
22:B0:1495:A:H61	26:BA:150:GLY:C	2.23	0.42
22:B0:1498:C:P	26:BA:85:ASN:HD21	2.43	0.42
22:B0:2180:U:O5'	22:B0:2180:U:C6	2.72	0.42
22:B0:2345:G:O6	22:B0:2373:G:O6	2.38	0.42
22:B0:2879:A:H5'	22:B0:2880:C:OP1	2.20	0.42
27:BB:13:ARG:O	39:BN:7:LEU:HD12	2.20	0.42
27:BB:58:ASN:HA	27:BB:61:THR:CG2	2.46	0.42
27:BB:164:GLN:HA	27:BB:164:GLN:NE2	2.35	0.42
28:BC:93:SER:OG	35:BJ:23:ILE:HD12	2.18	0.42
28:BC:108:ILE:HD11	28:BC:181:ILE:HG23	2.02	0.42
30:BE:142:GLN:HE21	30:BE:142:GLN:HA	1.83	0.42
34:BI:57:VAL:HG23	34:BI:57:VAL:O	2.20	0.42
37:BL:116:VAL:HG22	37:BL:116:VAL:OXT	2.19	0.42
39:BN:52:ARG:HG2	39:BN:52:ARG:HH11	1.84	0.42
40:BO:47:ARG:HA	40:BO:47:ARG:CZ	2.49	0.42
45:BU:47:GLY:C	45:BU:54:ARG:HB3	2.40	0.42
49:B1:34:GLU:HB2	49:B1:35:LEU:H	1.62	0.42
1:AA:372:C:C2'	1:AA:373:A:OP2	2.68	0.42
1:AA:485:U:O2'	1:AA:486:U:C6	2.73	0.42
1:AA:652:U:O2'	1:AA:653:U:C6	2.68	0.42
1:AA:687:A:C4'	1:AA:688:G:O5'	2.64	0.42
1:AA:716:A:C2'	12:AK:119:GLY:HA2	2.49	0.42
1:AA:877:G:H5'	9:AH:79:ARG:NH1	2.35	0.42
1:AA:1073:U:H3	1:AA:1102:A:H61	1.66	0.42
3:AB:33:ALA:HA	3:AB:37:VAL:O	2.19	0.42
3:AB:104:LYS:HD3	3:AB:104:LYS:C	2.39	0.42
4:AC:125:ARG:O	4:AC:126:ARG:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AD:10:LEU:HD13	5:AD:62:ARG:HH11	1.84	0.42
5:AD:61:ARG:HG3	5:AD:66:VAL:HG23	2.02	0.42
6:AE:136:VAL:HG23	6:AE:137:ARG:CD	2.48	0.42
10:AI:128:LYS:O	10:AI:129:ARG:OXT	2.38	0.42
12:AK:43:TRP:HA	12:AK:69:CYS:SG	2.59	0.42
12:AK:47:GLY:HA2	12:AK:51:PHE:O	2.19	0.42
14:AM:79:LEU:HD23	14:AM:79:LEU:H	1.84	0.42
18:AQ:60:ILE:CG2	18:AQ:72:TRP:HB3	2.49	0.42
18:AQ:65:PRO:HA	18:AQ:71:SER:HA	2.02	0.42
20:AS:79:TYR:CE2	20:AS:81:GLY:HA2	2.53	0.42
22:B0:320:A:N3	22:B0:323:C:C5	2.88	0.42
22:B0:586:A:H5''	28:BC:78:TRP:HA	2.01	0.42
22:B0:877:A:H61	22:B0:900:A:H61	1.67	0.42
22:B0:924:G:H4'	45:BU:24:ARG:HD3	2.02	0.42
22:B0:928:A:HO2'	22:B0:929:U:P	2.43	0.42
22:B0:1351:C:H2'	22:B0:1352:U:C6	2.55	0.42
22:B0:1496:A:N6	26:BA:194:VAL:HG22	2.33	0.42
22:B0:1592:U:H2'	22:B0:1594:U:OP1	2.19	0.42
22:B0:1681:G:H8	22:B0:1681:G:O5'	2.03	0.42
22:B0:1832:C:H2'	22:B0:1833:C:C4'	2.49	0.42
22:B0:1999:C:O2'	22:B0:2000:C:H5'	2.19	0.42
22:B0:2033:A:HO2'	22:B0:2034:U:P	2.43	0.42
22:B0:2510:C:H2'	22:B0:2511:U:C6	2.55	0.42
22:B0:2847:U:H2'	22:B0:2848:G:O4'	2.19	0.42
22:B0:2863:C:H2'	22:B0:2864:G:C8	2.54	0.42
23:B9:91:C:O2'	23:B9:92:C:H5'	2.19	0.42
25:B3:17:MET:HB3	25:B3:53:GLU:OE1	2.19	0.42
25:B5:15:SER:O	25:B5:19:VAL:HG12	2.20	0.42
28:BC:97:ASN:HD22	28:BC:100:MET:HE3	1.83	0.42
28:BC:108:ILE:HG12	28:BC:181:ILE:CD1	2.48	0.42
29:BD:43:ILE:HD12	29:BD:43:ILE:N	2.24	0.42
30:BE:16:VAL:CG1	30:BE:25:ILE:HG12	2.50	0.42
30:BE:86:LEU:O	30:BE:130:ILE:HG12	2.19	0.42
32:BG:27:LEU:HA	32:BG:30:GLN:OE1	2.20	0.42
34:BI:51:LYS:O	34:BI:52:VAL:C	2.58	0.42
35:BJ:118:THR:OG1	35:BJ:120:VAL:HG12	2.19	0.42
36:BK:5:LYS:HG3	36:BK:95:LEU:HD21	2.02	0.42
39:BN:73:PHE:O	39:BN:74:GLN:HB2	2.20	0.42
39:BN:91:VAL:O	39:BN:92:ARG:NE	2.52	0.42
41:BQ:78:GLU:CG	41:BQ:79:GLY:H	2.24	0.42
42:BR:29:THR:O	42:BR:30:ILE:HD13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BU:45:HIS:CE1	45:BU:56:HIS:H	2.38	0.42
1:AA:327:A:H3'	1:AA:328:C:H5''	2.02	0.42
1:AA:508:U:H4'	1:AA:509:A:O5'	2.20	0.42
1:AA:559:A:H4'	1:AA:560:A:O5'	2.20	0.42
1:AA:617:G:H4'	17:AP:14:ARG:CZ	2.50	0.42
1:AA:709:U:H2'	1:AA:710:G:H8	1.85	0.42
1:AA:1322:C:C4'	1:AA:1323:G:OP1	2.67	0.42
1:AA:1367:C:O5'	10:AI:115:VAL:HG11	2.19	0.42
1:AA:1386:G:C4	10:AI:128:LYS:HE2	2.55	0.42
2:AV:18:G:H5''	2:AV:60:C:O2	2.20	0.42
2:AV:22:G:O2'	2:AV:23:A:H5'	2.20	0.42
2:AW:63:C:H2'	2:AW:64:A:H8	1.85	0.42
4:AC:58:ARG:HG2	4:AC:63:ILE:HG12	2.01	0.42
4:AC:153:SER:CB	4:AC:164:THR:HG22	2.50	0.42
6:AE:20:VAL:HG21	6:AE:33:THR:HG23	2.01	0.42
6:AE:74:ALA:O	6:AE:81:GLN:NE2	2.52	0.42
6:AE:132:PRO:HA	6:AE:135:VAL:HG22	2.02	0.42
8:AG:79:VAL:HB	8:AG:84:TYR:HD2	1.85	0.42
17:AP:57:ILE:O	17:AP:61:VAL:HG23	2.20	0.42
18:AQ:31:PRO:C	18:AQ:32:ILE:HD12	2.40	0.42
20:AS:51:HIS:HB2	20:AS:56:HIS:CE1	2.55	0.42
22:B0:128:C:N3	22:B0:129:C:N4	2.68	0.42
22:B0:426:C:H2'	22:B0:427:U:C6	2.55	0.42
22:B0:493:G:H21	41:BQ:7:HIS:CD2	2.36	0.42
22:B0:603:A:C6	22:B0:626:A:H4'	2.55	0.42
22:B0:667:U:H5	35:BJ:48:ARG:NH1	2.18	0.42
22:B0:751:A:N6	22:B0:789:A:N7	2.67	0.42
22:B0:961:C:P	22:B0:2496:C:C6	3.13	0.42
22:B0:1112:G:H2'	22:B0:1113:U:H6	1.84	0.42
22:B0:1212:G:N2	22:B0:1236:G:H2'	2.35	0.42
22:B0:1250:G:H5''	40:BO:5:ARG:HH12	1.84	0.42
22:B0:1252:G:H22	40:BO:36:GLN:NE2	2.17	0.42
22:B0:1402:U:H2'	22:B0:1403:A:C8	2.55	0.42
22:B0:1418:G:O6	26:BA:101:ARG:CG	2.68	0.42
22:B0:1490:C:H4'	26:BA:161:VAL:C	2.40	0.42
22:B0:1579:A:C5	26:BA:66:PHE:C	2.87	0.42
22:B0:1680:U:H3'	22:B0:1681:G:C8	2.54	0.42
22:B0:1761:C:N4	22:B0:1762:A:N3	2.68	0.42
22:B0:1896:G:H2'	22:B0:1897:G:H8	1.84	0.42
22:B0:2044:C:H2'	22:B0:2045:C:C6	2.55	0.42
22:B0:2059:A:O2'	22:B0:2060:A:OP1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2158:A:O3'	22:B0:2159:G:H4'	2.20	0.42
22:B0:2262:U:C5	45:BU:12:GLY:HA2	2.55	0.42
22:B0:2562:U:OP1	34:BI:40:LYS:HD3	2.20	0.42
23:B9:95:U:H2'	23:B9:96:G:C8	2.55	0.42
24:B2:184:LEU:HA	24:B2:187:ASN:ND2	2.35	0.42
26:BA:243:PRO:HA	26:BA:256:THR:HG23	2.02	0.42
27:BB:4:LEU:HB3	27:BB:101:PHE:HE2	1.85	0.42
27:BB:80:TRP:CZ3	27:BB:84:LEU:HB3	2.55	0.42
28:BC:79:ARG:HD2	28:BC:79:ARG:C	2.40	0.42
29:BD:70:ARG:HB3	29:BD:70:ARG:NH1	2.34	0.42
29:BD:149:ARG:HH11	29:BD:151:LEU:H	1.68	0.42
33:BH:139:VAL:O	33:BH:140:LEU:HD13	2.19	0.42
35:BJ:81:ASP:O	35:BJ:83:ALA:N	2.53	0.42
36:BK:50:ARG:HD2	36:BK:50:ARG:O	2.19	0.42
37:BL:41:ALA:HA	37:BL:44:LEU:HB2	2.02	0.42
38:BM:16:ARG:HH11	38:BM:16:ARG:HG2	1.85	0.42
39:BN:8:GLU:HB2	39:BN:56:SER:HB2	2.02	0.42
40:BO:52:ARG:NE	40:BO:52:ARG:HA	2.34	0.42
1:AA:6:G:N3	1:AA:6:G:C2'	2.83	0.41
1:AA:154:U:H2'	1:AA:155:A:C8	2.55	0.41
1:AA:243:A:O2'	1:AA:244:U:C5'	2.68	0.41
1:AA:535:A:H5''	1:AA:536:C:OP2	2.20	0.41
1:AA:797:C:H2'	1:AA:798:U:C6	2.55	0.41
1:AA:815:A:N7	1:AA:1510:C:C4'	2.83	0.41
1:AA:939:G:N2	1:AA:1343:G:N1	2.68	0.41
1:AA:966:G:H2'	1:AA:967:C:C6	2.55	0.41
1:AA:979:C:C5'	20:AS:3:SER:HB2	2.49	0.41
1:AA:1221:G:H3'	20:AS:2:ARG:N	2.35	0.41
1:AA:1256:A:O2'	1:AA:1257:A:O5'	2.38	0.41
1:AA:1277:C:O2'	1:AA:1278:G:H5'	2.20	0.41
1:AA:1452:C:H5'	1:AA:1453:G:C4	2.55	0.41
1:AA:1502:A:OP2	1:AA:1503:A:OP2	2.38	0.41
2:AU:38:A:C5	2:AU:39:U:O2	2.73	0.41
2:AW:60:C:C5'	2:AW:61:C:OP2	2.68	0.41
6:AE:60:GLN:NE2	6:AE:63:MET:HE1	2.35	0.41
7:AF:18:VAL:C	7:AF:20:GLY:H	2.24	0.41
10:AI:17:ARG:HH21	10:AI:65:THR:HG21	1.84	0.41
11:AJ:17:LEU:HD13	11:AJ:96:VAL:HG22	2.02	0.41
12:AK:46:ALA:HB3	12:AK:56:LYS:HB2	2.01	0.41
20:AS:14:LEU:C	20:AS:14:LEU:HD12	2.40	0.41
22:B0:301:G:O6	22:B0:310:A:O3'	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:323:C:O5'	22:B0:324:A:OP1	2.38	0.41
22:B0:371:A:O2'	22:B0:372:G:H5''	2.19	0.41
22:B0:406:G:O2'	22:B0:407:G:H5'	2.20	0.41
22:B0:746:U:OP1	41:BQ:90:LYS:HE3	2.20	0.41
22:B0:891:G:N3	22:B0:891:G:C3'	2.79	0.41
22:B0:1201:U:H2'	35:BJ:14:LYS:CD	2.50	0.41
22:B0:1202:G:OP1	35:BJ:12:SER:HB3	2.19	0.41
22:B0:1322:A:C2	22:B0:1334:G:H5'	2.54	0.41
22:B0:1356:G:H2'	22:B0:1357:C:C6	2.55	0.41
22:B0:1381:G:C2'	22:B0:1382:G:H5'	2.50	0.41
22:B0:1410:G:H4'	22:B0:1411:U:OP1	2.19	0.41
22:B0:1529:G:H2'	22:B0:1530:C:C6	2.55	0.41
22:B0:1677:A:H2	22:B0:1991:U:H1'	1.84	0.41
22:B0:1707:G:O2'	22:B0:1708:C:H5'	2.19	0.41
22:B0:1995:U:O2	27:BB:137:SER:HA	2.19	0.41
22:B0:2040:G:O2'	22:B0:2041:U:H5'	2.19	0.41
22:B0:2110:G:O2'	22:B0:2111:U:O4'	2.38	0.41
22:B0:2117:A:H2'	22:B0:2118:U:C2	2.55	0.41
22:B0:2329:U:H2'	22:B0:2330:G:C8	2.55	0.41
22:B0:2353:G:H2'	22:B0:2354:C:C6	2.55	0.41
22:B0:2581:G:HO2'	22:B0:2582:G:P	2.43	0.41
22:B0:2678:C:O2'	27:BB:165:MET:HG2	2.20	0.41
23:B9:55:U:H2'	23:B9:56:G:O4'	2.20	0.41
24:B2:45:VAL:CG1	24:B2:211:VAL:HG13	2.46	0.41
26:BA:159:THR:OG1	26:BA:160:TYR:N	2.53	0.41
27:BB:122:VAL:C	27:BB:124:ARG:N	2.72	0.41
28:BC:29:HIS:HA	35:BJ:17:LYS:NZ	2.35	0.41
29:BD:8:LYS:HD2	29:BD:8:LYS:O	2.20	0.41
32:BG:75:ALA:C	32:BG:77:VAL:H	2.23	0.41
35:BJ:108:ALA:H	35:BJ:126:ARG:HG2	1.84	0.41
36:BK:35:ALA:CB	36:BK:128:THR:HG22	2.50	0.41
36:BK:40:ARG:HB3	36:BK:93:VAL:CG2	2.47	0.41
37:BL:112:TYR:O	37:BL:113:ILE:C	2.59	0.41
39:BN:13:LYS:H	39:BN:13:LYS:CD	2.31	0.41
40:BO:58:GLN:OE1	40:BO:59:LEU:N	2.53	0.41
40:BO:82:LEU:HD13	40:BO:82:LEU:C	2.41	0.41
40:BO:85:ALA:HB3	40:BO:111:LYS:HZ1	1.85	0.41
42:BR:42:GLU:C	42:BR:44:LYS:N	2.70	0.41
43:BS:64:ILE:N	43:BS:64:ILE:CD1	2.83	0.41
45:BU:37:VAL:CG2	45:BU:38:ARG:N	2.83	0.41
46:BW:28:LEU:HD13	46:BW:43:LEU:CD2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BX:40:THR:HB	47:BX:43:ILE:CG1	2.50	0.41
48:BZ:32:THR:OG1	48:BZ:33:SER:N	2.53	0.41
1:AA:699:C:O2'	1:AA:704:A:H1'	2.20	0.41
1:AA:725:G:H2'	1:AA:726:C:C6	2.54	0.41
1:AA:838:G:C2'	1:AA:839:U:H5''	2.49	0.41
1:AA:872:A:C5'	1:AA:873:A:OP1	2.68	0.41
1:AA:944:G:H2'	1:AA:1339:A:H61	1.84	0.41
1:AA:1306:A:N6	1:AA:1331:G:O2'	2.53	0.41
1:AA:1464:U:H2'	1:AA:1465:A:H8	1.84	0.41
3:AB:41:ASN:CB	3:AB:44:LYS:HD3	2.49	0.41
3:AB:102:ASN:OD1	3:AB:105:THR:HB	2.20	0.41
4:AC:28:PHE:O	4:AC:32:LEU:HG	2.20	0.41
7:AF:14:GLN:HB3	7:AF:18:VAL:CG2	2.51	0.41
7:AF:20:GLY:O	7:AF:23:GLU:HB3	2.20	0.41
10:AI:49:GLN:N	10:AI:50:PRO:CD	2.82	0.41
17:AP:8:ARG:HH11	17:AP:8:ARG:HG3	1.85	0.41
17:AP:21:VAL:HG11	17:AP:60:TRP:CE3	2.56	0.41
20:AS:35:ARG:HH22	20:AS:52:ASN:HA	1.85	0.41
22:B0:211:C:H2'	22:B0:212:G:H8	1.85	0.41
22:B0:221:A:N1	22:B0:265:A:O2'	2.53	0.41
22:B0:431:U:H2'	22:B0:432:A:C5'	2.50	0.41
22:B0:634:C:H2'	22:B0:635:C:C6	2.55	0.41
22:B0:777:G:H2'	22:B0:778:G:O4'	2.20	0.41
22:B0:787:C:H3'	22:B0:791:C:N4	2.35	0.41
22:B0:799:G:C4	28:BC:56:GLY:CA	3.03	0.41
22:B0:821:A:O5'	22:B0:836:G:N2	2.53	0.41
22:B0:947:A:H2'	22:B0:948:C:H6	1.83	0.41
22:B0:1416:G:N1	22:B0:1417:U:O4	2.53	0.41
22:B0:1571:A:H2'	22:B0:1572:A:H8	1.84	0.41
22:B0:1802:A:O2'	22:B0:1803:A:H5'	2.20	0.41
22:B0:2031:A:N6	22:B0:2455:G:O2'	2.53	0.41
22:B0:2075:U:O4	22:B0:2242:G:O6	2.38	0.41
22:B0:2127:G:H3'	22:B0:2166:U:O5'	2.19	0.41
22:B0:2366:A:C5'	45:BU:65:LYS:HE3	2.50	0.41
22:B0:2433:A:O2'	22:B0:2434:A:OP1	2.33	0.41
22:B0:2497:A:C2'	22:B0:2498:C:OP2	2.68	0.41
22:B0:2752:C:H2'	22:B0:2753:A:O4'	2.20	0.41
22:B0:2812:G:H2'	22:B0:2813:A:H8	1.83	0.41
24:B2:26:ILE:O	24:B2:29:LEU:HB3	2.19	0.41
24:B2:147:ASN:ND2	24:B2:150:GLU:HB2	2.30	0.41
26:BA:104:LEU:HD13	26:BA:104:LEU:C	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:BB:96:ILE:HG22	27:BB:97:SER:N	2.36	0.41
28:BC:88:ARG:HB2	35:BJ:30:THR:CG2	2.50	0.41
28:BC:176:ASP:C	28:BC:178:VAL:N	2.73	0.41
31:BF:97:ARG:HH11	31:BF:97:ARG:HG3	1.84	0.41
32:BG:96:LYS:HD2	32:BG:96:LYS:N	2.30	0.41
33:BH:32:LEU:H	33:BH:35:ARG:HD2	1.85	0.41
33:BH:93:ILE:O	33:BH:93:ILE:HG12	2.20	0.41
34:BI:68:GLY:HA2	34:BI:77:ILE:O	2.21	0.41
36:BK:124:LEU:H	36:BK:124:LEU:CD2	2.29	0.41
36:BK:125:PRO:O	36:BK:126:ILE:HB	2.20	0.41
39:BN:88:ARG:HG2	39:BN:89:GLY:H	1.83	0.41
40:BO:110:GLU:HG2	40:BO:110:GLU:H	1.69	0.41
41:BQ:18:ARG:HB2	41:BQ:76:VAL:HG21	2.03	0.41
42:BR:14:PRO:HA	42:BR:32:LEU:HG	2.01	0.41
49:B1:48:TYR:N	49:B1:48:TYR:CD1	2.88	0.41
1:AA:91:U:H2'	1:AA:92:U:C6	2.54	0.41
1:AA:223:A:H2'	1:AA:224:U:C6	2.55	0.41
1:AA:272:C:H2'	1:AA:273:U:C6	2.55	0.41
1:AA:575:G:C6	1:AA:821:G:N7	2.88	0.41
1:AA:692:U:H2'	1:AA:694:A:OP2	2.20	0.41
1:AA:701:U:H5''	1:AA:703:G:H1'	2.02	0.41
1:AA:818:G:H3'	1:AA:819:A:H5'	2.02	0.41
1:AA:820:U:H6	1:AA:820:U:O5'	2.04	0.41
1:AA:895:G:H2'	1:AA:896:C:C6	2.56	0.41
1:AA:942:G:H2'	1:AA:943:U:H6	1.85	0.41
1:AA:1253:G:N1	1:AA:1285:A:N6	2.68	0.41
1:AA:1271:A:H4'	1:AA:1314:C:H5'	2.03	0.41
2:AU:74:C:C5'	22:B0:2556:C:C2	3.03	0.41
2:AV:67:A:H2'	2:AV:68:U:C6	2.55	0.41
2:AW:58:A:O2'	2:AW:60:C:H5	2.00	0.41
3:AB:185:ILE:N	3:AB:185:ILE:CD1	2.81	0.41
3:AB:216:VAL:HG13	3:AB:217:ALA:N	2.35	0.41
4:AC:39:ARG:HG2	4:AC:54:ILE:HG13	2.02	0.41
4:AC:137:VAL:HG22	4:AC:150:VAL:HG23	2.02	0.41
5:AD:71:PHE:CE1	5:AD:93:LEU:HD21	2.54	0.41
5:AD:81:LEU:N	5:AD:81:LEU:HD22	2.36	0.41
5:AD:104:MET:CE	5:AD:179:GLY:HA3	2.51	0.41
7:AF:18:VAL:HG13	7:AF:21:MET:CE	2.50	0.41
10:AI:19:PHE:HB3	10:AI:21:LYS:NZ	2.36	0.41
10:AI:53:LEU:HD12	10:AI:53:LEU:N	2.35	0.41
10:AI:56:MET:HE3	10:AI:60:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AK:30:ILE:HD13	12:AK:31:VAL:N	2.35	0.41
16:AO:11:VAL:HG13	16:AO:26:VAL:CG1	2.51	0.41
16:AO:81:ILE:H	16:AO:81:ILE:CD1	2.33	0.41
20:AS:27:LYS:HG2	20:AS:28:LYS:N	2.35	0.41
22:B0:71:A:N6	22:B0:114:U:H3	2.18	0.41
22:B0:255:A:H2'	22:B0:256:A:O4'	2.21	0.41
22:B0:446:G:H2'	22:B0:447:A:OP2	2.20	0.41
22:B0:476:G:C4	22:B0:478:A:OP2	2.73	0.41
22:B0:586:A:H5''	28:BC:79:ARG:N	2.31	0.41
22:B0:628:G:H2'	22:B0:629:G:C8	2.55	0.41
22:B0:659:G:C1'	28:BC:98:LYS:HG3	2.49	0.41
22:B0:740:C:H42	22:B0:758:C:H1'	1.84	0.41
22:B0:803:U:OP2	28:BC:64:GLY:N	2.53	0.41
22:B0:878:A:H61	22:B0:899:A:H61	1.68	0.41
22:B0:942:G:H5'	35:BJ:40:SER:O	2.20	0.41
22:B0:959:A:N7	22:B0:2250:G:H1'	2.35	0.41
22:B0:978:G:H1	22:B0:985:C:H42	1.67	0.41
22:B0:997:G:H2'	22:B0:998:C:C6	2.55	0.41
22:B0:1005:C:C4	22:B0:1143:A:H1'	2.54	0.41
22:B0:1197:G:N2	40:BO:8:ILE:HD13	2.35	0.41
22:B0:1332:G:H21	22:B0:1610:A:H8	1.65	0.41
22:B0:1992:G:C4'	22:B0:1993:U:OP1	2.68	0.41
22:B0:2123:G:C5'	22:B0:2124:G:O5'	2.68	0.41
22:B0:2178:C:OP1	22:B0:2180:U:C2	2.73	0.41
22:B0:2520:C:C2	22:B0:2565:A:O2'	2.69	0.41
22:B0:2544:G:H2'	22:B0:2545:G:C8	2.56	0.41
22:B0:2894:U:C1'	33:BH:5:THR:HG1	2.33	0.41
23:B9:16:G:H2'	23:B9:17:C:O5'	2.20	0.41
23:B9:28:C:H1'	23:B9:59:A:N1	2.34	0.41
24:B2:104:LYS:HZ3	24:B2:126:LEU:HD22	1.84	0.41
25:B5:27:GLU:HG2	25:B5:28:GLU:N	2.35	0.41
26:BA:101:ARG:CZ	26:BA:101:ARG:HB2	2.50	0.41
28:BC:159:LEU:C	28:BC:161:ALA:H	2.23	0.41
29:BD:94:ARG:O	29:BD:96:TRP:N	2.53	0.41
33:BH:9:GLU:O	33:BH:13:ARG:CZ	2.68	0.41
33:BH:41:LYS:HD3	33:BH:43:GLU:N	2.27	0.41
33:BH:112:GLY:CA	33:BH:113:PRO:O	2.55	0.41
35:BJ:25:SER:O	35:BJ:26:GLY:O	2.38	0.41
35:BJ:81:ASP:OD2	35:BJ:116:VAL:HG12	2.20	0.41
35:BJ:103:ILE:H	35:BJ:103:ILE:HG12	1.69	0.41
37:BL:25:ALA:CA	37:BL:28:LEU:HD21	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BL:103:ARG:HH11	37:BL:103:ARG:HG2	1.85	0.41
40:BO:2:ARG:HH12	40:BO:3:VAL:HG12	1.83	0.41
40:BO:15:LYS:HA	40:BO:18:LYS:CE	2.47	0.41
40:BO:43:GLN:O	40:BO:44:TYR:CD2	2.73	0.41
43:BS:39:ASN:OD1	43:BS:49:PRO:HB3	2.20	0.41
45:BU:58:LEU:HB2	45:BU:81:ILE:CD1	2.49	0.41
49:B1:7:LYS:HD3	49:B1:7:LYS:H	1.84	0.41
1:AA:45:G:H1	1:AA:396:C:H42	1.68	0.41
1:AA:256:U:H2'	1:AA:257:G:C8	2.55	0.41
1:AA:271:C:H2'	1:AA:272:C:C6	2.55	0.41
1:AA:382:A:O2'	1:AA:383:A:H5'	2.21	0.41
1:AA:419:C:C4'	1:AA:540:G:N2	2.83	0.41
1:AA:490:C:H2'	1:AA:491:G:H8	1.85	0.41
1:AA:779:C:H2'	1:AA:780:A:O4'	2.19	0.41
1:AA:1064:G:N2	1:AA:1191:A:N7	2.68	0.41
1:AA:1238:A:N6	1:AA:1239:A:C2	2.89	0.41
1:AA:1401:G:C2'	1:AA:1402:C:H5'	2.49	0.41
1:AA:1453:G:C2'	1:AA:1454:G:H5'	2.50	0.41
2:AV:18:G:H1'	2:AV:57:G:N2	2.36	0.41
2:AV:55:U:O2	2:AV:55:U:C2'	2.69	0.41
2:AW:19:G:C1'	2:AW:57:G:H21	2.33	0.41
2:AW:28:C:H2'	2:AW:29:A:H8	1.85	0.41
3:AB:81:ASP:HB2	3:AB:233:GLU:HG2	2.02	0.41
4:AC:20:THR:HG23	4:AC:20:THR:O	2.20	0.41
5:AD:61:ARG:HH11	5:AD:61:ARG:HG2	1.86	0.41
7:AF:70:VAL:O	7:AF:70:VAL:HG22	2.20	0.41
10:AI:53:LEU:HD21	10:AI:100:ALA:HB2	2.03	0.41
12:AK:41:LEU:HB3	12:AK:76:TYR:CE2	2.55	0.41
16:AO:56:LEU:HD13	16:AO:56:LEU:O	2.20	0.41
22:B0:312:G:H4'	22:B0:331:C:N4	2.35	0.41
22:B0:366:C:H2'	22:B0:367:G:C8	2.56	0.41
22:B0:488:G:H22	41:BQ:9:HIS:CE1	2.38	0.41
22:B0:504:A:O5'	22:B0:511:U:H5''	2.21	0.41
22:B0:540:G:O2'	22:B0:541:C:H5'	2.20	0.41
22:B0:640:C:H2'	22:B0:641:U:O4'	2.19	0.41
22:B0:666:A:OP1	35:BJ:50:PHE:O	2.38	0.41
22:B0:1231:U:H2'	22:B0:1232:G:H8	1.85	0.41
22:B0:1282:U:H2'	22:B0:1283:G:C8	2.55	0.41
22:B0:1432:G:H2'	22:B0:1433:A:O4'	2.20	0.41
22:B0:1496:A:P	26:BA:191:LEU:H	2.43	0.41
22:B0:1578:U:OP1	26:BA:63:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1649:G:H2'	22:B0:1650:A:C8	2.55	0.41
22:B0:1690:A:H2'	22:B0:1691:C:O4'	2.19	0.41
22:B0:2136:G:O6	22:B0:2137:U:C5	2.73	0.41
22:B0:2138:G:O5'	22:B0:2139:U:OP1	2.38	0.41
22:B0:2152:G:P	22:B0:2153:C:N3	2.94	0.41
22:B0:2244:U:C4	22:B0:2245:U:O4	2.73	0.41
22:B0:2247:A:O2'	22:B0:2248:C:H5'	2.21	0.41
22:B0:2640:G:O3'	33:BH:79:GLY:HA2	2.20	0.41
22:B0:2678:C:OP2	27:BB:124:ARG:HB2	2.20	0.41
22:B0:2782:G:H2'	22:B0:2783:U:C6	2.56	0.41
22:B0:2896:U:H1'	33:BH:39:LYS:HG2	2.02	0.41
22:B0:2899:A:H61	33:BH:137:PRO:HD2	1.85	0.41
24:B2:150:GLU:HA	24:B2:153:LYS:CE	2.50	0.41
25:B3:3:THR:HB	25:B3:6:GLN:HG2	2.01	0.41
27:BB:38:LYS:HB3	27:BB:77:ARG:O	2.20	0.41
27:BB:122:VAL:HG12	27:BB:141:ARG:NH2	2.35	0.41
28:BC:73:ILE:C	28:BC:75:SER:H	2.24	0.41
28:BC:112:LEU:HD12	28:BC:112:LEU:N	2.35	0.41
30:BE:101:VAL:CG1	30:BE:113:ASP:HB3	2.48	0.41
32:BG:132:ALA:O	32:BG:133:ARG:NE	2.53	0.41
33:BH:109:LEU:HB2	33:BH:111:LYS:N	2.36	0.41
33:BH:122:LEU:HD13	33:BH:122:LEU:N	2.18	0.41
39:BN:28:LYS:O	39:BN:28:LYS:HG2	2.20	0.41
39:BN:49:ILE:HG22	39:BN:50:ARG:N	2.35	0.41
39:BN:54:LEU:O	39:BN:58:PHE:HB3	2.20	0.41
39:BN:65:ASN:H	39:BN:71:ARG:CB	2.33	0.41
40:BO:9:ALA:O	40:BO:10:ARG:CB	2.68	0.41
40:BO:13:HIS:O	40:BO:16:ILE:HG22	2.20	0.41
40:BO:16:ILE:O	40:BO:18:LYS:N	2.51	0.41
40:BO:58:GLN:O	40:BO:62:ALA:HB3	2.20	0.41
41:BQ:27:LYS:HA	41:BQ:70:LYS:HB3	2.01	0.41
41:BQ:51:LEU:HD13	41:BQ:51:LEU:C	2.39	0.41
42:BR:36:LYS:C	42:BR:38:ALA:H	2.23	0.41
42:BR:39:THR:OG1	42:BR:40:LYS:N	2.54	0.41
44:BT:57:TYR:HA	44:BT:74:ALA:HB3	2.02	0.41
45:BU:13:ARG:NE	45:BU:13:ARG:N	2.66	0.41
45:BU:77:LYS:HB3	45:BU:77:LYS:HZ3	1.83	0.41
1:AA:163:C:H2'	1:AA:164:G:C8	2.55	0.41
1:AA:250:A:H1'	1:AA:252:U:C4	2.55	0.41
1:AA:287:U:H2'	1:AA:288:A:C8	2.56	0.41
