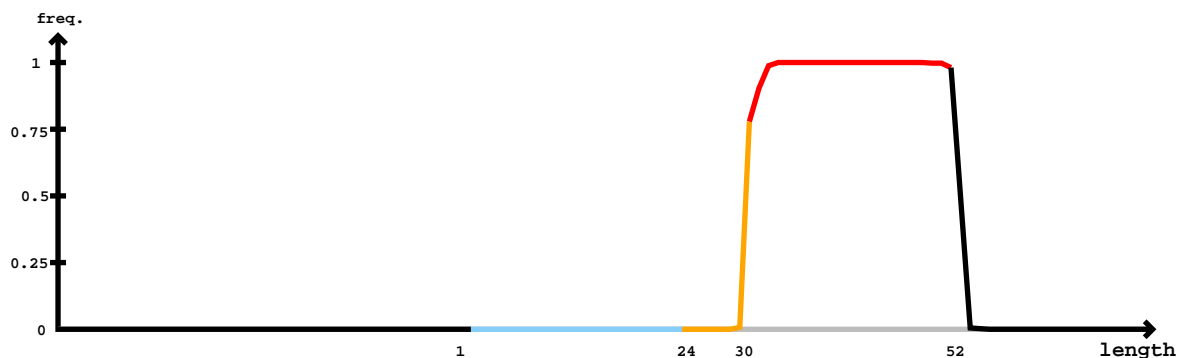


The diagram illustrates a segment of a DNA double helix. Two sugar-phosphate backbones are shown as blue circles, connected by horizontal lines representing phosphate groups. The top strand runs from left to right, while the bottom strand runs from right to left, indicating they are antipparallel. Between the strands, vertical lines represent hydrogen bonds connecting complementary nitrogenous bases. The bases are color-coded: red for Adenine (A), yellow for Thymine (T), green for Guanine (G), and blue for Cytosine (C). The sequence of the top strand (left to right) is A-T-G-C-G-U-U-C-U-U-U-U-U-A. The sequence of the bottom strand (right to left) is T-A-C-G-C-A-A-G-G-A-A-A-A-T. This shows perfect base pairing: A pairs with T (two hydrogen bonds), G pairs with C (three hydrogen bonds), and U pairs with A (two hydrogen bonds).



5'	uuuugaaa <u>uucaagcucagggaacc</u> aucgugcauu <u>aaccug-ccaggcg</u> uu <u>cucuuuuuccucucg</u> ccgcaaaaaaaggaacgcggaucg	-3'	exp	
	((((((((.....)))))).((((((((((((((((((((((((((.....))))))))))))))))))..))))))))))))))..)).	reads	mm	sample
	.....Caaaaaaaggaacgcccugauc.....	1	1	s05
	.....Caaaaaaaggaacgcccugaucg.....	17	1	s05
	.....aaaaaaaggaacAccugaucg.....	1	1	s05
	.....Caaaaaaaggaacgcccugaucg.....	3	1	s11
	.....Caaaaaaaggaacgcccugauc.....	4	1	s02
	.....Caaaaaaaggaacgcccugaucg.....	76	1	s02
	.....aaaaaaaggaacgccugU.....	1	1	s02
	.....aaaaaaaggGacgcccugaucg.....	1	1	s02
	.....Caaaaaaaggaacgcccugaucg.....	3	1	s02
	.....aaaaaaaggaacgcccugaucU.....	1	1	s02
	.....aaaaaaaggaacAccugaucg.....	2	1	s02
	.....aaaaaaaggaacgcccugaucA.....	5	1	s02
	.....aaaaaaaggaacgcccugaucg.....	4	0	s02
	.....aaaaaaaggaacAccugaucg.....	3	1	s02
	.....aaaaaaaggaacgcccugaucg.....	11	0	s02
	.....aaaaaaaggaacgcccugaucA.....	3	1	s02
	.....Caaaaaaaggaacgcccugaucg.....	55	1	s03
	.....aaaaaaaggaacgcccugaucg.....	1	0	s03
	.....aaaaaaaggaacgcccugaucg.....	1	0	s03
	.....aaaaaaaggaacgcccugaucg.....	2	0	s03
	.....caaaaaaaggaacgcccugaucA.....	2	1	s10
	.....Caaaaaaaggaacgcccugauc.....	2	1	s10
	.....Caaaaaaaggaacgcccugaucg.....	83	1	s10
	.....aaaaaaaggaacgcccugaucg.....	3	0	s10
	.....aaaaaaaggaacgcccugaucg.....	16	0	s10
	.....Caaaaaaaggaacgcccugaucg.....	5	1	s10
	.....aaaaaaaggGacgcccugaucg.....	2	1	s10
	.....aaaaaaaggaacgcccugaucg.....	1	0	s10
	.....Caaaaaaaggaacgcccugaucg.....	1	1	s14

Star

Mature

uuuugaaaaucaagcucaggaaccacugcugcauuuaccugccaggcgguucucuuuuuccucucgcccgaaaaaaaaggaacgccugaucgcagguuaaucgugaauaggc

.....Caaaaaaaggaacgccugaucg.....	20	1	s19
.....aaaaaaaggaacgccugaucg.....	1	0	s19
.....aaaaaaaggaacgccugaucg.....	2	0	s19
.....aaaaaggaaUgccugaucgca.....	1	1	s19
.....Caaaaaaaggaacgccugaucg.....	21	1	s13
.....Caaaaaaaggaacgccugaucg.....	2	1	s13
.....aaaaaaaggaacgccugaucg.....	2	0	s13
.....aaaaaaaggaacgccugGucg.....	1	1	s13
.....Caaaaaggaacgccugaucg.....	1	1	s13
.....aaaaaaaggaacgccugaucA.....	2	1	s13
.....aaaaaaaggaacgccugaucg.....	3	0	s13
.....Uaaaaaaaggaacgccugaucg.....	1	1	s07
.....aaaaaaaggaacgccugaucg.....	1	0	s07
.....aaaaaaaggaacgccugaucg.....	1	0	s07
.....aaaaaaaggaacgccugaucA.....	3	1	s07
.....Caaaaaaaggaacgccugaucg.....	16	1	s09
.....aaaaaaaggaacgccugUucg.....	1	1	s09
.....aaaaaaaggaacgccugaucg.....	1	0	s09
.....aaaaaaaggaacgccugaucg.....	1	0	s09
.....Caaaaaaaggaacgccugaucg.....	1	1	s09
.....aaaaaaaggaacgccugaucA.....	1	1	s09
.....aaaaaaaggaacgccugaucg.....	1	0	s09
.....aaaaaaaggaacgccugaucgU.....	1	1	s09
.....aaaaaggaacgccugaucg.....	1	0	s09
.....Caaaaaaaggaacgccugaucg.....	15	1	s12
.....aaaaaaaggaacgccugaucA.....	2	1	s12
.....aaaaaggaacgccugaucA.....	2	1	s12
.....aaaaaggaacgccugaucgcag.....	1	0	s12