1:AA:418:C:H5''	1:AA:540:G:H3'	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:419:C:P	1:AA:541:G:O4'	2.72	0.41
1:AA:807:A:H2'	1:AA:808:C:C6	2.55	0.41
1:AA:821:G:H2'	1:AA:822:U:C6	2.55	0.41
1:AA:840:C:O5'	1:AA:840:C:H6	2.02	0.41
1:AA:955:U:H2'	1:AA:956:U:O4'	2.20	0.41
1:AA:1096:C:O2'	1:AA:1168:U:H1'	2.21	0.41
1:AA:1126:U:O4	1:AA:1145:A:N1	2.54	0.41
1:AA:1210:C:H4'	1:AA:1214:C:H42	1.86	0.41
4:AC:24:ASN:HD22	4:AC:27:GLU:C	2.24	0.41
4:AC:93:ILE:HD12	4:AC:93:ILE:H	1.86	0.41
4:AC:152:VAL:HG13	4:AC:195:ILE:CG1	2.50	0.41
5:AD:13:ARG:HG3	5:AD:55:ARG:HH21	1.85	0.41
5:AD:100:VAL:HG12	5:AD:104:MET:SD	2.61	0.41
9:AH:72:GLU:OE1	9:AH:72:GLU:N	2.43	0.41
10:AI:20:ILE:HD13	10:AI:86:LEU:HD23	2.02	0.41
12:AK:120:CYS:O	12:AK:121:ARG:O	2.37	0.41
19:AR:11:ARG:HD3	19:AR:46:THR:CG2	2.48	0.41
22:B0:233:A:H61	22:B0:428:A:H61	1.69	0.41
22:B0:292:U:C4	22:B0:348:A:N6	2.84	0.41
22:B0:497:A:H2'	22:B0:498:G:C8	2.55	0.41
22:B0:589:U:C2'	28:BC:48:THR:HB	2.47	0.41
22:B0:620:G:O2'	22:B0:621:A:P	2.78	0.41
22:B0:623:C:H2'	22:B0:624:C:C6	2.55	0.41
22:B0:733:G:H5''	22:B0:761:A:H62	1.75	0.41
22:B0:799:G:H3'	28:BC:57:LYS:N	2.35	0.41
22:B0:800:A:C4'	22:B0:801:G:H5''	2.51	0.41
22:B0:1126:A:N3	22:B0:1126:A:H2'	2.36	0.41
22:B0:1313:U:O2'	22:B0:1332:G:H4'	2.20	0.41
22:B0:1365:A:H2'	22:B0:1366:A:C8	2.56	0.41
22:B0:1421:G:N3	26:BA:148:GLY:CA	2.77	0.41
22:B0:1582:C:H5	26:BA:73:ILE:CD1	2.34	0.41
22:B0:1582:C:C6	26:BA:96:LYS:HD2	2.56	0.41
22:B0:1991:U:H2'	22:B0:1992:G:H5'	2.02	0.41
22:B0:2075:U:H2'	22:B0:2076:U:O5'	2.20	0.41
22:B0:2127:G:N9	22:B0:2166:U:H5'	2.35	0.41
22:B0:2447:G:O2'	22:B0:2448:A:H3'	2.19	0.41
22:B0:2480:C:C2'	22:B0:2481:G:H5'	2.51	0.41
22:B0:2544:G:H2'	22:B0:2545:G:H8	1.84	0.41
22:B0:2832:U:HO2'	22:B0:2833:U:P	2.42	0.41
22:B0:2836:U:H2'	22:B0:2837:A:H8	1.85	0.41
22:B0:2899:A:H61	33:BH:137:PRO:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B3:43:GLY:C	25:B3:45:VAL:H	2.24	0.41
25:B3:76:THR:C	25:B3:78:LEU:H	2.24	0.41
26:BA:80:LEU:HD11	26:BA:89:ASN:CB	2.50	0.41
26:BA:154:ALA:HB1	26:BA:159:THR:HG23	1.99	0.41
26:BA:250:GLN:O	26:BA:251:THR:HB	2.20	0.41
28:BC:7:ASP:CG	28:BC:8:ALA:N	2.74	0.41
28:BC:36:ALA:HB2	35:BJ:18:ARG:HD3	2.02	0.41
29:BD:29:ARG:HG2	29:BD:30:VAL:N	2.34	0.41
29:BD:42:ALA:O	29:BD:43:ILE:C	2.59	0.41
31:BF:29:PHE:O	31:BF:32:PRO:HD2	2.21	0.41
32:BG:99:LYS:HD2	32:BG:99:LYS:C	2.41	0.41
32:BG:116:MET:HB3	32:BG:124:MET:HE1	2.03	0.41
33:BH:39:LYS:O	33:BH:40:HIS:CD2	2.74	0.41
34:BI:41:ILE:N	34:BI:41:ILE:CD1	2.81	0.41
34:BI:112:PHE:CG	34:BI:115:ILE:HD12	2.55	0.41
35:BJ:54:GLN:NE2	35:BJ:58:TYR:H	2.19	0.41
36:BK:80:VAL:O	36:BK:80:VAL:CG1	2.67	0.41
37:BL:53:THR:HA	37:BL:56:LYS:HB2	2.03	0.41
37:BL:113:ILE:H	37:BL:113:ILE:CD1	2.23	0.41
39:BN:60:VAL:O	39:BN:61:ARG:HD3	2.20	0.41
42:BR:91:GLN:HE21	42:BR:91:GLN:HA	1.85	0.41
43:BS:93:ARG:HH11	43:BS:93:ARG:HG3	1.85	0.41
1:AA:583:A:H2'	1:AA:584:G:O4'	2.21	0.41
1:AA:625:U:H2'	1:AA:626:G:C8	2.56	0.41
1:AA:992:U:H4'	1:AA:993:G:C5'	2.51	0.41
1:AA:1033:G:H2'	1:AA:1034:G:O4'	2.21	0.41
1:AA:1298:U:O2'	1:AA:1335:U:C2	2.73	0.41
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.85	0.41
1:AA:1509:C:O2'	1:AA:1510:C:H5'	2.21	0.41
2:AU:18:G:H1'	2:AU:57:G:H22	1.84	0.41
2:AV:63:C:H2'	2:AV:64:A:H8	1.85	0.41
4:AC:19:SER:OG	4:AC:56:ILE:HB	2.20	0.41
4:AC:108:PRO:HB3	4:AC:114:LEU:CD1	2.50	0.41
4:AC:130:ARG:CD	6:AE:53:ARG:HD3	2.50	0.41
5:AD:58:GLN:NE2	5:AD:58:GLN:HA	2.36	0.41
5:AD:97:LEU:HB2	5:AD:134:TYR:HB3	2.02	0.41
5:AD:122:ILE:O	5:AD:128:VAL:HG13	2.21	0.41
7:AF:51:ILE:HD12	7:AF:52:ASN:HB2	2.02	0.41
8:AG:108:ARG:HG2	8:AG:118:ARG:NH2	2.36	0.41
20:AS:28:LYS:HB3	20:AS:29:PRO:CD	2.41	0.41
22:B0:44:A:H61	22:B0:433:C:H42	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:110:G:O2'	22:B0:111:A:H5'	2.20	0.41
22:B0:396:G:H2'	22:B0:397:U:C6	2.55	0.41
22:B0:481:G:O2'	22:B0:506:G:N3	2.45	0.41
22:B0:658:U:C2'	28:BC:98:LYS:HE2	2.51	0.41
22:B0:833:A:H4'	35:BJ:50:PHE:CZ	2.56	0.41
22:B0:870:U:C1'	36:BK:8:LYS:NZ	2.84	0.41
22:B0:906:U:H2'	22:B0:907:G:C4'	2.50	0.41
22:B0:969:G:O3'	22:B0:984:A:O2'	2.39	0.41
22:B0:1266:G:C2'	22:B0:1267:U:OP2	2.68	0.41
22:B0:1342:A:C4	22:B0:1397:U:O4'	2.74	0.41
22:B0:1412:G:H2'	22:B0:1413:U:H6	1.85	0.41
22:B0:1578:U:P	26:BA:101:ARG:HD2	2.58	0.41
22:B0:1579:A:N7	26:BA:65:ASP:O	2.53	0.41
22:B0:1605:C:H2'	22:B0:1606:C:O4'	2.19	0.41
22:B0:1747:U:H2'	22:B0:1748:C:C6	2.55	0.41
22:B0:1966:A:N3	22:B0:2593:U:H4'	2.34	0.41
22:B0:2115:G:N2	22:B0:2168:G:OP1	2.49	0.41
22:B0:2123:G:N3	22:B0:2123:G:C2'	2.83	0.41
22:B0:2126:A:N3	22:B0:2167:U:H5'	2.36	0.41
22:B0:2134:A:N7	22:B0:2135:A:O2'	2.54	0.41
22:B0:2243:U:C4'	22:B0:2244:U:OP1	2.69	0.41
22:B0:2360:G:H2'	22:B0:2361:G:C8	2.55	0.41
22:B0:2478:A:O2'	22:B0:2528:U:O3'	2.38	0.41
22:B0:2837:A:H2'	22:B0:2838:G:C8	2.55	0.41
22:B0:2894:U:H2'	33:BH:9:GLU:OE2	2.21	0.41
23:B9:89:U:O5'	23:B9:89:U:H6	2.03	0.41
24:B2:95:GLY:HA3	24:B2:99:LEU:CD2	2.51	0.41
26:BA:57:HIS:CE1	26:BA:58:LYS:HZ3	2.38	0.41
26:BA:71:ASP:CG	26:BA:72:GLY:N	2.73	0.41
29:BD:105:ILE:CD1	29:BD:138:PRO:HG3	2.49	0.41
32:BG:96:LYS:H	32:BG:96:LYS:CD	2.30	0.41
33:BH:104:ALA:O	33:BH:106:LYS:N	2.53	0.41
37:BL:94:TYR:H	37:BL:94:TYR:HD1	1.68	0.41
37:BL:102:PHE:CA	37:BL:109:PRO:HA	2.50	0.41
39:BN:46:VAL:O	39:BN:47:ILE:HD13	2.21	0.41
40:BO:40:LYS:HE2	40:BO:44:TYR:CB	2.50	0.41
40:BO:92:LYS:HA	40:BO:92:LYS:HE3	2.02	0.41
44:BT:73:LYS:HG3	44:BT:94:ALA:HB2	2.03	0.41
45:BU:67:LYS:H	45:BU:67:LYS:HD3	1.86	0.41
46:BW:20:ASN:O	46:BW:24:GLU:HB2	2.20	0.41
47:BX:47:ILE:CG2	47:BX:56:VAL:HG11	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BZ:29:VAL:HA	48:BZ:47:TYR:OH	2.20	0.41
1:AA:19:A:H2'	1:AA:20:U:C6	2.55	0.41
1:AA:329:A:H2'	1:AA:329:A:N3	2.36	0.41
1:AA:362:G:H5''	13:AL:30:ARG:HD3	2.02	0.41
1:AA:647:C:H5''	18:AQ:82:VAL:HG11	2.03	0.41
1:AA:708:C:H2'	1:AA:709:U:C6	2.55	0.41
1:AA:1065:U:H2'	1:AA:1066:C:OP2	2.21	0.41
1:AA:1483:A:O2'	22:B0:1948:G:H1'	2.19	0.41
1:AA:1526:G:H2'	1:AA:1527:U:C6	2.56	0.41
2:AU:23:A:H2'	2:AU:24:G:C8	2.55	0.41
2:AV:29:A:O2'	2:AV:30:G:H5'	2.20	0.41
3:AB:159:ALA:C	3:AB:160:LEU:HD12	2.41	0.41
4:AC:120:THR:HG23	4:AC:121:SER:N	2.36	0.41
4:AC:140:ALA:HB3	4:AC:148:ILE:HG13	2.01	0.41
5:AD:162:GLU:C	5:AD:164:ARG:H	2.23	0.41
8:AG:92:PRO:HA	8:AG:95:ARG:HG2	2.01	0.41
10:AI:105:ARG:O	10:AI:106:ASP:HB2	2.21	0.41
11:AJ:40:ILE:HD11	11:AJ:73:LEU:HD22	2.02	0.41
12:AK:28:ASN:HD21	12:AK:45:THR:HG22	1.84	0.41
15:AN:58:ARG:HG2	15:AN:58:ARG:HH11	1.85	0.41
17:AP:56:ARG:NH1	17:AP:60:TRP:NE1	2.69	0.41
20:AS:30:LEU:HG	20:AS:31:ARG:N	2.35	0.41
21:AT:47:GLN:O	21:AT:50:PHE:HB3	2.21	0.41
22:B0:224:U:O2'	22:B0:225:C:H5'	2.21	0.41
22:B0:402:A:O2'	22:B0:403:U:H5'	2.20	0.41
22:B0:588:U:H5'	28:BC:43:THR:CG2	2.50	0.41
22:B0:655:A:H4'	22:B0:656:G:C5'	2.49	0.41
22:B0:801:G:P	28:BC:57:LYS:HD3	2.61	0.41
22:B0:802:A:H4'	28:BC:54:GLY:O	2.20	0.41
22:B0:1197:G:N2	22:B0:1198:U:H1'	2.35	0.41
22:B0:1355:G:H2'	22:B0:1356:G:H8	1.86	0.41
22:B0:1410:G:H2'	22:B0:1411:U:C5	2.55	0.41
22:B0:1578:U:O2'	26:BA:65:ASP:O	2.26	0.41
22:B0:1662:U:O4	22:B0:1992:G:H3'	2.21	0.41
22:B0:1775:U:H2'	22:B0:1776:G:H5'	2.03	0.41
22:B0:1917:U:H2'	22:B0:1918:A:H8	1.86	0.41
22:B0:2055:C:O2	22:B0:2055:C:C2'	2.66	0.41
22:B0:2153:C:O2	22:B0:2153:C:H2'	2.21	0.41
22:B0:2558:C:H2'	22:B0:2559:C:H5'	2.02	0.41
22:B0:2595:G:H1'	22:B0:2597:G:N7	2.35	0.41
22:B0:2730:C:N3	27:BB:126:ASN:ND2	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2757:A:N3	22:B0:2757:A:H2'	2.35	0.41
22:B0:2894:U:OP2	33:BH:10:THR:N	2.54	0.41
24:B2:22:ILE:O	24:B2:26:ILE:HD13	2.21	0.41
24:B2:45:VAL:HG21	24:B2:195:LEU:HD21	2.02	0.41
24:B2:174:ILE:HD11	24:B2:184:LEU:O	2.21	0.41
25:B3:66:VAL:HG22	25:B3:70:LYS:HE3	2.03	0.41
25:B3:86:LEU:C	25:B3:91:PRO:HD2	2.40	0.41
25:B5:107:LYS:HE3	25:B5:117:VAL:O	2.21	0.41
26:BA:64:VAL:CG2	26:BA:150:GLY:HA2	2.51	0.41
26:BA:77:VAL:HA	26:BA:92:LEU:O	2.21	0.41
26:BA:154:ALA:HB2	26:BA:176:ARG:HD3	2.02	0.41
27:BB:164:GLN:HG3	27:BB:165:MET:N	2.36	0.41
28:BC:117:ARG:HH11	28:BC:185:LYS:HD2	1.85	0.41
29:BD:90:LEU:HD22	29:BD:90:LEU:C	2.41	0.41
32:BG:29:GLN:HA	32:BG:29:GLN:NE2	2.36	0.41
32:BG:113:ALA:C	32:BG:115:ASP:H	2.24	0.41
33:BH:26:GLY:C	33:BH:28:LEU:H	2.24	0.41
33:BH:96:ARG:HB3	33:BH:97:PRO:CA	2.51	0.41
33:BH:109:LEU:HD22	33:BH:109:LEU:H	1.86	0.41
34:BI:118:LEU:HD22	34:BI:118:LEU:N	2.35	0.41
38:BM:25:ARG:NH2	38:BM:40:ILE:HG21	2.35	0.41
39:BN:17:PRO:O	39:BN:18:SER:C	2.58	0.41
40:BO:4:LYS:HZ3	40:BO:5:ARG:HB3	1.85	0.41
40:BO:53:LYS:HE3	40:BO:53:LYS:CA	2.43	0.41
40:BO:97:ILE:HD12	40:BO:97:ILE:C	2.40	0.41
41:BQ:45:VAL:O	41:BQ:47:VAL:N	2.47	0.41
44:BT:63:ILE:O	44:BT:69:GLU:HA	2.20	0.41
47:BX:8:GLN:NE2	47:BX:23:LEU:HD13	2.36	0.41
49:B1:13:SER:HA	49:B1:19:PHE:HD1	1.86	0.41
1:AA:89:U:H2'	1:AA:90:C:O4'	2.21	0.41
1:AA:160:A:H2'	1:AA:161:A:O4'	2.21	0.41
1:AA:754:C:O2	1:AA:754:C:H2'	2.21	0.41
1:AA:915:A:H2'	1:AA:916:U:C5'	2.51	0.41
1:AA:1064:G:C4'	1:AA:1065:U:H4'	2.43	0.41
1:AA:1201:A:H2'	1:AA:1202:U:OP2	2.21	0.41
1:AA:1234:C:H2'	1:AA:1235:U:C6	2.55	0.41
2:AU:28:C:H2'	2:AU:29:A:H8	1.86	0.41
2:AV:16:U:C4'	2:AV:18:G:OP2	2.66	0.41
2:AW:66:A:H2'	2:AW:67:A:H8	1.84	0.41
5:AD:40:HIS:HB3	5:AD:43:ARG:CD	2.50	0.41
5:AD:104:MET:HE1	5:AD:179:GLY:HA3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AF:93:LYS:HD2	7:AF:93:LYS:C	2.41	0.41
12:AK:15:VAL:O	12:AK:17:ASP:N	2.53	0.41
12:AK:121:ARG:HG3	12:AK:121:ARG:NH1	2.36	0.41
15:AN:50:LEU:HD12	15:AN:50:LEU:N	2.36	0.41
19:AR:39:VAL:HB	19:AR:43:ILE:HG21	2.01	0.41
22:B0:19:A:P	40:BO:29:ARG:HG2	2.60	0.41
22:B0:605:G:H1	22:B0:623:C:H42	1.69	0.41
22:B0:897:C:H2'	22:B0:898:C:C6	2.56	0.41
22:B0:1491:A:OP2	26:BA:176:ARG:N	2.54	0.41
22:B0:1491:A:N3	26:BA:173:LEU:N	2.68	0.41
22:B0:1816:C:H4'	22:B0:1817:G:OP2	2.21	0.41
22:B0:2357:G:H4'	22:B0:2358:A:O5'	2.20	0.41
22:B0:2436:G:H21	22:B0:2597:G:N2	2.17	0.41
22:B0:2471:A:N6	22:B0:2476:A:O2'	2.54	0.41
22:B0:2639:A:C2	22:B0:2778:A:H1'	2.56	0.41
23:B9:42:C:C1'	29:BD:65:LEU:HD22	2.51	0.41
23:B9:66:A:O2'	23:B9:67:G:C8	2.72	0.41
25:B5:68:VAL:HG22	25:B5:115:ALA:HB2	2.02	0.41
28:BC:32:VAL:HA	35:BJ:18:ARG:HG2	2.02	0.41
32:BG:123:ALA:HA	32:BG:126:ARG:CG	2.51	0.41
35:BJ:54:GLN:NE2	35:BJ:57:LEU:N	2.67	0.41
36:BK:41:LEU:C	36:BK:93:VAL:HG23	2.40	0.41
38:BM:106:LEU:HD13	38:BM:106:LEU:C	2.41	0.41
42:BR:13:ALA:HA	42:BR:14:PRO:HD3	1.96	0.41
43:BS:62:ALA:HB3	43:BS:64:ILE:HD11	2.03	0.41
44:BT:28:ALA:O	44:BT:39:ALA:HA	2.20	0.41
44:BT:65:VAL:HG13	44:BT:65:VAL:O	2.21	0.41
48:BZ:52:LYS:O	48:BZ:53:VAL:HB	2.20	0.41
1:AA:34:C:N4	1:AA:35:G:O6	2.54	0.41
1:AA:319:G:O2'	1:AA:320:A:H5'	2.21	0.41
1:AA:417:G:N2	1:AA:427:U:C2	2.89	0.41
1:AA:476:U:H2'	1:AA:477:C:C6	2.56	0.41
1:AA:592:G:H2'	1:AA:593:U:C6	2.55	0.41
1:AA:649:A:H2'	1:AA:650:G:H8	1.86	0.41
1:AA:689:C:O2'	1:AA:690:G:H5'	2.21	0.41
1:AA:931:C:H1'	1:AA:1387:G:N2	2.36	0.41
1:AA:1057:G:H2'	1:AA:1058:G:O4'	2.21	0.41
1:AA:1096:C:H1'	1:AA:1168:U:O2	2.21	0.41
1:AA:1180:A:C2'	1:AA:1181:G:H5'	2.51	0.41
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.86	0.41
1:AA:1256:A:C2'	1:AA:1257:A:OP2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1293:C:H2'	1:AA:1294:G:H8	1.84	0.41
1:AA:1317:C:N4	20:AS:5:LYS:O	2.53	0.41
1:AA:1341:U:H2'	1:AA:1342:C:H6	1.86	0.41
1:AA:1371:G:H2'	1:AA:1372:U:C5	2.53	0.41
1:AA:1430:A:H2'	1:AA:1431:A:H8	1.86	0.41
2:AU:75:C:O5'	22:B0:2557:G:O5'	2.39	0.41
2:AW:40:C:H2'	2:AW:41:U:H6	1.86	0.41
3:AB:22:TRP:CZ3	3:AB:24:PRO:HA	2.56	0.41
3:AB:46:VAL:HA	3:AB:49:PHE:CD2	2.53	0.41
4:AC:14:VAL:O	4:AC:15:LYS:HB2	2.20	0.41
4:AC:85:LYS:O	4:AC:89:VAL:HG22	2.21	0.41
5:AD:58:GLN:HG3	5:AD:62:ARG:HE	1.85	0.41
6:AE:73:VAL:HG23	6:AE:73:VAL:O	2.21	0.41
6:AE:91:SER:N	6:AE:129:SER:HB3	2.35	0.41
6:AE:123:LEU:HD13	6:AE:124:ALA:N	2.35	0.41
6:AE:154:ALA:O	9:AH:65:PHE:CE2	2.74	0.41
7:AF:35:LYS:C	7:AF:64:VAL:HG23	2.41	0.41
8:AG:36:SER:HA	10:AI:40:ARG:HD2	2.03	0.41
8:AG:78:ARG:O	8:AG:80:GLY:N	2.54	0.41
8:AG:149:ALA:C	8:AG:151:ALA:N	2.74	0.41
9:AH:79:ARG:HH11	9:AH:79:ARG:HG3	1.86	0.41
9:AH:109:VAL:HG13	9:AH:109:VAL:O	2.21	0.41
11:AJ:14:ASP:O	11:AJ:18:ILE:HG13	2.21	0.41
13:AL:43:LYS:N	13:AL:44:PRO:HD2	2.36	0.41
13:AL:65:TYR:O	13:AL:96:THR:HG22	2.20	0.41
14:AM:76:ILE:HG22	14:AM:76:ILE:O	2.21	0.41
15:AN:66:THR:HG23	15:AN:68:ARG:H	1.85	0.41
22:B0:71:A:H1'	22:B0:73:A:C6	2.56	0.41
22:B0:73:A:H3'	22:B0:73:A:OP1	2.21	0.41
22:B0:99:U:H5''	22:B0:100:U:O5'	2.21	0.41
22:B0:223:A:H4'	22:B0:420:C:HO2'	1.83	0.41
22:B0:295:G:H22	22:B0:343:C:H1'	1.86	0.41
22:B0:403:U:H4'	22:B0:406:G:O4'	2.20	0.41
22:B0:412:A:OP2	22:B0:2406:A:OP2	2.38	0.41
22:B0:600:G:C6	28:BC:99:LYS:HE3	2.55	0.41
22:B0:629:G:H2'	22:B0:630:G:C8	2.56	0.41
22:B0:722:A:H2'	22:B0:723:C:C6	2.55	0.41
22:B0:758:C:H2'	22:B0:759:G:C8	2.56	0.41
22:B0:838:C:H42	22:B0:940:G:H22	1.68	0.41
22:B0:851:C:O2	22:B0:851:C:C2'	2.66	0.41
22:B0:924:G:H4'	45:BU:25:PHE:HE2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:931:U:H4'	22:B0:932:U:O4'	2.20	0.41
22:B0:974:G:O2'	22:B0:975:A:O4'	2.38	0.41
22:B0:1057:A:H61	22:B0:1081:U:H3	1.68	0.41
22:B0:1083:U:O2	25:B3:81:LYS:NZ	2.43	0.41
22:B0:1108:U:H2'	22:B0:1109:C:H6	1.86	0.41
22:B0:1165:A:H2'	22:B0:1166:G:C8	2.56	0.41
22:B0:1317:G:H2'	22:B0:1318:U:C6	2.56	0.41
22:B0:1417:U:H4'	22:B0:1588:A:O4'	2.20	0.41
22:B0:1456:G:H2'	22:B0:1457:G:H8	1.86	0.41
22:B0:1479:G:H4'	22:B0:1559:U:H4'	2.03	0.41
22:B0:1489:U:C5'	26:BA:200:MET:SD	3.09	0.41
22:B0:1491:A:C5'	26:BA:153:LEU:HD21	2.45	0.41
22:B0:1492:G:C5	26:BA:153:LEU:HA	2.55	0.41
22:B0:1528:A:H8	22:B0:1528:A:O5'	2.04	0.41
22:B0:1579:A:C4	26:BA:66:PHE:C	2.93	0.41
22:B0:1669:A:N3	22:B0:1669:A:C2'	2.79	0.41
22:B0:1683:U:H2'	22:B0:1684:G:C8	2.55	0.41
22:B0:1817:G:H2'	22:B0:1818:U:O4'	2.21	0.41
22:B0:1833:C:O2	22:B0:1973:G:N1	2.53	0.41
22:B0:1991:U:C2'	22:B0:1992:G:H5'	2.50	0.41
22:B0:1996:C:P	27:BB:139:SER:HB2	2.61	0.41
22:B0:2115:G:O2'	22:B0:2171:A:N6	2.45	0.41
22:B0:2167:U:H6	22:B0:2168:G:H5''	1.86	0.41
22:B0:2217:G:O2'	22:B0:2223:G:H5'	2.21	0.41
22:B0:2241:A:H2	22:B0:2242:G:C5	2.39	0.41
22:B0:2251:G:H2'	22:B0:2252:G:O4'	2.20	0.41
22:B0:2395:C:H2'	22:B0:2396:G:C8	2.56	0.41
22:B0:2428:G:H4'	22:B0:2429:G:C2	2.55	0.41
22:B0:2478:A:C2'	22:B0:2529:G:C8	3.01	0.41
22:B0:2516:A:H8	27:BB:154:LYS:HZ3	1.68	0.41
22:B0:2605:U:H2'	22:B0:2606:C:C6	2.56	0.41
22:B0:2623:G:H2'	22:B0:2624:G:H8	1.86	0.41
22:B0:2776:A:H4'	22:B0:2777:G:C5'	2.51	0.41
23:B9:84:G:C3'	23:B9:85:G:H5''	2.50	0.41
24:B2:161:ARG:N	24:B2:161:ARG:CD	2.84	0.41
25:B3:98:VAL:HG23	25:B3:103:ALA:HB2	2.03	0.41
26:BA:245:THR:HG22	26:BA:247:TRP:H	1.84	0.41
27:BB:13:ARG:NH1	39:BN:10:GLU:HB3	2.34	0.41
27:BB:29:VAL:H	27:BB:186:LEU:HA	1.86	0.41
28:BC:155:GLU:CG	28:BC:156:ASN:H	2.29	0.41
28:BC:176:ASP:HB2	28:BC:178:VAL:CG1	2.42	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:BE:106:LEU:HD21	30:BE:164:ALA:HB3	2.02	0.41
31:BF:99:ILE:HD12	31:BF:99:ILE:H	1.84	0.41
32:BG:59:THR:HG22	32:BG:67:THR:HB	2.02	0.41
33:BH:55:ILE:HD13	33:BH:124:VAL:HA	2.03	0.41
34:BI:45:GLU:HA	34:BI:54:LYS:NZ	2.36	0.41
37:BL:63:ARG:HE	37:BL:63:ARG:HB3	1.60	0.41
37:BL:112:TYR:CD1	37:BL:112:TYR:N	2.89	0.41
39:BN:47:ILE:CD1	39:BN:63:ILE:HG23	2.51	0.41
39:BN:49:ILE:HG21	39:BN:99:LEU:HD13	2.03	0.41
39:BN:63:ILE:CG1	39:BN:74:GLN:HG2	2.51	0.41
39:BN:99:LEU:HD23	39:BN:99:LEU:O	2.21	0.41
40:BO:14:LYS:O	40:BO:16:ILE:N	2.53	0.41
40:BO:27:ARG:HH21	40:BO:33:VAL:HG11	1.86	0.41
40:BO:44:TYR:CD1	40:BO:44:TYR:C	2.94	0.41
40:BO:94:LEU:HD22	40:BO:95:ALA:H	1.86	0.41
41:BQ:107:VAL:HG23	41:BQ:107:VAL:O	2.21	0.41
42:BR:43:ILE:HB	42:BR:60:THR:HG21	2.03	0.41
43:BS:13:LEU:HA	43:BS:18:LYS:HG3	2.02	0.41
44:BT:14:LYS:O	44:BT:18:ARG:HG3	2.21	0.41
44:BT:30:ILE:HG21	44:BT:72:VAL:HG11	2.03	0.41
44:BT:48:MET:O	44:BT:51:GLN:HG3	2.21	0.41
45:BU:70:VAL:CG2	45:BU:71:LYS:HD2	2.51	0.41
47:BX:8:GLN:NE2	47:BX:15:ARG:HH22	2.18	0.41
48:BZ:51:ARG:HH11	48:BZ:51:ARG:CG	2.33	0.41
1:AA:92:U:H2'	1:AA:93:U:C6	2.56	0.41
1:AA:154:U:H2'	1:AA:155:A:H8	1.86	0.41
1:AA:253:A:H2'	1:AA:254:G:H8	1.85	0.41
1:AA:270:A:H2'	1:AA:271:C:C6	2.56	0.41
1:AA:321:A:H2'	1:AA:322:C:C6	2.56	0.41
1:AA:400:C:H6	1:AA:400:C:O5'	2.04	0.41
1:AA:545:C:HO2'	1:AA:548:G:C2'	2.33	0.41
1:AA:553:A:H2'	1:AA:554:A:C8	2.56	0.41
1:AA:563:A:N3	1:AA:563:A:C2'	2.84	0.41
1:AA:774:G:O2'	1:AA:775:G:H5'	2.21	0.41
1:AA:876:C:H2'	1:AA:877:G:C8	2.55	0.41
1:AA:935:A:H2'	1:AA:936:C:H6	1.85	0.41
1:AA:956:U:H2'	1:AA:957:U:C6	2.56	0.41
1:AA:982:U:H5''	1:AA:983:A:OP1	2.21	0.41
1:AA:1257:A:H4'	1:AA:1258:G:C5'	2.50	0.41
1:AA:1271:A:H4'	1:AA:1314:C:C5'	2.51	0.41
1:AA:1401:G:N2	1:AA:1402:C:H1'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.21	0.41
2:AV:3:G:H4'	22:B0:2255:G:O2'	2.21	0.41
2:AV:20:G:H3'	2:AV:21:A:H5'	2.02	0.41
3:AB:30:ILE:CG2	3:AB:38:HIS:HB3	2.51	0.41
4:AC:126:ARG:NH1	4:AC:126:ARG:CB	2.84	0.41
5:AD:112:GLU:O	5:AD:116:LEU:HG	2.21	0.41
7:AF:1:MET:SD	7:AF:65:GLU:HG2	2.61	0.41
10:AI:9:GLY:HA2	10:AI:80:HIS:HD2	1.86	0.41
10:AI:18:VAL:HG21	10:AI:82:ILE:N	2.36	0.41
10:AI:53:LEU:HD12	10:AI:53:LEU:H	1.86	0.41
11:AJ:30:LYS:HB3	11:AJ:30:LYS:HZ2	1.84	0.41
11:AJ:58:ASN:CG	11:AJ:61:ALA:HB2	2.42	0.41
18:AQ:31:PRO:HG2	18:AQ:32:ILE:CD1	2.51	0.41
19:AR:11:ARG:HH11	19:AR:11:ARG:HG3	1.86	0.41
22:B0:185:G:H4'	22:B0:218:A:H4'	2.02	0.41
22:B0:371:A:OP1	22:B0:371:A:H3'	2.20	0.41
22:B0:441:U:O2'	22:B0:442:G:H5'	2.20	0.41
22:B0:481:G:N2	22:B0:506:G:H4'	2.24	0.41
22:B0:493:G:C8	41:BQ:10:ALA:CB	3.04	0.41
22:B0:753:A:O2'	22:B0:754:U:H5'	2.21	0.41
22:B0:866:A:H2'	22:B0:909:A:N1	2.35	0.41
22:B0:908:C:H2'	22:B0:909:A:C8	2.56	0.41
22:B0:964:C:H4'	22:B0:2273:A:H1'	2.03	0.41
22:B0:1152:C:H2'	22:B0:1153:C:H6	1.82	0.41
22:B0:1400:U:H2'	22:B0:1401:G:C8	2.56	0.41
22:B0:1922:G:O2'	22:B0:1923:U:OP1	2.37	0.41
22:B0:1922:G:H2'	22:B0:1923:U:H6	1.85	0.41
22:B0:1931:U:C2'	22:B0:1932:A:H5''	2.43	0.41
22:B0:2161:C:C5'	22:B0:2162:G:OP1	2.68	0.41
22:B0:2162:G:N7	22:B0:2164:C:C2'	2.84	0.41
22:B0:2300:C:H2'	22:B0:2301:C:C6	2.56	0.41
22:B0:2558:C:O2'	22:B0:2559:C:H5'	2.21	0.41
22:B0:2644:G:O2'	22:B0:2645:G:O5'	2.39	0.41
22:B0:2786:U:C4	22:B0:2787:C:N4	2.89	0.41
24:B2:179:PHE:HB2	24:B2:184:LEU:HD21	2.02	0.41
26:BA:73:ILE:HA	26:BA:74:PRO:HD3	1.68	0.41
26:BA:78:GLU:N	26:BA:92:LEU:O	2.54	0.41
26:BA:145:MET:O	26:BA:183:VAL:HG21	2.22	0.41
27:BB:124:ARG:O	27:BB:125:TRP:C	2.59	0.41
28:BC:102:ARG:O	28:BC:105:LEU:N	2.53	0.41
29:BD:106:ALA:C	29:BD:109:ARG:HB3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:BI:29:HIS:O	34:BI:31:ARG:N	2.54	0.41
34:BI:59:LYS:HB2	34:BI:87:LEU:CD1	2.51	0.41
35:BJ:41:ARG:NH1	35:BJ:42:SER:N	2.69	0.41
36:BK:53:MET:O	36:BK:57:VAL:HG22	2.21	0.41
37:BL:83:LEU:H	37:BL:86:ARG:CD	2.25	0.41
39:BN:36:LYS:HB2	39:BN:36:LYS:HZ2	1.84	0.41
39:BN:60:VAL:HG12	39:BN:61:ARG:N	2.36	0.41
39:BN:87:ARG:HD3	39:BN:87:ARG:N	2.26	0.41
41:BQ:79:GLY:HA3	41:BQ:80:PRO:HA	1.95	0.41
42:BR:56:GLU:HG2	42:BR:86:THR:OG1	2.20	0.41
1:AA:109:A:N6	1:AA:326:G:O6	2.53	0.40
1:AA:291:U:H2'	1:AA:292:G:O4'	2.20	0.40
1:AA:346:G:H2'	1:AA:347:G:H5'	2.03	0.40
1:AA:509:A:HO2'	1:AA:510:A:P	2.44	0.40
1:AA:654:G:C2	1:AA:753:A:H1'	2.56	0.40
1:AA:805:C:H2'	1:AA:806:C:H6	1.85	0.40
1:AA:1065:U:O2'	1:AA:1066:C:C6	2.66	0.40
1:AA:1201:A:C2'	1:AA:1202:U:OP2	2.69	0.40
1:AA:1241:G:OP2	1:AA:1242:G:N7	2.54	0.40
1:AA:1285:A:O2'	1:AA:1286:U:P	2.79	0.40
1:AA:1317:C:C2	20:AS:8:PRO:CG	2.98	0.40
1:AA:1347:G:H2'	1:AA:1373:G:O6	2.21	0.40
2:AW:38:A:C4	2:AW:39:U:O2	2.74	0.40
4:AC:27:GLU:OE2	4:AC:30:ASP:HB2	2.21	0.40
4:AC:148:ILE:HA	4:AC:200:TRP:O	2.21	0.40
6:AE:36:THR:HG21	6:AE:63:MET:N	2.36	0.40
7:AF:42:TRP:CE3	7:AF:61:LEU:HD11	2.56	0.40
13:AL:66:ILE:HA	13:AL:96:THR:HG22	2.03	0.40
16:AO:69:LEU:HD11	16:AO:76:ARG:HB3	2.01	0.40
17:AP:71:VAL:HG13	17:AP:72:ALA:N	2.36	0.40
22:B0:204:A:H4'	22:B0:205:G:H4'	2.02	0.40
22:B0:486:C:O2'	22:B0:487:C:H5'	2.21	0.40
22:B0:659:G:C4	28:BC:98:LYS:HD2	2.55	0.40
22:B0:669:G:P	28:BC:52:VAL:HB	2.61	0.40
22:B0:795:C:H2'	22:B0:796:C:C6	2.56	0.40
22:B0:800:A:C3'	22:B0:801:G:H5''	2.51	0.40
22:B0:838:C:N4	22:B0:941:A:C6	2.89	0.40
22:B0:1008:A:C5'	22:B0:1009:A:OP1	2.69	0.40
22:B0:1377:G:H8	22:B0:1377:G:O5'	2.05	0.40
22:B0:1491:A:O5'	26:BA:175:LEU:HA	2.21	0.40
22:B0:1710:G:H2'	22:B0:1711:A:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:1749:A:H2'	22:B0:1750:G:H8	1.86	0.40
22:B0:1804:C:H2'	22:B0:1805:A:H8	1.86	0.40
22:B0:1832:C:C3'	22:B0:1833:C:C5'	2.98	0.40
22:B0:2137:U:O2'	22:B0:2138:G:C5'	2.65	0.40
22:B0:2333:A:H5'	22:B0:2335:A:O4'	2.22	0.40
22:B0:2463:C:H2'	22:B0:2464:G:C8	2.56	0.40
22:B0:2842:G:H2'	22:B0:2843:G:C8	2.56	0.40
25:B3:15:SER:HA	25:B5:13:ALA:HB2	2.01	0.40
26:BA:83:ASP:OD2	26:BA:86:ARG:HB3	2.21	0.40
26:BA:104:LEU:HD12	26:BA:126:GLY:CA	2.50	0.40
26:BA:140:VAL:CG2	26:BA:161:VAL:HG22	2.51	0.40
26:BA:170:TYR:CD1	26:BA:171:VAL:N	2.89	0.40
26:BA:214:GLY:C	26:BA:217:PRO:HD3	2.41	0.40
26:BA:239:PHE:CD1	26:BA:239:PHE:N	2.89	0.40
28:BC:32:VAL:CA	35:BJ:17:LYS:HD3	2.51	0.40
28:BC:94:GLN:O	28:BC:96:VAL:HG12	2.21	0.40
30:BE:142:GLN:HA	30:BE:142:GLN:NE2	2.35	0.40
33:BH:106:LYS:CD	33:BH:116:ARG:HH12	2.34	0.40
36:BK:69:PRO:HB2	36:BK:92:TRP:HB3	2.03	0.40
37:BL:45:ARG:HA	37:BL:45:ARG:NE	2.36	0.40
37:BL:96:ARG:H	37:BL:96:ARG:CD	2.34	0.40
39:BN:4:ILE:C	39:BN:4:ILE:HD12	2.41	0.40
39:BN:30:TRP:CG	39:BN:83:ILE:HG22	2.57	0.40
42:BR:56:GLU:HG2	42:BR:57:VAL:HG22	2.04	0.40
1:AA:67:C:H2'	1:AA:68:G:C8	2.56	0.40
1:AA:121:U:H4'	1:AA:122:G:N7	2.36	0.40
1:AA:339:C:OP1	34:BI:13:ASN:CB	2.69	0.40
1:AA:437:U:OP2	1:AA:438:U:OP2	2.39	0.40
1:AA:662:U:H2'	1:AA:663:A:C8	2.56	0.40
1:AA:780:A:H5''	12:AK:124:LYS:CE	2.46	0.40
1:AA:888:G:OP2	1:AA:890:G:OP2	2.39	0.40
1:AA:953:G:H2'	1:AA:954:G:O4'	2.21	0.40
1:AA:1238:A:H1'	1:AA:1241:G:H22	1.85	0.40
1:AA:1489:G:H2'	1:AA:1490:U:C6	2.57	0.40
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.86	0.40
2:AW:16:U:C4'	2:AW:18:G:OP2	2.69	0.40
4:AC:20:THR:HG23	4:AC:57:GLU:HG2	2.02	0.40
4:AC:130:ARG:HD2	6:AE:53:ARG:HD3	2.03	0.40
4:AC:141:MET:O	4:AC:141:MET:HE3	2.21	0.40
5:AD:13:ARG:HG3	5:AD:55:ARG:NH2	2.36	0.40
7:AF:49:TYR:HA	7:AF:50:PRO:HD3	1.96	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AG:30:MET:O	8:AG:30:MET:HG2	2.21	0.40
13:AL:23:LEU:HD22	13:AL:23:LEU:N	2.36	0.40
13:AL:79:ILE:HA	13:AL:101:LEU:HD12	2.03	0.40
14:AM:91:ARG:HH22	20:AS:87:LYS:HB3	1.87	0.40
15:AN:86:ALA:O	15:AN:91:GLU:HG2	2.21	0.40
15:AN:99:SER:OG	15:AN:100:TRP:N	2.55	0.40
20:AS:38:THR:HB	20:AS:40:PHE:CE1	2.57	0.40
22:B0:959:A:C1'	36:BK:80:VAL:HG12	2.51	0.40
22:B0:1017:G:H2'	22:B0:1018:U:C6	2.57	0.40
22:B0:1084:A:O2'	22:B0:1085:A:H5'	2.21	0.40
22:B0:1197:G:H5'	22:B0:1227:G:O3'	2.20	0.40
22:B0:1244:A:H2'	22:B0:1245:G:O4'	2.21	0.40
22:B0:1276:A:O2'	22:B0:1277:G:H5'	2.22	0.40
22:B0:1312:U:H4'	22:B0:1313:U:H5''	2.02	0.40
22:B0:1332:G:H5''	22:B0:1333:G:OP2	2.22	0.40
22:B0:1454:A:H3'	22:B0:1455:U:C4'	2.50	0.40
22:B0:1494:A:OP1	26:BA:161:VAL:HG11	2.21	0.40
22:B0:1496:A:P	26:BA:190:THR:HG23	2.61	0.40
22:B0:1496:A:O3'	26:BA:104:LEU:HD23	2.21	0.40
22:B0:1593:G:O2'	22:B0:1594:U:OP1	2.39	0.40
22:B0:2115:G:H5''	22:B0:2168:G:O2'	2.21	0.40
22:B0:2145:C:OP1	22:B0:2145:C:H4'	2.21	0.40
22:B0:2329:U:H2'	22:B0:2330:G:H8	1.85	0.40
22:B0:2866:U:H1'	22:B0:2868:A:O4'	2.21	0.40
24:B2:59:ARG:HG3	24:B2:163:ARG:HG2	2.03	0.40
24:B2:129:VAL:HG23	24:B2:130:LEU:HG	2.03	0.40
24:B2:225:GLN:CD	24:B2:225:GLN:H	2.24	0.40
26:BA:75:ALA:O	26:BA:115:ILE:N	2.47	0.40
26:BA:80:LEU:HD11	26:BA:89:ASN:HB2	2.03	0.40
27:BB:155:VAL:O	27:BB:155:VAL:HG13	2.21	0.40
28:BC:93:SER:OG	28:BC:94:GLN:N	2.54	0.40
29:BD:84:ILE:HD12	29:BD:84:ILE:C	2.42	0.40
32:BG:29:GLN:HA	32:BG:29:GLN:HE21	1.85	0.40
33:BH:77:HIS:ND1	33:BH:77:HIS:C	2.74	0.40
34:BI:64:ARG:HD2	34:BI:79:PHE:CD2	2.56	0.40
35:BJ:92:LEU:HD22	35:BJ:92:LEU:C	2.42	0.40
35:BJ:95:LEU:C	35:BJ:96:LYS:HD3	2.41	0.40
35:BJ:118:THR:OG1	35:BJ:120:VAL:N	2.46	0.40
36:BK:45:GLN:OE1	36:BK:125:PRO:HD3	2.21	0.40
36:BK:76:LYS:N	36:BK:76:LYS:HD3	2.37	0.40
40:BO:4:LYS:O	40:BO:5:ARG:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BO:74:SER:O	40:BO:75:TYR:C	2.60	0.40
40:BO:78:PHE:CE1	40:BO:79:ILE:HB	2.56	0.40
41:BQ:15:GLN:HA	41:BQ:15:GLN:NE2	2.36	0.40
42:BR:16:VAL:CG1	42:BR:17:SER:H	2.12	0.40
42:BR:40:LYS:N	42:BR:40:LYS:HD2	2.36	0.40
43:BS:12:VAL:HG12	43:BS:13:LEU:N	2.35	0.40
45:BU:68:PHE:O	45:BU:70:VAL:N	2.52	0.40
46:BW:27:ASN:N	46:BW:27:ASN:HD22	2.18	0.40
49:B1:36:LYS:O	49:B1:38:PHE:HD1	2.03	0.40
1:AA:22:G:O2'	1:AA:23:C:H5'	2.21	0.40
1:AA:258:G:H2'	1:AA:259:G:H8	1.86	0.40
1:AA:296:U:H2'	1:AA:297:G:C8	2.57	0.40
1:AA:312:C:H2'	1:AA:313:A:C8	2.57	0.40
1:AA:483:C:H5''	1:AA:484:G:C3'	2.51	0.40
1:AA:716:A:N3	12:AK:119:GLY:HA3	2.36	0.40
1:AA:824:G:H2'	1:AA:825:A:H8	1.84	0.40
1:AA:868:C:H2'	1:AA:869:G:O4'	2.22	0.40
1:AA:981:U:C4	1:AA:982:U:C4	3.10	0.40
1:AA:1003:G:C6	1:AA:1039:G:N2	2.89	0.40
1:AA:1224:U:N3	1:AA:1322:C:N4	2.68	0.40
1:AA:1413:A:H2'	1:AA:1414:U:H6	1.86	0.40
1:AA:1504:G:H5''	1:AA:1505:G:H5'	2.04	0.40
2:AU:75:C:C5'	22:B0:2557:G:OP2	2.69	0.40
2:AV:50:U:H2'	2:AV:51:G:C8	2.56	0.40
2:AV:52:U:H2'	2:AV:53:G:C8	2.55	0.40
3:AB:69:VAL:HG12	3:AB:168:GLU:HG2	2.02	0.40
4:AC:113:LYS:HD2	4:AC:184:ASN:HA	2.03	0.40
5:AD:53:GLN:HG3	5:AD:198:LEU:O	2.22	0.40
5:AD:57:LYS:CB	5:AD:199:ILE:HG13	2.51	0.40
5:AD:106:PHE:CE1	5:AD:158:LEU:HD11	2.56	0.40
5:AD:200:VAL:HG23	5:AD:201:GLU:N	2.37	0.40
7:AF:10:VAL:HG11	7:AF:21:MET:HE1	2.03	0.40
8:AG:35:LYS:O	8:AG:39:GLU:HG2	2.22	0.40
10:AI:11:ARG:NE	10:AI:12:LYS:HG3	2.37	0.40
11:AJ:48:ARG:NE	11:AJ:66:GLU:OE1	2.54	0.40
14:AM:92:ARG:HA	14:AM:92:ARG:NE	2.36	0.40
16:AO:67:ASP:O	16:AO:71:ARG:HB2	2.22	0.40
18:AQ:24:ILE:HG12	18:AQ:41:THR:O	2.22	0.40
22:B0:301:G:O5'	22:B0:302:C:OP1	2.38	0.40
22:B0:308:G:O6	22:B0:501:A:H1'	2.21	0.40
22:B0:482:A:N3	22:B0:498:G:N2	2.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:493:G:N7	41:BQ:9:HIS:HB2	2.36	0.40
22:B0:874:G:H2'	22:B0:875:G:C8	2.56	0.40
22:B0:902:C:H2'	22:B0:903:C:C6	2.57	0.40
22:B0:962:G:C1'	22:B0:2497:A:OP2	2.67	0.40
22:B0:1080:A:C5'	32:BG:130:GLY:HA3	2.50	0.40
22:B0:1221:C:H2'	22:B0:1222:U:H6	1.86	0.40
22:B0:1238:G:O2'	22:B0:1239:G:H5'	2.20	0.40
22:B0:1497:U:H2'	26:BA:61:TYR:CD2	2.57	0.40
22:B0:1499:U:N3	26:BA:155:ARG:HB3	2.37	0.40
22:B0:1579:A:C5'	26:BA:66:PHE:H	2.34	0.40
22:B0:1766:G:N2	22:B0:1986:C:O2	2.51	0.40
22:B0:1953:A:H2	22:B0:2549:G:N2	2.19	0.40
22:B0:2124:G:OP1	24:B2:104:LYS:HD2	2.21	0.40
22:B0:2164:C:C4'	22:B0:2165:C:C1'	2.76	0.40
22:B0:2167:U:H5	22:B0:2168:G:H3'	1.86	0.40
22:B0:2215:C:O2'	22:B0:2216:G:H5'	2.20	0.40
22:B0:2582:G:N3	22:B0:2582:G:C2'	2.80	0.40
22:B0:2648:G:H2'	22:B0:2649:C:C6	2.57	0.40
22:B0:2678:C:P	27:BB:124:ARG:HB3	2.61	0.40
22:B0:2678:C:C6	27:BB:125:TRP:HA	2.56	0.40
22:B0:2690:U:C1'	22:B0:2873:A:N6	2.85	0.40
23:B9:16:G:H2'	23:B9:17:C:H5'	2.03	0.40
24:B2:20:TYR:CD1	24:B2:20:TYR:N	2.89	0.40
24:B2:26:ILE:HD12	24:B2:26:ILE:H	1.86	0.40
24:B2:38:VAL:CG2	24:B2:176:LYS:HB3	2.52	0.40
28:BC:67:ARG:HH11	28:BC:67:ARG:HG3	1.85	0.40
28:BC:122:GLU:HG3	28:BC:123:LYS:N	2.36	0.40
29:BD:111:ARG:NH2	29:BD:134:GLN:HG3	2.14	0.40
29:BD:165:GLY:C	29:BD:167:ALA:N	2.73	0.40
32:BG:7:TYR:CD1	32:BG:7:TYR:N	2.89	0.40
33:BH:36:LEU:HD12	33:BH:51:GLY:CA	2.41	0.40
35:BJ:118:THR:HG23	35:BJ:119:PRO:C	2.41	0.40
36:BK:32:GLY:HA3	36:BK:101:VAL:CG2	2.51	0.40
36:BK:75:GLU:C	36:BK:76:LYS:HD3	2.42	0.40
37:BL:99:LYS:NZ	37:BL:99:LYS:CB	2.85	0.40
38:BM:76:LYS:O	38:BM:80:GLU:HB2	2.20	0.40
40:BO:91:ARG:HH11	40:BO:95:ALA:HB3	1.86	0.40
41:BQ:12:SER:CB	41:BQ:17:VAL:HG21	2.38	0.40
42:BR:8:LEU:HG	46:BW:26:PHE:CD2	2.56	0.40
1:AA:60:A:O2'	1:AA:61:G:O4'	2.24	0.40
1:AA:187:G:H2'	1:AA:188:C:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:359:G:O2'	1:AA:360:G:H5'	2.22	0.40
1:AA:502:A:H2'	1:AA:503:C:C6	2.56	0.40
1:AA:701:U:H5''	1:AA:703:G:O4'	2.21	0.40
1:AA:1093:A:H61	1:AA:1171:A:H4'	1.86	0.40
1:AA:1386:G:O2'	10:AI:129:ARG:CD	2.69	0.40
2:AU:16:U:C4'	2:AU:18:G:OP2	2.62	0.40
2:AU:18:G:C1'	2:AU:57:G:H22	2.33	0.40
2:AW:14:A:H2'	2:AW:15:G:O4'	2.21	0.40
2:AW:23:A:H2'	2:AW:24:G:C8	2.56	0.40
3:AB:169:HIS:CE1	3:AB:173:LYS:HD3	2.55	0.40
3:AB:186:VAL:HG21	3:AB:190:SER:CB	2.51	0.40
4:AC:21:TRP:CD1	4:AC:21:TRP:N	2.90	0.40
4:AC:195:ILE:HD12	4:AC:196:GLY:H	1.87	0.40
5:AD:120:LYS:O	5:AD:145:ARG:HG3	2.22	0.40
6:AE:29:ILE:HG23	6:AE:29:ILE:O	2.22	0.40
7:AF:51:ILE:HD12	7:AF:51:ILE:C	2.41	0.40
9:AH:10:LEU:CG	9:AH:74:ILE:HG12	2.52	0.40
9:AH:51:GLU:HG3	9:AH:52:GLY:H	1.86	0.40
9:AH:78:SER:HB2	9:AH:84:ILE:HG12	2.03	0.40
11:AJ:52:LEU:HA	11:AJ:62:ARG:HA	2.03	0.40
13:AL:30:ARG:O	13:AL:56:LEU:HA	2.22	0.40
13:AL:49:ARG:HH11	13:AL:49:ARG:HG3	1.86	0.40
14:AM:55:LEU:O	14:AM:59:VAL:HG23	2.22	0.40
17:AP:9:HIS:O	17:AP:10:GLY:C	2.59	0.40
18:AQ:22:VAL:HG11	18:AQ:60:ILE:CD1	2.51	0.40
22:B0:118:A:H8	22:B0:119:A:C8	2.39	0.40
22:B0:242:G:H2'	22:B0:243:U:OP2	2.21	0.40
22:B0:276:U:H4'	22:B0:278:A:OP1	2.20	0.40
22:B0:587:C:O2'	28:BC:82:GLY:C	2.60	0.40
22:B0:618:G:C2'	22:B0:619:G:H5'	2.51	0.40
22:B0:719:C:H2'	22:B0:720:U:C6	2.57	0.40
22:B0:723:C:H2'	22:B0:724:U:C6	2.56	0.40
22:B0:764:A:O2'	22:B0:765:C:P	2.79	0.40
22:B0:906:U:C2	22:B0:907:G:H1'	2.56	0.40
22:B0:1043:C:C3'	22:B0:1044:C:H5''	2.51	0.40
22:B0:1358:G:H2'	22:B0:1359:A:C8	2.56	0.40
22:B0:1422:G:H1'	26:BA:149:LYS:HE2	2.02	0.40
22:B0:1562:U:H2'	22:B0:1563:U:C6	2.56	0.40
22:B0:1580:A:C2'	22:B0:1581:A:C5'	2.99	0.40
22:B0:1693:U:C5'	22:B0:1694:C:OP2	2.59	0.40
22:B0:1966:A:O2'	22:B0:2593:U:H5''	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:2032:G:O6	22:B0:2571:U:H4'	2.21	0.40
22:B0:2117:A:O3'	22:B0:2118:U:O4'	2.39	0.40
22:B0:2354:C:C4'	45:BU:20:LEU:HD13	2.44	0.40
22:B0:2439:A:N3	22:B0:2439:A:H2'	2.36	0.40
22:B0:2711:A:H2'	22:B0:2714:G:H4'	2.03	0.40
22:B0:2738:A:H61	22:B0:2766:A:H61	1.68	0.40
23:B9:88:C:H2'	23:B9:89:U:C6	2.57	0.40
24:B2:127:GLY:HA3	24:B2:136:MET:HE1	2.02	0.40
26:BA:67:LYS:HZ2	26:BA:147:PRO:HB2	1.86	0.40
26:BA:167:ASP:OD2	26:BA:169:ALA:HB3	2.21	0.40
27:BB:88:GLU:CD	27:BB:95:SER:HB3	2.42	0.40
27:BB:105:LYS:O	27:BB:177:VAL:HG23	2.22	0.40
28:BC:29:HIS:O	28:BC:32:VAL:HG12	2.21	0.40
29:BD:155:ILE:HG23	29:BD:155:ILE:O	2.22	0.40
33:BH:56:VAL:HG21	33:BH:101:ILE:HD13	2.03	0.40
34:BI:31:ARG:O	34:BI:32:TYR:HB2	2.21	0.40
36:BK:5:LYS:HD3	36:BK:5:LYS:N	2.23	0.40
36:BK:124:LEU:HG	36:BK:126:ILE:HG22	2.03	0.40
40:BO:57:ARG:HG2	40:BO:57:ARG:NH1	2.35	0.40
40:BO:103:VAL:O	40:BO:104:ALA:HB3	2.22	0.40
43:BS:34:ILE:HG23	43:BS:34:ILE:O	2.21	0.40
1:AA:110:C:H2'	1:AA:111:G:O4'	2.22	0.40
1:AA:434:U:C2	1:AA:435:A:N7	2.89	0.40
1:AA:886:G:H2'	1:AA:887:G:O4'	2.21	0.40
1:AA:1247:U:O2	1:AA:1290:G:O6	2.40	0.40
1:AA:1381:U:N3	8:AG:78:ARG:NH1	2.70	0.40
3:AB:17:HIS:O	3:AB:18:GLN:HB2	2.21	0.40
3:AB:56:LEU:CD2	3:AB:216:VAL:HG23	2.51	0.40
4:AC:54:ILE:HD13	4:AC:54:ILE:H	1.82	0.40
4:AC:78:LYS:HB3	4:AC:78:LYS:HZ3	1.85	0.40
4:AC:128:MET:CE	6:AE:54:GLU:HG2	2.52	0.40
6:AE:92:ARG:HD2	6:AE:127:TYR:CB	2.50	0.40
7:AF:9:MET:O	7:AF:84:VAL:HG23	2.21	0.40
7:AF:10:VAL:CG1	7:AF:58:HIS:HB3	2.49	0.40
7:AF:38:ARG:HH11	7:AF:38:ARG:HG2	1.87	0.40
10:AI:128:LYS:O	10:AI:129:ARG:C	2.60	0.40
11:AJ:23:ALA:O	11:AJ:27:GLU:HG3	2.21	0.40
16:AO:39:GLN:HA	16:AO:42:PHE:CD2	2.53	0.40
16:AO:52:ARG:NH1	22:B0:716:A:O2'	2.54	0.40
22:B0:109:C:H2'	22:B0:110:G:C8	2.52	0.40
22:B0:265:A:C4'	22:B0:266:G:OP1	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B0:603:A:H2	22:B0:625:G:HO2'	1.64	0.40
22:B0:606:U:H4'	22:B0:658:U:O2'	2.22	0.40
22:B0:793:A:H2'	22:B0:794:A:OP2	2.21	0.40
22:B0:962:G:O2'	22:B0:963:U:H5'	2.22	0.40
22:B0:1011:G:HO2'	22:B0:1012:U:P	2.40	0.40
22:B0:1424:G:H2'	22:B0:1425:G:H5'	2.04	0.40
22:B0:1627:G:H2'	22:B0:1627:G:N3	2.37	0.40
22:B0:2031:A:N6	22:B0:2455:G:H4'	2.35	0.40
22:B0:2092:U:OP1	22:B0:2198:A:C2	2.74	0.40
22:B0:2102:G:H2'	22:B0:2103:C:C6	2.56	0.40
22:B0:2123:G:C4'	22:B0:2124:G:C4'	2.98	0.40
22:B0:2343:U:H2'	22:B0:2344:U:O4'	2.20	0.40
22:B0:2365:G:H5'	45:BU:37:VAL:HG23	2.02	0.40
22:B0:2446:G:N2	22:B0:2449:U:C4	2.89	0.40
22:B0:2841:C:H2'	22:B0:2842:G:H8	1.86	0.40
22:B0:2899:A:N6	33:BH:137:PRO:HD2	2.36	0.40
24:B2:76:VAL:CG1	24:B2:94:VAL:HG22	2.51	0.40
25:B3:54:PHE:HD2	25:B3:119:VAL:HG12	1.87	0.40
26:BA:79:ARG:HG2	26:BA:80:LEU:N	2.36	0.40
28:BC:31:VAL:C	28:BC:33:VAL:N	2.72	0.40
28:BC:56:GLY:O	28:BC:57:LYS:CB	2.70	0.40
29:BD:16:MET:CE	29:BD:24:VAL:HA	2.51	0.40
29:BD:111:ARG:HH11	29:BD:111:ARG:HG3	1.86	0.40
29:BD:153:ILE:O	29:BD:153:ILE:HG12	2.21	0.40
32:BG:121:ILE:O	32:BG:125:THR:HG23	2.21	0.40
33:BH:39:LYS:CG	33:BH:40:HIS:N	2.82	0.40
34:BI:24:VAL:CA	34:BI:39:ILE:HG22	2.48	0.40
34:BI:49:ARG:HG3	34:BI:49:ARG:NH1	2.36	0.40
35:BJ:17:LYS:C	35:BJ:18:ARG:HE	2.24	0.40
37:BL:80:PHE:N	37:BL:80:PHE:CD1	2.89	0.40
39:BN:10:GLU:CG	39:BN:11:GLN:N	2.67	0.40
40:BO:5:ARG:CG	40:BO:9:ALA:HB3	2.51	0.40
41:BQ:49:LYS:NZ	41:BQ:49:LYS:CA	2.82	0.40
42:BR:74:ILE:HD12	42:BR:76:ARG:CZ	2.51	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	
3	AB	230/236 (98%)	193 (84%)	28 (12%)	9 (4%)	3	23
4	AC	204/206 (99%)	160 (78%)	34 (17%)	10 (5%)	2	20
5	AD	202/204 (99%)	177 (88%)	22 (11%)	3 (2%)	10	46
6	AE	146/148 (99%)	135 (92%)	10 (7%)	1 (1%)	22	63
7	AF	93/95 (98%)	81 (87%)	10 (11%)	2 (2%)	6	35
8	AG	135/137 (98%)	114 (84%)	13 (10%)	8 (6%)	1	17
9	AH	125/127 (98%)	113 (90%)	9 (7%)	3 (2%)	6	33
10	AI	124/126 (98%)	93 (75%)	20 (16%)	11 (9%)	1	11
11	AJ	94/96 (98%)	73 (78%)	15 (16%)	6 (6%)	1	16
12	AK	114/116 (98%)	91 (80%)	14 (12%)	9 (8%)	1	13
13	AL	99/101 (98%)	75 (76%)	19 (19%)	5 (5%)	2	19
14	AM	111/115 (96%)	90 (81%)	18 (16%)	3 (3%)	5	31
15	AN	59/61 (97%)	50 (85%)	5 (8%)	4 (7%)	1	15
16	AO	84/86 (98%)	76 (90%)	8 (10%)	0	100	100
17	AP	76/78 (97%)	62 (82%)	13 (17%)	1 (1%)	12	48
18	AQ	77/79 (98%)	65 (84%)	10 (13%)	2 (3%)	5	31
19	AR	67/69 (97%)	62 (92%)	5 (8%)	0	100	100
20	AS	85/87 (98%)	69 (81%)	12 (14%)	4 (5%)	2	21
21	AT	81/83 (98%)	68 (84%)	11 (14%)	2 (2%)	5	32
24	B2	216/222 (97%)	183 (85%)	27 (12%)	6 (3%)	5	30
25	B3	108/119 (91%)	84 (78%)	18 (17%)	6 (6%)	2	19
25	B5	112/119 (94%)	89 (80%)	16 (14%)	7 (6%)	1	17
26	BA	215/227 (95%)	128 (60%)	56 (26%)	31 (14%)	0	4
27	BB	199/209 (95%)	148 (74%)	37 (19%)	14 (7%)	1	14
28	BC	194/198 (98%)	124 (64%)	45 (23%)	25 (13%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
29	BD	173/177 (98%)	96 (56%)	54 (31%)	23 (13%)	0	5
30	BE	165/167 (99%)	141 (86%)	22 (13%)	2 (1%)	13	50
31	BF	143/149 (96%)	121 (85%)	16 (11%)	6 (4%)	3	22
32	BG	135/139 (97%)	85 (63%)	33 (24%)	17 (13%)	0	5
33	BH	140/142 (99%)	77 (55%)	41 (29%)	22 (16%)	0	3
34	BI	120/122 (98%)	93 (78%)	20 (17%)	7 (6%)	1	18
35	BJ	136/140 (97%)	69 (51%)	37 (27%)	30 (22%)	0	1
36	BK	129/131 (98%)	93 (72%)	24 (19%)	12 (9%)	0	11
37	BL	110/114 (96%)	67 (61%)	32 (29%)	11 (10%)	0	9
38	BM	111/113 (98%)	90 (81%)	16 (14%)	5 (4%)	2	22
39	BN	112/114 (98%)	50 (45%)	35 (31%)	27 (24%)	0	1
40	BO	111/115 (96%)	59 (53%)	39 (35%)	13 (12%)	0	6
41	BQ	104/106 (98%)	68 (65%)	29 (28%)	7 (7%)	1	15
42	BR	83/92 (90%)	39 (47%)	25 (30%)	19 (23%)	0	1
43	BS	95/99 (96%)	69 (73%)	21 (22%)	5 (5%)	2	19
44	BT	92/94 (98%)	76 (83%)	13 (14%)	3 (3%)	4	26
45	BU	82/84 (98%)	43 (52%)	23 (28%)	16 (20%)	0	2
46	BW	58/60 (97%)	49 (84%)	5 (9%)	4 (7%)	1	15
47	BX	54/56 (96%)	51 (94%)	3 (6%)	0	100	100
48	BZ	27/29 (93%)	11 (41%)	6 (22%)	10 (37%)	0	0
49	B1	50/52 (96%)	27 (54%)	19 (38%)	4 (8%)	1	12
All	All	5480/5639 (97%)	4077 (74%)	988 (18%)	415 (8%)	2	13

All (415) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AB	14	HIS
3	AB	93	HIS
4	AC	126	ARG
4	AC	178	ARG
8	AG	31	VAL
8	AG	33	GLY
8	AG	79	VAL
10	AI	8	THR
10	AI	57	VAL

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Mol	Chain	Res	Type
11	AJ	36	VAL
11	AJ	57	VAL
12	AK	118	ASN
15	AN	70	HIS
20	AS	82	HIS
21	AT	68	LYS
24	B2	37	PHE
24	B2	169	ILE
24	B2	219	ALA
25	B3	93	ALA
25	B5	46	GLU
26	BA	44	ASN
26	BA	71	ASP
26	BA	97	ASP
26	BA	99	GLU
26	BA	100	ARG
26	BA	106	PRO
26	BA	149	LYS
26	BA	156	SER
26	BA	174	ARG
26	BA	184	GLU
26	BA	242	HIS
27	BB	82	PHE
27	BB	126	ASN
27	BB	138	LEU
27	BB	149	ASN
28	BC	44	ARG
28	BC	46	GLN
28	BC	49	ARG
28	BC	86	ALA
28	BC	88	ARG
28	BC	92	HIS
28	BC	155	GLU
28	BC	160	ALA
28	BC	178	VAL
28	BC	186	VAL
29	BD	8	LYS
29	BD	16	MET
29	BD	127	TYR
29	BD	144	LYS
31	BF	77	THR
32	BG	47	SER

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Mol	Chain	Res	Type
32	BG	65	SER
32	BG	75	ALA
32	BG	137	LEU
33	BH	15	TRP
33	BH	17	VAL
33	BH	36	LEU
33	BH	39	LYS
33	BH	96	ARG
33	BH	113	PRO
33	BH	128	ASN
33	BH	137	PRO
34	BI	52	VAL
35	BJ	39	LYS
35	BJ	46	VAL
35	BJ	60	ARG
35	BJ	90	VAL
35	BJ	94	THR
35	BJ	112	LEU
36	BK	78	LEU
36	BK	79	ALA
36	BK	80	VAL
36	BK	81	ARG
36	BK	109	PRO
37	BL	40	LYS
37	BL	88	ALA
37	BL	113	ILE
39	BN	21	PRO
39	BN	32	VAL
39	BN	56	SER
39	BN	60	VAL
39	BN	70	GLU
39	BN	72	VAL
39	BN	73	PHE
39	BN	91	VAL
39	BN	94	ALA
39	BN	95	LYS
39	BN	100	ARG
40	BO	19	GLN
40	BO	23	TYR
40	BO	46	TYR
40	BO	75	TYR
41	BQ	9	HIS

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Mol	Chain	Res	Type
41	BQ	12	SER
42	BR	19	LYS
42	BR	67	VAL
42	BR	96	VAL
45	BU	8	SER
45	BU	11	ASN
45	BU	58	LEU
45	BU	59	PHE
45	BU	78	PHE
45	BU	81	ILE
46	BW	28	LEU
46	BW	29	ARG
46	BW	34	SER
48	BZ	30	ASP
48	BZ	49	ARG
49	B1	34	GLU
49	B1	42	VAL
3	AB	15	PHE
3	AB	39	ILE
4	AC	49	ALA
4	AC	59	PRO
4	AC	125	ARG
6	AE	20	VAL
7	AF	51	ILE
8	AG	130	LYS
9	AH	47	ASP
9	AH	74	ILE
10	AI	11	ARG
11	AJ	61	ALA
12	AK	52	ARG
13	AL	112	ALA
14	AM	6	ILE
15	AN	52	ARG
17	AP	10	GLY
18	AQ	82	VAL
21	AT	69	ASN
24	B2	51	ALA
24	B2	167	ASN
25	B3	14	MET
25	B3	16	VAL
25	B3	45	VAL
25	B5	93	ALA

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Mol	Chain	Res	Type
26	BA	72	GLY
26	BA	93	VAL
26	BA	96	LYS
26	BA	177	SER
26	BA	194	VAL
26	BA	241	LYS
27	BB	91	THR
28	BC	32	VAL
28	BC	57	LYS
28	BC	60	TRP
28	BC	90	GLN
28	BC	95	LYS
28	BC	181	ILE
29	BD	31	GLU
29	BD	71	LYS
29	BD	93	GLU
29	BD	109	ARG
29	BD	120	SER
29	BD	176	PHE
32	BG	84	GLY
32	BG	93	ASN
33	BH	18	VAL
33	BH	23	LYS
33	BH	47	HIS
33	BH	51	GLY
33	BH	112	GLY
33	BH	114	LEU
34	BI	80	ASP
34	BI	91	SER
35	BJ	12	SER
35	BJ	22	GLY
35	BJ	37	GLY
35	BJ	38	GLN
35	BJ	93	ASN
35	BJ	105	ILE
35	BJ	120	VAL
36	BK	84	LYS
37	BL	51	LEU
37	BL	114	GLU
38	BM	60	GLU
38	BM	96	GLY
39	BN	29	VAL

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Mol	Chain	Res	Type
39	BN	38	ARG
39	BN	49	ILE
39	BN	88	ARG
39	BN	97	TYR
39	BN	108	ARG
41	BQ	10	ALA
41	BQ	28	LYS
41	BQ	63	GLY
42	BR	8	LEU
42	BR	17	SER
42	BR	28	ASN
42	BR	46	ALA
42	BR	82	LYS
42	BR	93	LEU
44	BT	81	PRO
45	BU	29	SER
45	BU	35	ILE
45	BU	70	VAL
45	BU	79	ILE
48	BZ	45	ASP
48	BZ	48	TYR
48	BZ	51	ARG
3	AB	205	ALA
4	AC	24	ASN
8	AG	35	LYS
8	AG	129	ASN
10	AI	113	LYS
10	AI	128	LYS
11	AJ	62	ARG
11	AJ	75	ASP
12	AK	53	GLY
13	AL	23	LEU
14	AM	15	VAL
15	AN	62	ARG
20	AS	5	LYS
25	B5	27	GLU
26	BA	45	ASN
26	BA	86	ARG
26	BA	125	PRO
26	BA	142	ASN
27	BB	104	VAL
27	BB	125	TRP

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Mol	Chain	Res	Type
27	BB	182	ALA
28	BC	14	VAL
28	BC	87	ALA
28	BC	150	THR
28	BC	153	LEU
29	BD	4	HIS
29	BD	9	ASP
29	BD	46	LYS
29	BD	111	ARG
29	BD	172	PHE
32	BG	14	ALA
32	BG	59	THR
33	BH	136	GLN
34	BI	30	ARG
34	BI	31	ARG
34	BI	109	SER
35	BJ	14	LYS
35	BJ	50	PHE
35	BJ	54	GLN
35	BJ	64	PHE
35	BJ	123	ARG
36	BK	20	LEU
36	BK	126	ILE
37	BL	32	GLU
37	BL	111	ALA
39	BN	14	GLN
39	BN	48	ALA
40	BO	9	ALA
41	BQ	6	LYS
42	BR	25	GLU
42	BR	72	GLN
42	BR	73	ARG
43	BS	44	HIS
43	BS	47	PRO
43	BS	61	GLU
45	BU	9	THR
45	BU	68	PHE
45	BU	83	ALA
48	BZ	44	ALA
48	BZ	46	GLY
48	BZ	50	GLY
48	BZ	52	LYS

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Mol	Chain	Res	Type
49	B1	26	LYS
49	B1	45	HIS
3	AB	18	GLN
4	AC	13	ILE
5	AD	4	LEU
10	AI	24	ASN
10	AI	55	ASP
10	AI	105	ARG
10	AI	107	ALA
12	AK	14	GLN
13	AL	117	GLY
18	AQ	65	PRO
20	AS	12	LEU
25	B5	47	ALA
25	B5	48	ALA
26	BA	49	THR
26	BA	64	VAL
26	BA	135	PRO
26	BA	150	GLY
26	BA	179	GLU
26	BA	217	PRO
26	BA	263	ASP
27	BB	159	LYS
27	BB	185	ASN
28	BC	35	TYR
29	BD	43	ILE
32	BG	8	VAL
32	BG	35	MET
32	BG	112	LYS
33	BH	8	PRO
33	BH	14	ASP
33	BH	22	GLY
34	BI	90	ASN
35	BJ	10	GLU
35	BJ	62	PRO
35	BJ	108	ALA
36	BK	82	MET
36	BK	111	GLU
37	BL	5	LYS
37	BL	85	PRO
38	BM	42	PRO
39	BN	3	ILE

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Mol	Chain	Res	Type
39	BN	16	VAL
39	BN	31	VAL
39	BN	61	ARG
39	BN	74	GLN
39	BN	92	ARG
40	BO	81	GLY
40	BO	86	SER
40	BO	88	GLU
42	BR	18	GLU
42	BR	39	THR
42	BR	68	LYS
42	BR	79	ASP
42	BR	89	GLU
43	BS	36	GLU
44	BT	84	PRO
45	BU	39	GLN
45	BU	64	GLY
45	BU	76	ARG
3	AB	13	VAL
3	AB	122	ASP
5	AD	182	LYS
7	AF	91	ARG
10	AI	25	GLY
13	AL	41	PRO
24	B2	109	ASN
25	B3	82	GLU
27	BB	121	THR
27	BB	123	LYS
27	BB	132	ALA
28	BC	34	ALA
28	BC	41	GLN
28	BC	166	LYS
29	BD	30	VAL
29	BD	104	THR
29	BD	114	ARG
29	BD	147	ARG
30	BE	127	GLN
31	BF	9	VAL
32	BG	17	ALA
32	BG	60	VAL
32	BG	127	SER
33	BH	77	HIS

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Mol	Chain	Res	Type
35	BJ	21	ARG
35	BJ	100	ILE
35	BJ	118	THR
36	BK	7	THR
38	BM	12	THR
39	BN	51	ASN
40	BO	7	VAL
40	BO	27	ARG
41	BQ	61	ASN
44	BT	71	LYS
48	BZ	53	VAL
3	AB	36	LYS
4	AC	65	VAL
4	AC	107	LYS
5	AD	21	LYS
8	AG	148	LYS
9	AH	29	SER
10	AI	103	VAL
12	AK	16	SER
12	AK	87	GLY
13	AL	78	VAL
14	AM	3	ILE
15	AN	44	VAL
20	AS	2	ARG
26	BA	74	PRO
29	BD	130	GLY
30	BE	53	PRO
31	BF	78	VAL
31	BF	85	GLY
32	BG	120	ASP
35	BJ	89	VAL
37	BL	94	TYR
40	BO	57	ARG
40	BO	73	ILE
40	BO	99	VAL
42	BR	76	ARG
46	BW	26	PHE
11	AJ	74	VAL
25	B3	44	PRO
26	BA	148	GLY
29	BD	11	VAL
31	BF	16	GLY

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Mol	Chain	Res	Type
33	BH	62	VAL
35	BJ	24	GLY
36	BK	57	VAL
42	BR	43	ILE
32	BG	23	VAL
33	BH	55	ILE
35	BJ	26	GLY
38	BM	114	GLY
8	AG	80	GLY
25	B5	91	PRO
26	BA	147	PRO
27	BB	92	VAL
28	BC	187	VAL
31	BF	107	GLY
35	BJ	102	GLY
4	AC	54	ILE
12	AK	112	VAL
12	AK	121	ARG
32	BG	48	ILE
33	BH	45	THR
35	BJ	135	ILE
37	BL	29	VAL
39	BN	17	PRO
43	BS	71	ILE
12	AK	114	PRO
25	B5	44	PRO
29	BD	39	VAL
35	BJ	56	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	
3	AB	195/195 (100%)	190 (97%)	5 (3%)	46	66
4	AC	170/170 (100%)	164 (96%)	6 (4%)	36	59
5	AD	172/172 (100%)	170 (99%)	2 (1%)	71	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	AE	112/112 (100%)	108 (96%)	4 (4%)	35	59
7	AF	83/83 (100%)	80 (96%)	3 (4%)	35	59
8	AG	112/112 (100%)	108 (96%)	4 (4%)	35	59
9	AH	103/103 (100%)	100 (97%)	3 (3%)	42	64
10	AI	104/104 (100%)	100 (96%)	4 (4%)	33	57
11	AJ	84/84 (100%)	80 (95%)	4 (5%)	25	51
12	AK	89/89 (100%)	86 (97%)	3 (3%)	37	60
13	AL	85/85 (100%)	82 (96%)	3 (4%)	36	59
14	AM	93/93 (100%)	90 (97%)	3 (3%)	39	61
15	AN	52/52 (100%)	51 (98%)	1 (2%)	57	75
16	AO	74/74 (100%)	74 (100%)	0	100	100
17	AP	63/63 (100%)	60 (95%)	3 (5%)	25	51
18	AQ	73/73 (100%)	72 (99%)	1 (1%)	67	80
19	AR	60/60 (100%)	59 (98%)	1 (2%)	60	78
20	AS	75/75 (100%)	73 (97%)	2 (3%)	44	65
21	AT	63/63 (100%)	56 (89%)	7 (11%)	6	22
24	B2	172/172 (100%)	166 (96%)	6 (4%)	36	59
25	B3	83/83 (100%)	81 (98%)	2 (2%)	49	69
25	B5	83/83 (100%)	80 (96%)	3 (4%)	35	59
26	BA	176/176 (100%)	159 (90%)	17 (10%)	8	27
27	BB	164/164 (100%)	160 (98%)	4 (2%)	49	69
28	BC	163/163 (100%)	152 (93%)	11 (7%)	16	41
29	BD	149/149 (100%)	124 (83%)	25 (17%)	2	12
30	BE	130/130 (100%)	123 (95%)	7 (5%)	22	47
31	BF	114/114 (100%)	112 (98%)	2 (2%)	59	77
32	BG	108/108 (100%)	91 (84%)	17 (16%)	2	14
33	BH	116/116 (100%)	94 (81%)	22 (19%)	1	8
34	BI	103/103 (100%)	97 (94%)	6 (6%)	20	45
35	BJ	99/99 (100%)	74 (75%)	25 (25%)	0	3
36	BK	104/104 (100%)	90 (86%)	14 (14%)	4	17
37	BL	94/94 (100%)	80 (85%)	14 (15%)	3	15

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
38	BM	83/83 (100%)	78 (94%)	5 (6%)	19	44
39	BN	99/99 (100%)	74 (75%)	25 (25%)	0	3
40	BO	89/89 (100%)	70 (79%)	19 (21%)	1	6
41	BQ	89/89 (100%)	76 (85%)	13 (15%)	3	15
42	BR	77/77 (100%)	65 (84%)	12 (16%)	2	14
43	BS	82/82 (100%)	77 (94%)	5 (6%)	18	44
44	BT	78/78 (100%)	75 (96%)	3 (4%)	33	57
45	BU	62/62 (100%)	52 (84%)	10 (16%)	2	13
46	BW	55/55 (100%)	50 (91%)	5 (9%)	9	29
47	BX	47/47 (100%)	45 (96%)	2 (4%)	29	53
48	BZ	24/24 (100%)	18 (75%)	6 (25%)	0	3
49	B1	46/46 (100%)	37 (80%)	9 (20%)	1	8
All	All	4551/4551 (100%)	4203 (92%)	348 (8%)	17	37

All (348) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	AB	23	ASN
3	AB	73	ARG
3	AB	95	TRP
3	AB	185	ILE
3	AB	202	ASN
4	AC	21	TRP
4	AC	26	LYS
4	AC	54	ILE
4	AC	63	ILE
4	AC	100	ILE
4	AC	148	ILE
5	AD	82	LYS
5	AD	205	LYS
6	AE	9	GLU
6	AE	19	ARG
6	AE	25	LYS
6	AE	137	ARG
7	AF	22	ILE
7	AF	49	TYR
7	AF	93	LYS
8	AG	57	GLU

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Mol	Chain	Res	Type
8	AG	78	ARG
8	AG	135	LYS
8	AG	154	ARG
9	AH	26	MET
9	AH	66	GLN
9	AH	116	ARG
10	AI	24	ASN
10	AI	67	LYS
10	AI	112	ARG
10	AI	113	LYS
11	AJ	46	LYS
11	AJ	58	ASN
11	AJ	88	MET
11	AJ	100	ILE
12	AK	30	ILE
12	AK	106	ILE
12	AK	118	ASN
13	AL	30	ARG
13	AL	79	ILE
13	AL	109	ARG
14	AM	2	ARG
14	AM	16	ILE
14	AM	108	ARG
15	AN	52	ARG
17	AP	35	ARG
17	AP	40	ASN
17	AP	67	ILE
18	AQ	35	LYS
19	AR	7	ARG
20	AS	6	LYS
20	AS	86	LYS
21	AT	8	LYS
21	AT	23	ARG
21	AT	31	ILE
21	AT	33	LYS
21	AT	39	GLU
21	AT	53	MET
21	AT	84	LYS
24	B2	49	ILE
24	B2	161	ARG
24	B2	170	ILE
24	B2	171	HIS

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Mol	Chain	Res	Type
24	B2	202	GLN
24	B2	208	ILE
25	B3	4	LYS
25	B3	55	ASP
25	B5	4	LYS
25	B5	51	LYS
25	B5	81	LYS
26	BA	49	THR
26	BA	53	ILE
26	BA	58	LYS
26	BA	65	ASP
26	BA	67	LYS
26	BA	73	ILE
26	BA	94	LEU
26	BA	97	ASP
26	BA	99	GLU
26	BA	115	ILE
26	BA	123	ILE
26	BA	139	THR
26	BA	141	HIS
26	BA	161	VAL
26	BA	183	VAL
26	BA	188	ARG
26	BA	241	LYS
27	BB	13	ARG
27	BB	125	TRP
27	BB	141	ARG
27	BB	160	LYS
28	BC	35	TYR
28	BC	43	THR
28	BC	48	THR
28	BC	49	ARG
28	BC	85	PHE
28	BC	90	GLN
28	BC	99	LYS
28	BC	108	ILE
28	BC	139	LYS
28	BC	166	LYS
28	BC	175	ILE
29	BD	8	LYS
29	BD	9	ASP
29	BD	29	ARG

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Mol	Chain	Res	Type
29	BD	31	GLU
29	BD	32	LYS
29	BD	51	ASN
29	BD	59	ILE
29	BD	63	LYS
29	BD	68	LYS
29	BD	71	LYS
29	BD	77	LYS
29	BD	87	LYS
29	BD	90	LEU
29	BD	91	ARG
29	BD	93	GLU
29	BD	98	PHE
29	BD	111	ARG
29	BD	126	ASN
29	BD	129	MET
29	BD	133	GLU
29	BD	139	GLU
29	BD	144	LYS
29	BD	153	ILE
29	BD	160	LYS
29	BD	166	ARG
30	BE	18	ILE
30	BE	25	ILE
30	BE	37	ASN
30	BE	76	ILE
30	BE	88	LEU
30	BE	120	ILE
30	BE	151	ARG
31	BF	12	LEU
31	BF	143	ILE
32	BG	9	LYS
32	BG	33	ASN
32	BG	34	ILE
32	BG	48	ILE
32	BG	50	LYS
32	BG	54	ILE
32	BG	81	LYS
32	BG	85	ILE
32	BG	91	LYS
32	BG	96	LYS
32	BG	99	LYS

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Mol	Chain	Res	Type
32	BG	104	GLN
32	BG	108	ILE
32	BG	112	LYS
32	BG	121	ILE
32	BG	124	MET
32	BG	135	MET
33	BH	12	LYS
33	BH	14	ASP
33	BH	15	TRP
33	BH	16	TYR
33	BH	23	LYS
33	BH	25	LEU
33	BH	35	ARG
33	BH	36	LEU
33	BH	37	ARG
33	BH	41	LYS
33	BH	53	TYR
33	BH	55	ILE
33	BH	68	LYS
33	BH	72	LYS
33	BH	84	ILE
33	BH	85	LYS
33	BH	108	MET
33	BH	111	LYS
33	BH	113	PRO
33	BH	114	LEU
33	BH	122	LEU
33	BH	123	LYS
34	BI	38	ILE
34	BI	41	ILE
34	BI	51	LYS
34	BI	95	ILE
34	BI	99	ILE
34	BI	116	ILE
35	BJ	13	LYS
35	BJ	18	ARG
35	BJ	27	LEU
35	BJ	29	LYS
35	BJ	30	THR
35	BJ	33	ARG
35	BJ	36	LYS
35	BJ	39	LYS

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Mol	Chain	Res	Type
35	BJ	41	ARG
35	BJ	50	PHE
35	BJ	56	PRO
35	BJ	58	TYR
35	BJ	70	LYS
35	BJ	79	LEU
35	BJ	92	LEU
35	BJ	96	LYS
35	BJ	101	ILE
35	BJ	106	GLU
35	BJ	109	LYS
35	BJ	111	ILE
35	BJ	115	GLU
35	BJ	118	THR
35	BJ	126	ARG
35	BJ	129	LYS
35	BJ	135	ILE
36	BK	5	LYS
36	BK	8	LYS
36	BK	9	PHE
36	BK	18	ARG
36	BK	40	ARG
36	BK	59	ARG
36	BK	63	ILE
36	BK	76	LYS
36	BK	80	VAL
36	BK	92	TRP
36	BK	109	PRO
36	BK	111	GLU
36	BK	112	LEU
36	BK	126	ILE
37	BL	4	ARG
37	BL	5	LYS
37	BL	8	ARG
37	BL	10	LEU
37	BL	12	ARG
37	BL	17	ARG
37	BL	28	LEU
37	BL	42	LYS
37	BL	43	GLU
37	BL	63	ARG
37	BL	64	ARG

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Mol	Chain	Res	Type
37	BL	75	ILE
37	BL	96	ARG
37	BL	97	ILE
38	BM	7	ARG
38	BM	15	ARG
38	BM	35	ILE
38	BM	40	ILE
38	BM	88	LYS
39	BN	5	LYS
39	BN	6	GLN
39	BN	8	GLU
39	BN	9	GLN
39	BN	10	GLU
39	BN	12	MET
39	BN	13	LYS
39	BN	20	ARG
39	BN	21	PRO
39	BN	28	LYS
39	BN	36	LYS
39	BN	38	ARG
39	BN	40	GLN
39	BN	61	ARG
39	BN	62	LYS
39	BN	65	ASN
39	BN	71	ARG
39	BN	74	GLN
39	BN	83	ILE
39	BN	87	ARG
39	BN	88	ARG
39	BN	92	ARG
39	BN	96	LEU
39	BN	102	ARG
39	BN	105	LYS
40	BO	2	ARG
40	BO	4	LYS
40	BO	12	ARG
40	BO	14	LYS
40	BO	21	LYS
40	BO	23	TYR
40	BO	31	TYR
40	BO	40	LYS
40	BO	44	TYR

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Mol	Chain	Res	Type
40	BO	46	TYR
40	BO	50	ARG
40	BO	53	LYS
40	BO	58	GLN
40	BO	60	TRP
40	BO	63	ARG
40	BO	78	PHE
40	BO	102	LYS
40	BO	111	LYS
40	BO	113	LYS
41	BQ	7	HIS
41	BQ	11	ARG
41	BQ	16	LYS
41	BQ	18	ARG
41	BQ	25	ARG
41	BQ	27	LYS
41	BQ	35	ILE
41	BQ	68	ASP
41	BQ	74	ILE
41	BQ	83	LYS
41	BQ	84	ARG
41	BQ	88	ARG
41	BQ	99	ARG
42	BR	36	LYS
42	BR	40	LYS
42	BR	42	GLU
42	BR	51	PHE
42	BR	64	LYS
42	BR	66	LYS
42	BR	68	LYS
42	BR	73	ARG
42	BR	77	ARG
42	BR	82	LYS
42	BR	93	LEU
42	BR	95	PHE
43	BS	4	ILE
43	BS	25	LYS
43	BS	34	ILE
43	BS	57	ILE
43	BS	90	LYS
44	BT	29	ILE
44	BT	34	LYS

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Mol	Chain	Res	Type
44	BT	68	LYS
45	BU	3	LYS
45	BU	4	LYS
45	BU	13	ARG
45	BU	40	ARG
45	BU	43	LYS
45	BU	45	HIS
45	BU	65	LYS
45	BU	69	GLU
45	BU	79	ILE
45	BU	84	GLU
46	BW	37	LEU
46	BW	38	GLN
46	BW	39	GLN
46	BW	42	LEU
46	BW	48	ARG
47	BX	31	ILE
47	BX	58	GLU
48	BZ	31	LYS
48	BZ	36	LYS
48	BZ	41	HIS
48	BZ	48	TYR
48	BZ	52	LYS
48	BZ	54	ILE
49	B1	7	LYS
49	B1	9	LYS
49	B1	24	LYS
49	B1	26	LYS
49	B1	31	GLU
49	B1	32	LYS
49	B1	36	LYS
49	B1	43	ARG
49	B1	50	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (139) such sidechains are listed below:

Mol	Chain	Res	Type
3	AB	14	HIS
3	AB	18	GLN
3	AB	23	ASN
3	AB	88	GLN
3	AB	145	ASN

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Mol	Chain	Res	Type
3	AB	176	ASN
3	AB	202	ASN
4	AC	7	ASN
4	AC	24	ASN
4	AC	40	GLN
4	AC	68	HIS
4	AC	101	ASN
4	AC	139	ASN
4	AC	184	ASN
5	AD	39	GLN
5	AD	53	GLN
5	AD	70	GLN
5	AD	88	ASN
5	AD	99	ASN
5	AD	115	GLN
5	AD	151	GLN
6	AE	60	GLN
6	AE	77	ASN
6	AE	134	ASN
7	AF	14	GLN
7	AF	46	GLN
7	AF	58	HIS
7	AF	81	ASN
8	AG	27	ASN
8	AG	67	ASN
8	AG	121	ASN
9	AH	15	ASN
9	AH	17	GLN
9	AH	20	ASN
9	AH	37	ASN
9	AH	66	GLN
10	AI	24	ASN
10	AI	80	HIS
11	AJ	20	GLN
11	AJ	35	GLN
11	AJ	56	HIS
11	AJ	58	ASN
12	AK	28	ASN
12	AK	118	ASN
13	AL	45	ASN
14	AM	7	ASN
14	AM	13	HIS

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Mol	Chain	Res	Type
16	AO	19	ASN
16	AO	34	GLN
16	AO	36	ASN
17	AP	26	ASN
17	AP	29	ASN
17	AP	40	ASN
18	AQ	49	ASN
19	AR	30	ASN
19	AR	53	GLN
20	AS	51	HIS
20	AS	52	ASN
20	AS	56	HIS
21	AT	12	GLN
21	AT	47	GLN
21	AT	51	ASN
21	AT	54	GLN
21	AT	77	ASN
24	B2	56	GLN
24	B2	57	ASN
24	B2	154	ASN
24	B2	167	ASN
24	B2	202	GLN
26	BA	44	ASN
26	BA	52	HIS
26	BA	127	ASN
26	BA	142	ASN
26	BA	196	ASN
26	BA	231	HIS
26	BA	242	HIS
27	BB	32	ASN
27	BB	36	GLN
27	BB	126	ASN
27	BB	136	ASN
27	BB	149	ASN
27	BB	164	GLN
27	BB	185	ASN
28	BC	9	GLN
28	BC	90	GLN
28	BC	92	HIS
28	BC	97	ASN
28	BC	136	GLN
29	BD	62	GLN

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Mol	Chain	Res	Type
29	BD	126	ASN
30	BE	37	ASN
30	BE	63	GLN
30	BE	127	GLN
30	BE	142	GLN
31	BF	33	GLN
31	BF	73	ASN
32	BG	5	GLN
32	BG	29	GLN
32	BG	33	ASN
32	BG	106	GLN
33	BH	131	ASN
33	BH	138	GLN
35	BJ	38	GLN
35	BJ	54	GLN
35	BJ	99	ASN
35	BJ	104	GLN
36	BK	22	GLN
37	BL	9	GLN
37	BL	23	ASN
38	BM	19	GLN
39	BN	2	ASN
39	BN	9	GLN
39	BN	11	GLN
39	BN	65	ASN
40	BO	19	GLN
40	BO	36	GLN
40	BO	51	GLN
40	BO	71	ASN
40	BO	80	ASN
41	BQ	9	HIS
41	BQ	15	GLN
41	BQ	57	ASN
42	BR	28	ASN
42	BR	48	GLN
42	BR	72	GLN
42	BR	91	GLN
42	BR	92	ASN
44	BT	24	ASN
44	BT	44	HIS
45	BU	45	HIS
46	BW	15	ASN

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Mol	Chain	Res	Type
46	BW	27	ASN
46	BW	36	GLN
46	BW	38	GLN
46	BW	39	GLN
46	BW	58	ASN
47	BX	19	HIS
47	BX	33	HIS
48	BZ	37	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1487/1488 (99%)	248 (16%)	71 (4%)
2	AU	75/76 (98%)	13 (17%)	5 (6%)
2	AV	75/76 (98%)	10 (13%)	4 (5%)
2	AW	75/76 (98%)	13 (17%)	5 (6%)
22	B0	2739/2740 (99%)	541 (19%)	131 (4%)
23	B9	107/108 (99%)	20 (18%)	2 (1%)
All	All	4558/4564 (99%)	845 (18%)	218 (4%)

All (845) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	8	A
1	AA	9	G
1	AA	13	U
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	49	U
1	AA	51	A
1	AA	52	C
1	AA	61	G
1	AA	65	A
1	AA	81	A
1	AA	82	G
1	AA	101	A
1	AA	110	C

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Mol	Chain	Res	Type
1	AA	116	A
1	AA	120	A
1	AA	121	U
1	AA	122	G
1	AA	130	A
1	AA	144	G
1	AA	174	A
1	AA	182	A
1	AA	191	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	204	U
1	AA	244	U
1	AA	245	U
1	AA	247	G
1	AA	251	G
1	AA	252	U
1	AA	266	G
1	AA	267	C
1	AA	275	G
1	AA	280	C
1	AA	281	G
1	AA	289	G
1	AA	306	A
1	AA	328	C
1	AA	329	A
1	AA	330	C
1	AA	332	G
1	AA	346	G
1	AA	352	C
1	AA	353	A
1	AA	367	U
1	AA	368	U
1	AA	397	A
1	AA	398	U
1	AA	404	G
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	421	U
1	AA	424	G

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Mol	Chain	Res	Type
1	AA	428	G
1	AA	429	U
1	AA	431	A
1	AA	437	U
1	AA	438	U
1	AA	449	G
1	AA	450	G
1	AA	461	C
1	AA	462	G
1	AA	482	A
1	AA	483	C
1	AA	484	G
1	AA	485	U
1	AA	486	U
1	AA	497	G
1	AA	498	U
1	AA	499	A
1	AA	500	G
1	AA	508	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	519	C
1	AA	524	G
1	AA	527	G
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	536	C
1	AA	546	A
1	AA	547	A
1	AA	559	A
1	AA	560	A
1	AA	561	U
1	AA	563	A
1	AA	566	G
1	AA	567	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	C

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Mol	Chain	Res	Type
1	AA	596	A
1	AA	606	G
1	AA	607	A
1	AA	688	G
1	AA	701	U
1	AA	702	A
1	AA	704	A
1	AA	718	A
1	AA	719	C
1	AA	721	G
1	AA	722	G
1	AA	723	U
1	AA	749	A
1	AA	753	A
1	AA	754	C
1	AA	755	G
1	AA	777	A
1	AA	793	U
1	AA	813	U
1	AA	815	A
1	AA	816	A
1	AA	817	C
1	AA	818	G
1	AA	819	A
1	AA	820	U
1	AA	821	G
1	AA	828	U
1	AA	839	U
1	AA	841	U
1	AA	871	U
1	AA	872	A
1	AA	873	A
1	AA	874	G
1	AA	885	G
1	AA	889	A
1	AA	890	G
1	AA	891	U
1	AA	914	A
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	945	G

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Mol	Chain	Res	Type
1	AA	960	U
1	AA	961	U
1	AA	966	G
1	AA	969	A
1	AA	972	C
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	979	C
1	AA	980	C
1	AA	982	U
1	AA	983	A
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	994	A
1	AA	1004	A
1	AA	1026	G
1	AA	1031	C
1	AA	1050	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1085	U
1	AA	1086	U
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1108	G
1	AA	1118	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1136	C
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1140	C
1	AA	1158	C

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Mol	Chain	Res	Type
1	AA	1159	U
1	AA	1183	U
1	AA	1184	G
1	AA	1196	A
1	AA	1197	A
1	AA	1201	A
1	AA	1202	U
1	AA	1212	U
1	AA	1224	U
1	AA	1225	A
1	AA	1227	A
1	AA	1236	A
1	AA	1238	A
1	AA	1241	G
1	AA	1256	A
1	AA	1257	A
1	AA	1258	G
1	AA	1268	G
1	AA	1279	G
1	AA	1280	A
1	AA	1281	C
1	AA	1285	A
1	AA	1286	U
1	AA	1287	A
1	AA	1298	U
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	C
1	AA	1303	C
1	AA	1305	G
1	AA	1322	C
1	AA	1323	G
1	AA	1328	C
1	AA	1336	C
1	AA	1337	G
1	AA	1347	G
1	AA	1348	U
1	AA	1362	A
1	AA	1363	A
1	AA	1364	U
1	AA	1365	G

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Mol	Chain	Res	Type
1	AA	1384	C
1	AA	1397	C
1	AA	1400	C
1	AA	1401	G
1	AA	1442	G
1	AA	1443	C
1	AA	1446	A
1	AA	1453	G
1	AA	1468	A
1	AA	1492	A
1	AA	1497	G
1	AA	1499	A
1	AA	1502	A
1	AA	1503	A
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1520	C
1	AA	1529	G
1	AA	1530	G
2	AU	10	G
2	AU	16	U
2	AU	17	U
2	AU	18	G
2	AU	19	G
2	AU	20	G
2	AU	21	A
2	AU	37	G
2	AU	46	G
2	AU	47	U
2	AU	49	C
2	AU	59	U
2	AU	75	C
2	AV	10	G
2	AV	16	U
2	AV	17	U
2	AV	18	G
2	AV	19	G
2	AV	20	G
2	AV	37	G
2	AV	47	U
2	AV	49	C

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Mol	Chain	Res	Type
2	AV	59	U
2	AW	10	G
2	AW	16	U
2	AW	17	U
2	AW	18	G
2	AW	19	G
2	AW	20	G
2	AW	21	A
2	AW	37	G
2	AW	39	U
2	AW	46	G
2	AW	47	U
2	AW	49	C
2	AW	59	U
22	B0	34	U
22	B0	49	A
22	B0	50	U
22	B0	51	G
22	B0	61	C
22	B0	64	A
22	B0	72	U
22	B0	74	A
22	B0	75	G
22	B0	85	G
22	B0	90	U
22	B0	91	A
22	B0	99	U
22	B0	100	U
22	B0	102	U
22	B0	119	A
22	B0	120	U
22	B0	121	G
22	B0	125	A
22	B0	128	C
22	B0	130	C
22	B0	140	C
22	B0	141	G
22	B0	162	U
22	B0	163	C
22	B0	164	C
22	B0	165	A
22	B0	172	A

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Mol	Chain	Res	Type
22	B0	181	A
22	B0	196	A
22	B0	197	A
22	B0	199	A
22	B0	204	A
22	B0	205	G
22	B0	216	A
22	B0	222	A
22	B0	223	A
22	B0	227	A
22	B0	228	C
22	B0	229	C
22	B0	241	A
22	B0	242	G
22	B0	248	G
22	B0	250	G
22	B0	265	A
22	B0	266	G
22	B0	271	G
22	B0	278	A
22	B0	279	A
22	B0	301	G
22	B0	302	C
22	B0	311	A
22	B0	312	G
22	B0	322	A
22	B0	323	C
22	B0	324	A
22	B0	329	G
22	B0	330	A
22	B0	331	C
22	B0	332	A
22	B0	334	C
22	B0	352	A
22	B0	362	A
22	B0	363	G
22	B0	371	A
22	B0	372	G
22	B0	388	G
22	B0	390	U
22	B0	401	A
22	B0	405	U

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Mol	Chain	Res	Type
22	B0	406	G
22	B0	411	G
22	B0	412	A
22	B0	417	C
22	B0	431	U
22	B0	432	A
22	B0	443	A
22	B0	447	A
22	B0	448	U
22	B0	449	A
22	B0	451	U
22	B0	455	C
22	B0	456	C
22	B0	458	G
22	B0	475	C
22	B0	476	G
22	B0	480	A
22	B0	481	G
22	B0	491	G
22	B0	492	A
22	B0	493	G
22	B0	494	G
22	B0	501	A
22	B0	502	A
22	B0	503	A
22	B0	504	A
22	B0	505	A
22	B0	509	C
22	B0	528	A
22	B0	530	G
22	B0	531	C
22	B0	532	A
22	B0	533	G
22	B0	539	G
22	B0	545	U
22	B0	547	A
22	B0	549	G
22	B0	550	C
22	B0	563	G
22	B0	572	A
22	B0	574	A
22	B0	575	A

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Mol	Chain	Res	Type
22	B0	587	C
22	B0	589	U
22	B0	603	A
22	B0	611	C
22	B0	618	G
22	B0	621	A
22	B0	627	A
22	B0	628	G
22	B0	637	A
22	B0	656	G
22	B0	668	A
22	B0	669	G
22	B0	671	C
22	B0	685	A
22	B0	686	U
22	B0	718	A
22	B0	729	G
22	B0	730	A
22	B0	747	U
22	B0	748	G
22	B0	749	A
22	B0	750	A
22	B0	751	A
22	B0	752	A
22	B0	762	U
22	B0	763	G
22	B0	764	A
22	B0	765	C
22	B0	775	G
22	B0	776	G
22	B0	777	G
22	B0	783	A
22	B0	784	G
22	B0	785	G
22	B0	789	A
22	B0	790	U
22	B0	792	A
22	B0	794	A
22	B0	800	A
22	B0	801	G
22	B0	802	A
22	B0	805	G

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Mol	Chain	Res	Type
22	B0	811	U
22	B0	812	C
22	B0	819	A
22	B0	821	A
22	B0	828	U
22	B0	848	C
22	B0	851	C
22	B0	859	G
22	B0	860	U
22	B0	884	U
22	B0	885	C
22	B0	910	A
22	B0	928	A
22	B0	929	U
22	B0	946	C
22	B0	960	A
22	B0	961	C
22	B0	962	G
22	B0	970	U
22	B0	971	G
22	B0	973	A
22	B0	974	G
22	B0	975	A
22	B0	983	A
22	B0	985	C
22	B0	990	A
22	B0	991	C
22	B0	1008	A
22	B0	1009	A
22	B0	1011	G
22	B0	1012	U
22	B0	1013	C
22	B0	1022	G
22	B0	1023	U
22	B0	1024	G
22	B0	1025	G
22	B0	1026	G
22	B0	1044	C
22	B0	1045	C
22	B0	1046	A
22	B0	1047	G
22	B0	1060	U

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Mol	Chain	Res	Type
22	B0	1061	U
22	B0	1062	G
22	B0	1070	A
22	B0	1071	G
22	B0	1083	U
22	B0	1088	A
22	B0	1090	A
22	B0	1110	G
22	B0	1111	A
22	B0	1112	G
22	B0	1126	A
22	B0	1127	A
22	B0	1129	A
22	B0	1131	G
22	B0	1136	G
22	B0	1142	A
22	B0	1143	A
22	B0	1144	A
22	B0	1156	A
22	B0	1157	G
22	B0	1176	U
22	B0	1184	U
22	B0	1186	G
22	B0	1210	G
22	B0	1211	C
22	B0	1212	G
22	B0	1226	A
22	B0	1249	U
22	B0	1252	G
22	B0	1254	A
22	B0	1255	U
22	B0	1256	G
22	B0	1265	A
22	B0	1266	G
22	B0	1272	A
22	B0	1273	U
22	B0	1274	A
22	B0	1276	A
22	B0	1287	A
22	B0	1301	A
22	B0	1303	G
22	B0	1313	U

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Mol	Chain	Res	Type
22	B0	1314	C
22	B0	1321	A
22	B0	1325	U
22	B0	1326	U
22	B0	1329	U
22	B0	1333	G
22	B0	1341	G
22	B0	1343	G
22	B0	1364	G
22	B0	1371	G
22	B0	1380	G
22	B0	1381	G
22	B0	1383	A
22	B0	1385	A
22	B0	1397	U
22	B0	1398	C
22	B0	1411	U
22	B0	1416	G
22	B0	1418	G
22	B0	1423	A
22	B0	1427	A
22	B0	1429	G
22	B0	1445	U
22	B0	1455	U
22	B0	1456	G
22	B0	1466	U
22	B0	1474	U
22	B0	1489	U
22	B0	1492	G
22	B0	1493	A
22	B0	1496	A
22	B0	1498	C
22	B0	1508	C
22	B0	1513	C
22	B0	1536	C
22	B0	1548	A
22	B0	1553	A
22	B0	1566	A
22	B0	1569	A
22	B0	1579	A
22	B0	1593	G
22	B0	1594	U

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Mol	Chain	Res	Type
22	B0	1607	C
22	B0	1609	A
22	B0	1611	C
22	B0	1616	A
22	B0	1618	A
22	B0	1627	G
22	B0	1630	A
22	B0	1635	A
22	B0	1646	C
22	B0	1647	U
22	B0	1648	U
22	B0	1654	A
22	B0	1669	A
22	B0	1682	G
22	B0	1694	C
22	B0	1695	G
22	B0	1698	A
22	B0	1699	G
22	B0	1700	A
22	B0	1732	C
22	B0	1758	U
22	B0	1759	A
22	B0	1760	C
22	B0	1761	C
22	B0	1762	A
22	B0	1763	G
22	B0	1764	C
22	B0	1773	A
22	B0	1780	A
22	B0	1781	U
22	B0	1800	C
22	B0	1801	A
22	B0	1802	A
22	B0	1815	A
22	B0	1816	C
22	B0	1817	G
22	B0	1820	U
22	B0	1821	A
22	B0	1829	A
22	B0	1833	C
22	B0	1839	G
22	B0	1841	U

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Mol	Chain	Res	Type
22	B0	1853	A
22	B0	1870	C
22	B0	1872	A
22	B0	1889	A
22	B0	1901	A
22	B0	1903	G
22	B0	1923	U
22	B0	1927	A
22	B0	1930	G
22	B0	1932	A
22	B0	1937	A
22	B0	1938	A
22	B0	1939	U
22	B0	1940	U
22	B0	1943	U
22	B0	1944	U
22	B0	1955	U
22	B0	1956	U
22	B0	1963	U
22	B0	1964	G
22	B0	1965	C
22	B0	1966	A
22	B0	1967	C
22	B0	1971	U
22	B0	1972	G
22	B0	1977	A
22	B0	1981	A
22	B0	1993	U
22	B0	1996	C
22	B0	1997	C
22	B0	2006	C
22	B0	2031	A
22	B0	2032	G
22	B0	2033	A
22	B0	2034	U
22	B0	2036	C
22	B0	2050	C
22	B0	2055	C
22	B0	2059	A
22	B0	2060	A
22	B0	2068	U
22	B0	2069	G

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Mol	Chain	Res	Type
22	B0	2075	U
22	B0	2076	U
22	B0	2092	U
22	B0	2093	G
22	B0	2110	G
22	B0	2111	U
22	B0	2115	G
22	B0	2116	G
22	B0	2117	A
22	B0	2118	U
22	B0	2120	G
22	B0	2121	G
22	B0	2122	U
22	B0	2123	G
22	B0	2124	G
22	B0	2125	G
22	B0	2126	A
22	B0	2127	G
22	B0	2128	G
22	B0	2130	U
22	B0	2131	U
22	B0	2132	U
22	B0	2134	A
22	B0	2135	A
22	B0	2136	G
22	B0	2138	G
22	B0	2139	U
22	B0	2140	G
22	B0	2144	G
22	B0	2145	C
22	B0	2146	C
22	B0	2147	A
22	B0	2148	G
22	B0	2150	C
22	B0	2151	U
22	B0	2152	G
22	B0	2153	C
22	B0	2154	A
22	B0	2155	U
22	B0	2156	G
22	B0	2157	G
22	B0	2158	A

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Mol	Chain	Res	Type
22	B0	2159	G
22	B0	2161	C
22	B0	2162	G
22	B0	2163	G
22	B0	2164	C
22	B0	2165	C
22	B0	2166	U
22	B0	2167	U
22	B0	2168	G
22	B0	2170	A
22	B0	2171	A
22	B0	2176	A
22	B0	2177	C
22	B0	2178	C
22	B0	2179	C
22	B0	2180	U
22	B0	2181	U
22	B0	2198	A
22	B0	2199	A
22	B0	2226	C
22	B0	2227	A
22	B0	2228	G
22	B0	2238	G
22	B0	2239	G
22	B0	2243	U
22	B0	2244	U
22	B0	2245	U
22	B0	2250	G
22	B0	2258	C
22	B0	2266	A
22	B0	2267	A
22	B0	2282	G
22	B0	2283	C
22	B0	2288	A
22	B0	2297	A
22	B0	2304	G
22	B0	2310	C
22	B0	2311	A
22	B0	2320	U
22	B0	2321	U
22	B0	2328	A
22	B0	2334	U

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Mol	Chain	Res	Type
22	B0	2335	A
22	B0	2337	G
22	B0	2345	G
22	B0	2346	A
22	B0	2347	C
22	B0	2356	U
22	B0	2357	G
22	B0	2358	A
22	B0	2359	C
22	B0	2385	C
22	B0	2400	G
22	B0	2405	G
22	B0	2406	A
22	B0	2425	A
22	B0	2428	G
22	B0	2433	A
22	B0	2434	A
22	B0	2439	A
22	B0	2440	C
22	B0	2441	U
22	B0	2447	G
22	B0	2448	A
22	B0	2450	A
22	B0	2459	A
22	B0	2476	A
22	B0	2478	A
22	B0	2479	U
22	B0	2491	U
22	B0	2492	U
22	B0	2495	G
22	B0	2497	A
22	B0	2498	C
22	B0	2502	G
22	B0	2503	A
22	B0	2504	U
22	B0	2505	G
22	B0	2506	U
22	B0	2518	A
22	B0	2519	U
22	B0	2543	G
22	B0	2547	A
22	B0	2554	U

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Mol	Chain	Res	Type
22	B0	2557	G
22	B0	2566	A
22	B0	2567	G
22	B0	2578	G
22	B0	2582	G
22	B0	2586	U
22	B0	2602	A
22	B0	2603	G
22	B0	2613	U
22	B0	2614	A
22	B0	2615	U
22	B0	2627	G
22	B0	2631	G
22	B0	2639	A
22	B0	2645	G
22	B0	2654	A
22	B0	2655	G
22	B0	2667	C
22	B0	2678	C
22	B0	2681	C
22	B0	2682	A
22	B0	2688	G
22	B0	2712	C
22	B0	2713	U
22	B0	2732	G
22	B0	2750	A
22	B0	2751	G
22	B0	2756	U
22	B0	2757	A
22	B0	2765	A
22	B0	2766	A
22	B0	2776	A
22	B0	2777	G
22	B0	2779	U
22	B0	2780	G
22	B0	2781	A
22	B0	2808	G
22	B0	2809	A
22	B0	2810	A
22	B0	2811	G
22	B0	2820	A
22	B0	2823	A

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Mol	Chain	Res	Type
22	B0	2833	U
22	B0	2836	U
22	B0	2850	A
22	B0	2856	A
22	B0	2866	U
22	B0	2867	G
22	B0	2868	A
22	B0	2873	A
22	B0	2880	C
23	B9	13	G
23	B9	14	U
23	B9	15	A
23	B9	16	G
23	B9	17	C
23	B9	25	U
23	B9	26	C
23	B9	29	A
23	B9	30	C
23	B9	35	C
23	B9	42	C
23	B9	44	G
23	B9	57	A
23	B9	58	A
23	B9	67	G
23	B9	77	U
23	B9	85	G
23	B9	90	C
23	B9	100	G
23	B9	109	A

All (218) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	A
1	AA	47	C
1	AA	48	C
1	AA	50	A
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	129	A
1	AA	181	A

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Mol	Chain	Res	Type
1	AA	197	A
1	AA	243	A
1	AA	250	A
1	AA	251	G
1	AA	266	G
1	AA	274	A
1	AA	279	A
1	AA	328	C
1	AA	366	A
1	AA	428	G
1	AA	436	C
1	AA	449	G
1	AA	481	G
1	AA	482	A
1	AA	483	C
1	AA	496	A
1	AA	499	A
1	AA	508	U
1	AA	509	A
1	AA	531	U
1	AA	533	A
1	AA	535	A
1	AA	559	A
1	AA	560	A
1	AA	566	G
1	AA	575	G
1	AA	595	A
1	AA	606	G
1	AA	687	A
1	AA	701	U
1	AA	748	G
1	AA	792	A
1	AA	812	G
1	AA	817	C
1	AA	872	A
1	AA	873	A
1	AA	890	G
1	AA	913	A
1	AA	960	U
1	AA	975	A
1	AA	990	C
1	AA	992	U

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Mol	Chain	Res	Type
1	AA	1049	U
1	AA	1064	G
1	AA	1065	U
1	AA	1085	U
1	AA	1100	C
1	AA	1101	A
1	AA	1157	A
1	AA	1182	G
1	AA	1196	A
1	AA	1226	C
1	AA	1256	A
1	AA	1257	A
1	AA	1285	A
1	AA	1302	C
1	AA	1322	C
1	AA	1346	A
1	AA	1347	G
1	AA	1383	C
1	AA	1498	U
1	AA	1528	U
2	AU	16	U
2	AU	18	G
2	AU	19	G
2	AU	46	G
2	AU	58	A
2	AV	16	U
2	AV	18	G
2	AV	19	G
2	AV	58	A
2	AW	16	U
2	AW	18	G
2	AW	19	G
2	AW	46	G
2	AW	58	A
22	B0	50	U
22	B0	99	U
22	B0	120	U
22	B0	165	A
22	B0	215	G
22	B0	221	A
22	B0	226	A
22	B0	265	A

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Mol	Chain	Res	Type
22	B0	276	U
22	B0	301	G
22	B0	321	U
22	B0	362	A
22	B0	371	A
22	B0	387	U
22	B0	474	G
22	B0	490	C
22	B0	501	A
22	B0	503	A
22	B0	508	A
22	B0	527	C
22	B0	529	A
22	B0	531	C
22	B0	571	U
22	B0	620	G
22	B0	627	A
22	B0	655	A
22	B0	750	A
22	B0	762	U
22	B0	764	A
22	B0	776	G
22	B0	784	G
22	B0	800	A
22	B0	801	G
22	B0	811	U
22	B0	846	U
22	B0	858	G
22	B0	859	G
22	B0	926	G
22	B0	928	A
22	B0	974	G
22	B0	982	C
22	B0	989	G
22	B0	990	A
22	B0	1011	G
22	B0	1060	U
22	B0	1061	U
22	B0	1110	G
22	B0	1111	A
22	B0	1141	U
22	B0	1142	A

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Mol	Chain	Res	Type
22	B0	1143	A
22	B0	1211	C
22	B0	1225	G
22	B0	1248	G
22	B0	1273	U
22	B0	1275	A
22	B0	1286	A
22	B0	1300	G
22	B0	1302	A
22	B0	1342	A
22	B0	1397	U
22	B0	1410	G
22	B0	1568	G
22	B0	1593	G
22	B0	1608	A
22	B0	1615	C
22	B0	1646	C
22	B0	1653	G
22	B0	1668	A
22	B0	1693	U
22	B0	1698	A
22	B0	1779	U
22	B0	1799	G
22	B0	1800	C
22	B0	1815	A
22	B0	1828	G
22	B0	1922	G
22	B0	1929	G
22	B0	1937	A
22	B0	1943	U
22	B0	1964	G
22	B0	1992	G
22	B0	1996	C
22	B0	2033	A
22	B0	2035	G
22	B0	2049	G
22	B0	2058	A
22	B0	2059	A
22	B0	2075	U
22	B0	2109	U
22	B0	2120	G
22	B0	2122	U

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Mol	Chain	Res	Type
22	B0	2123	G
22	B0	2137	U
22	B0	2138	G
22	B0	2143	C
22	B0	2154	A
22	B0	2157	G
22	B0	2161	C
22	B0	2164	C
22	B0	2198	A
22	B0	2225	A
22	B0	2238	G
22	B0	2243	U
22	B0	2249	U
22	B0	2250	G
22	B0	2282	G
22	B0	2287	A
22	B0	2296	U
22	B0	2319	G
22	B0	2333	A
22	B0	2336	A
22	B0	2345	G
22	B0	2357	G
22	B0	2433	A
22	B0	2447	G
22	B0	2458	G
22	B0	2490	G
22	B0	2517	C
22	B0	2581	G
22	B0	2614	A
22	B0	2644	G
22	B0	2655	G
22	B0	2756	U
22	B0	2776	A
22	B0	2778	A
22	B0	2779	U
22	B0	2819	G
22	B0	2832	U
22	B0	2835	A
22	B0	2849	U
23	B9	16	G
23	B9	66	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
25	B3	6
26	BA	5
25	B5	4
27	BB	4
42	BR	4
24	B2	2
3	AB	2
31	BF	2
1	AA	2
28	BC	1
29	BD	1
14	AM	1
43	BS	1
32	BG	1
37	BL	1
40	BO	1
35	BJ	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B5	52:THR	C	53:GLU	N	10.02
1	BA	60:ALA	C	61:TYR	N	9.99
1	B5	50:GLU	C	51:LYS	N	9.70
1	BB	167:ASN	C	168:GLU	N	8.31
1	BC	96:VAL	C	97:ASN	N	7.51
1	B3	48:ALA	C	49:GLU	N	7.47
1	BB	114:LYS	C	115:GLY	N	7.07
1	B3	52:THR	C	53:GLU	N	6.65
1	BA	197:ALA	C	198:GLU	N	6.65
1	B3	53:GLU	C	54:PHE	N	6.20
1	B5	51:LYS	C	52:THR	N	5.90
1	B3	46:GLU	C	47:ALA	N	5.72
1	BA	121:ALA	C	122:ALA	N	5.27
1	BD	28:PRO	C	29:ARG	N	4.93
1	B2	65:PRO	C	66:HIS	N	4.89
1	BB	101:PHE	C	102:ALA	N	4.84
1	B3	51:LYS	C	52:THR	N	4.52
1	AB	156:LEU	C	157:PRO	N	4.46
1	B3	50:GLU	C	51:LYS	N	4.37
1	AM	97:ARG	C	98:GLY	N	4.33
1	BF	40:THR	C	41:LYS	N	4.33
1	BS	84:PHE	C	85:ARG	N	4.25
1	B5	53:GLU	C	54:PHE	N	4.22
1	BG	72:THR	C	73:PRO	N	4.19
1	B2	158:GLY	C	159:GLN	N	4.17
1	BL	17:ARG	C	18:GLN	N	4.13
1	BA	203:VAL	C	204:LEU	N	4.06
1	BA	218:THR	C	219:VAL	N	3.93
1	BB	30:GLU	C	31:ALA	N	3.89
1	AB	95:TRP	C	96:LEU	N	3.79
1	BR	55:VAL	C	56:GLU	N	3.58
1	BR	87:LEU	C	88:LYS	N	3.48
1	BO	48:ASP	C	49:ARG	N	3.44
1	BR	56:GLU	C	57:VAL	N	3.39
1	BJ	73:ILE	C	74:THR	N	2.98
1	BR	80:TRP	C	81:LYS	N	2.91
1	BF	58:LEU	C	59:ALA	N	2.86
1	AA	545:C	O3'	546:A	P	1.90
1	AA	424:G	O3'	425:G	P	1.86

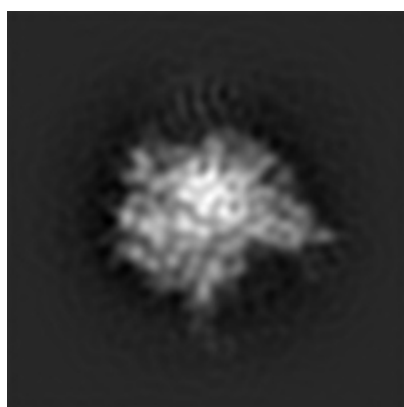
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1143. These allow visual inspection of the internal detail of the map and identification of artifacts.

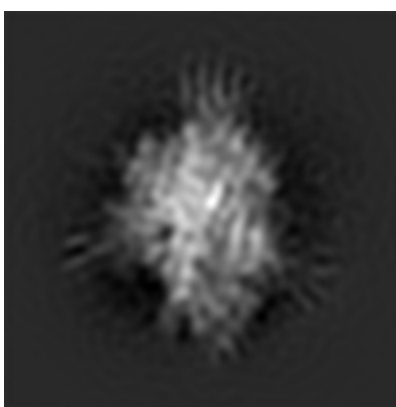
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

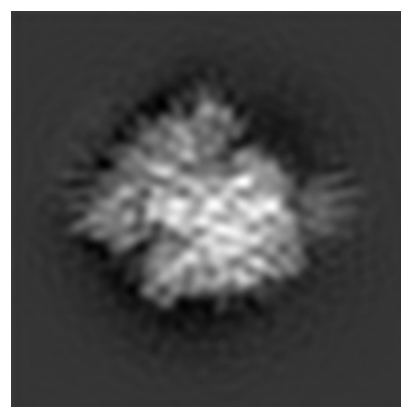
6.1.1 Primary map



X



Y

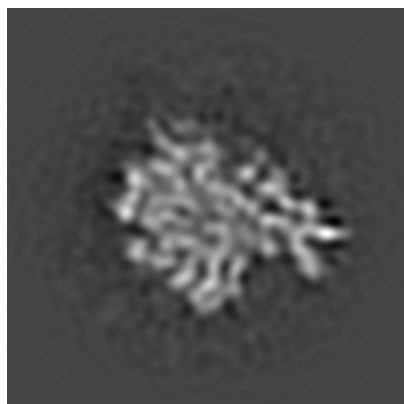


Z

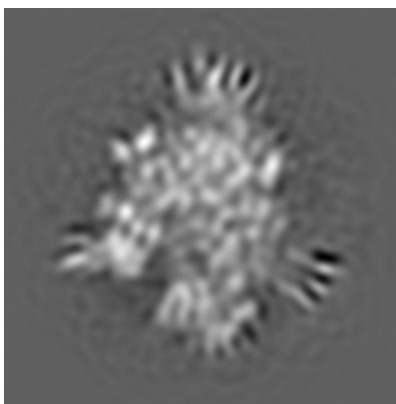
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

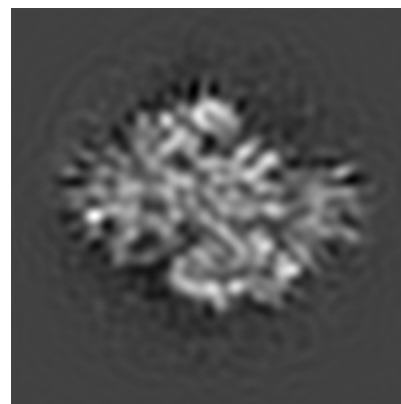
6.2.1 Primary map



X Index: 60



Y Index: 60

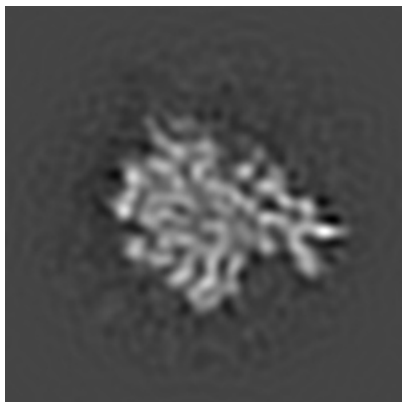


Z Index: 60

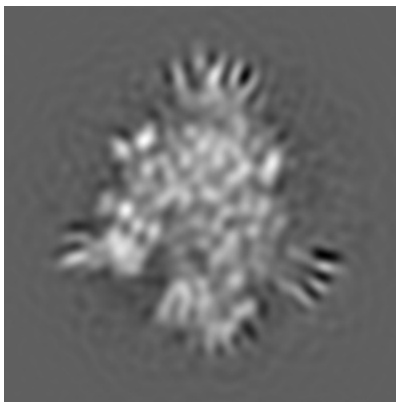
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 60



Y Index: 60

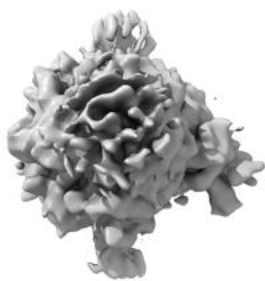


Z Index: 55

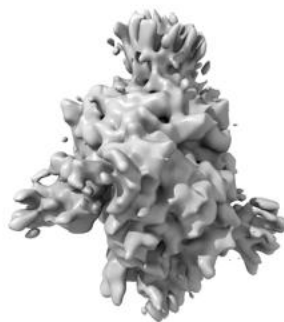
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

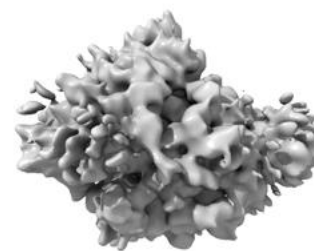
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 46.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

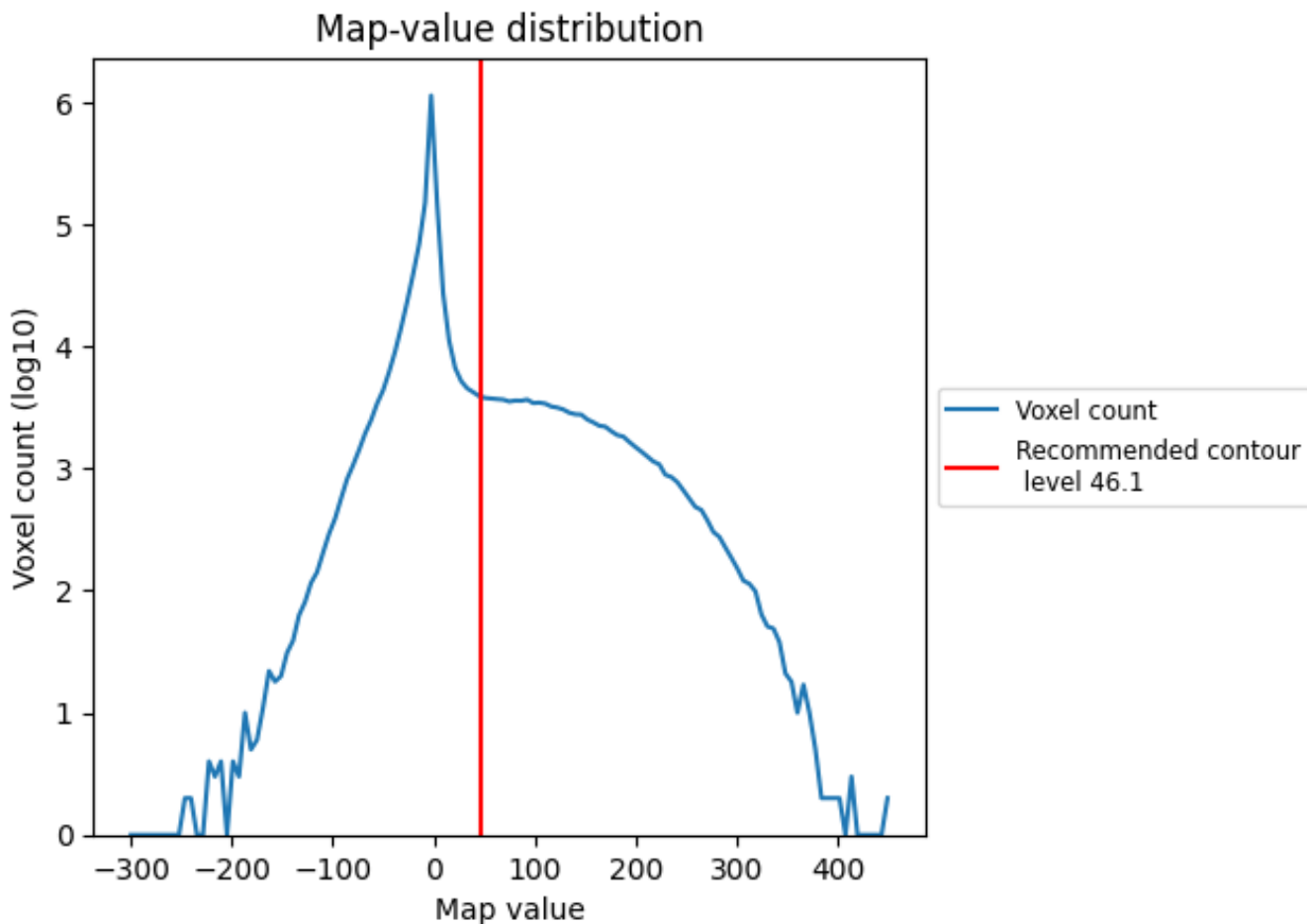
6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

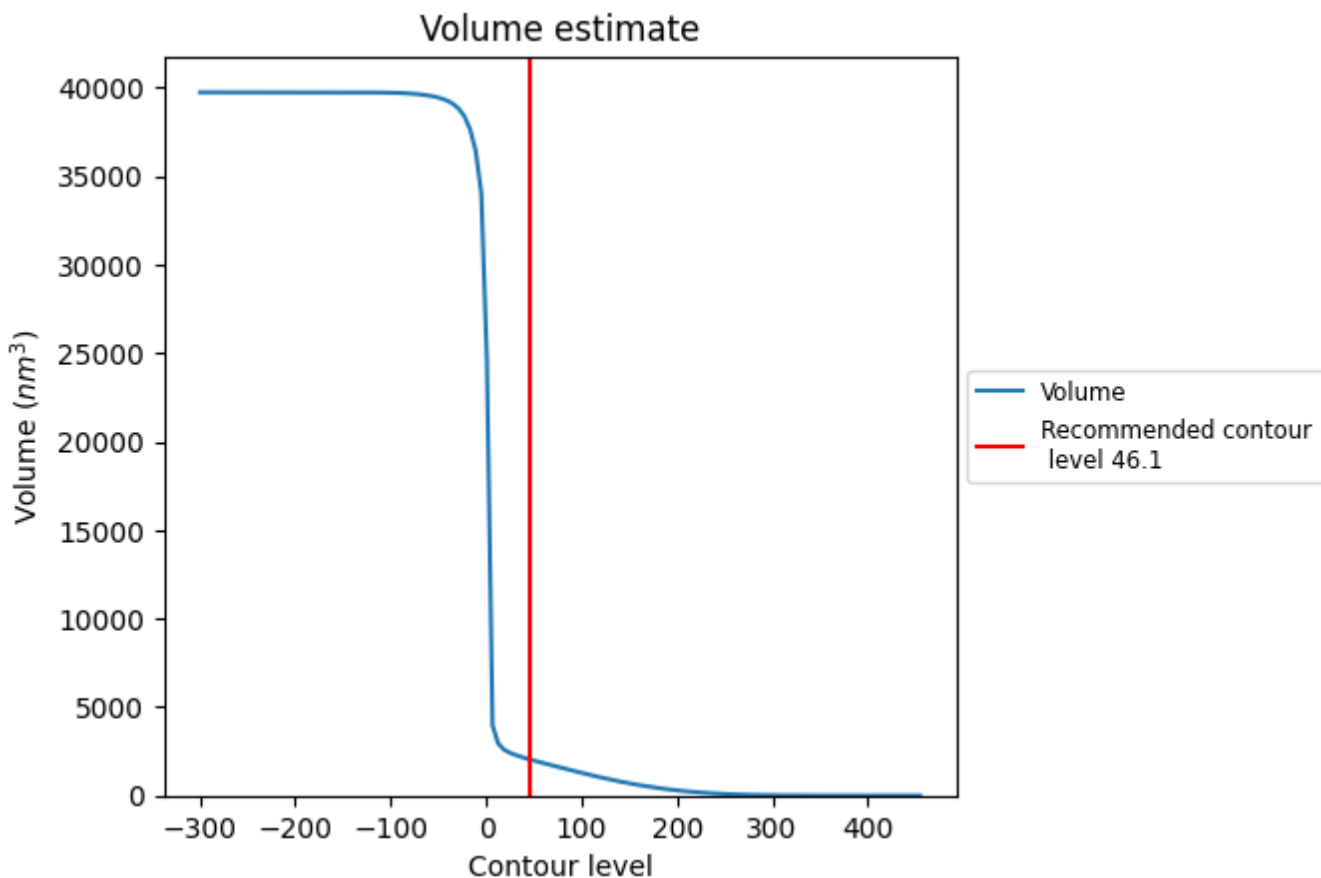
This section contains the results of statistical analysis of the map.

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.

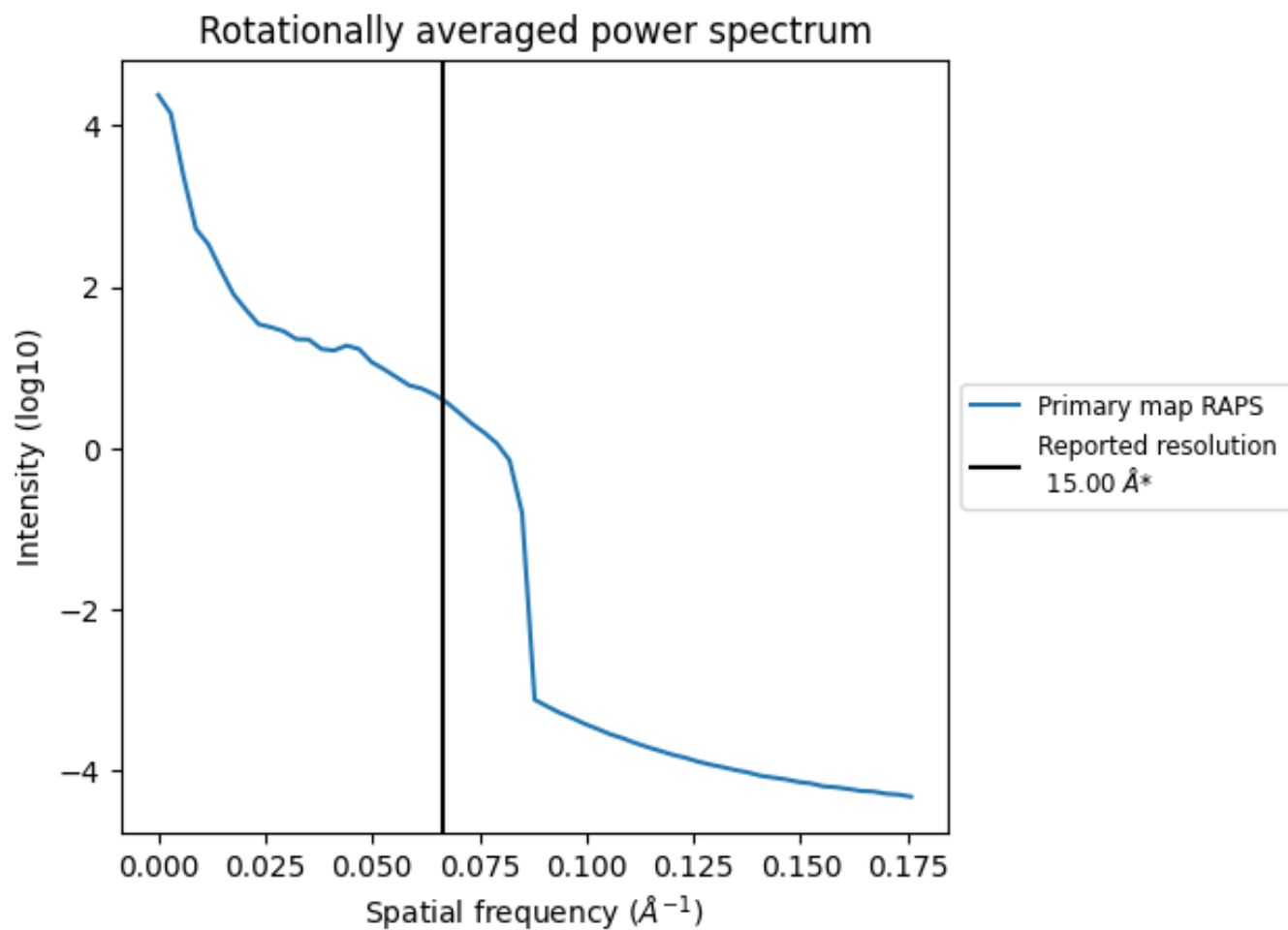
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2036 nm³; this corresponds to an approximate mass of 1839 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 0.067 Å⁻¹

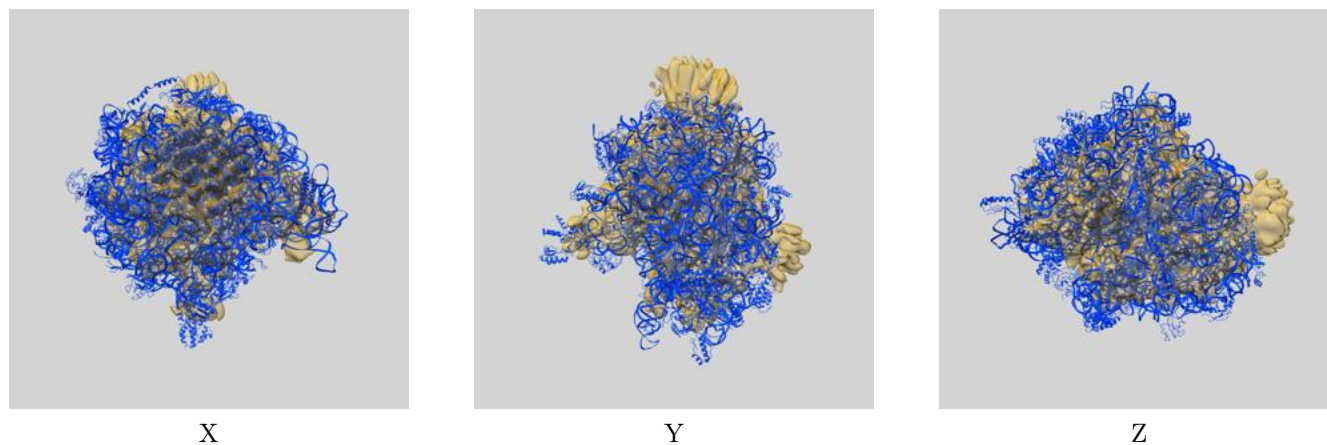
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

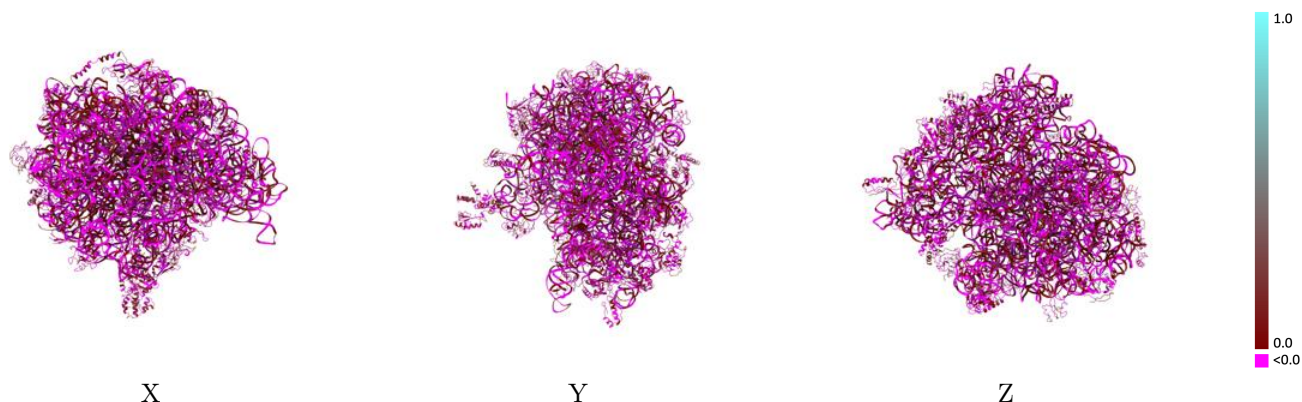
This section contains information regarding the fit between EMDB map EMD-1143 and PDB model 4V4W. Per-residue inclusion information can be found in section [3](#) on page [13](#).

9.1 Map-model overlay [i](#)



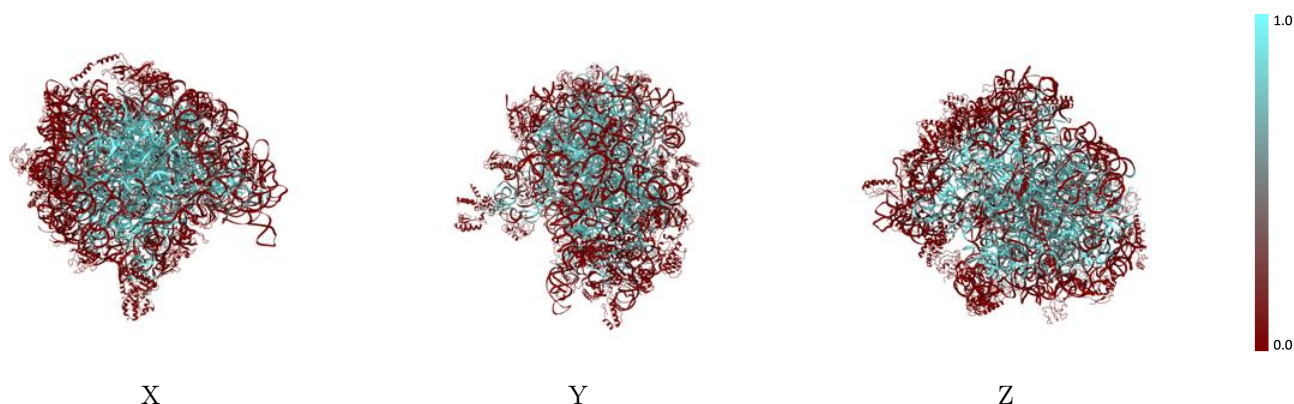
The images above show the 3D surface view of the map at the recommended contour level 46.1 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



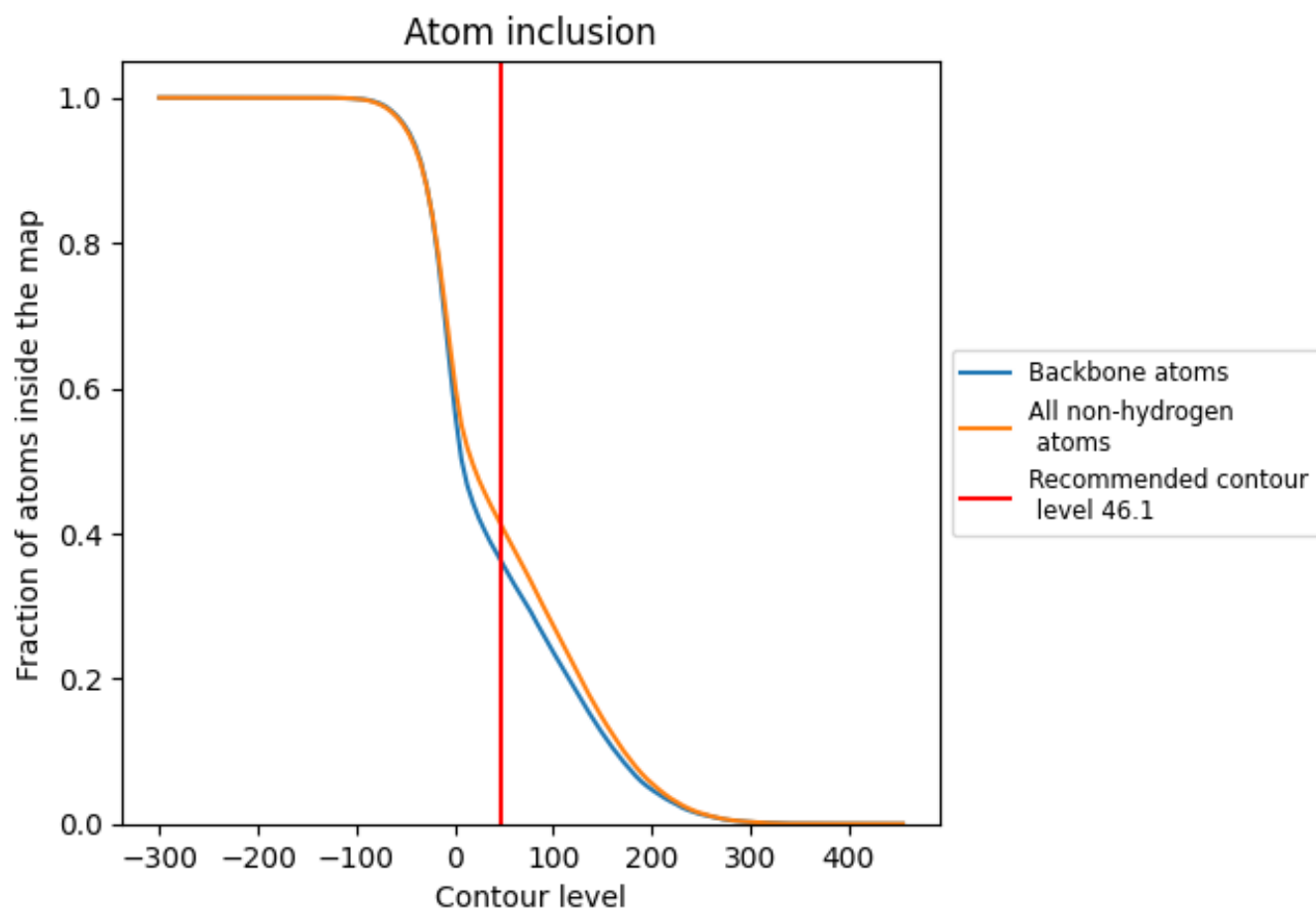
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)



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 (46.1).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 36% of all backbone atoms, 41% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary





































The table lists the average atom inclusion at the recommended contour level (46.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4138	 -0.0040
AA	 0.4810	 -0.0010
AB	 0.0314	 -0.0070
AC	 0.1039	 -0.0250
AD	 0.0095	 0.0000
AE	 0.1214	 0.0140
AF	 0.0223	 -0.0130
AG	 0.0755	 -0.0370
AH	 0.0011	 -0.0130
AI	 0.2080	 0.0060
AJ	 0.2112	 0.0220
AK	 0.2565	 -0.0240
AL	 0.7141	 0.0080
AM	 0.1535	 0.0250
AN	 0.0000	 -0.0260
AO	 0.3141	 -0.0010
AP	 0.0117	 -0.0280
AQ	 0.1891	 0.0050
AR	 0.2686	 -0.0110
AS	 0.0486	 0.0110
AT	 0.2098	 -0.0150
AU	 0.5191	 0.0000
AV	 0.7417	 -0.0040
AW	 0.6264	 0.0160
B0	 0.5457	 -0.0060
B1	 0.0264	 -0.0240
B2	 0.0289	 -0.0080
B3	 0.2218	 0.0300
B5	 0.0403	 -0.0170
B9	 0.0567	 -0.0150
BA	 0.2171	 -0.0230
BB	 0.2594	 0.0080
BC	 0.3022	 0.0060
BD	 0.0588	 -0.0130
BE	 0.0553	 -0.0070



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Chain	Atom inclusion	Q-score
BF	 0.0283	 -0.0110
BG	 0.0139	 0.0070
BH	 0.1573	 -0.0050
BI	 0.5635	 -0.0000
BJ	 0.3778	 0.0150
BK	 0.4910	 -0.0190
BL	 0.2769	 0.0090
BM	 0.1030	 0.0080
BN	 0.1644	 -0.0370
BO	 0.4276	 0.0230
BQ	 0.4328	 -0.0150
BR	 0.4567	 0.0160
BS	 0.0467	 -0.0280
BT	 0.0678	 0.0110
BU	 0.3107	 -0.0010
BW	 0.1946	 0.0080
BX	 0.0378	 0.0030
BZ	 0.0000	 -0.0130