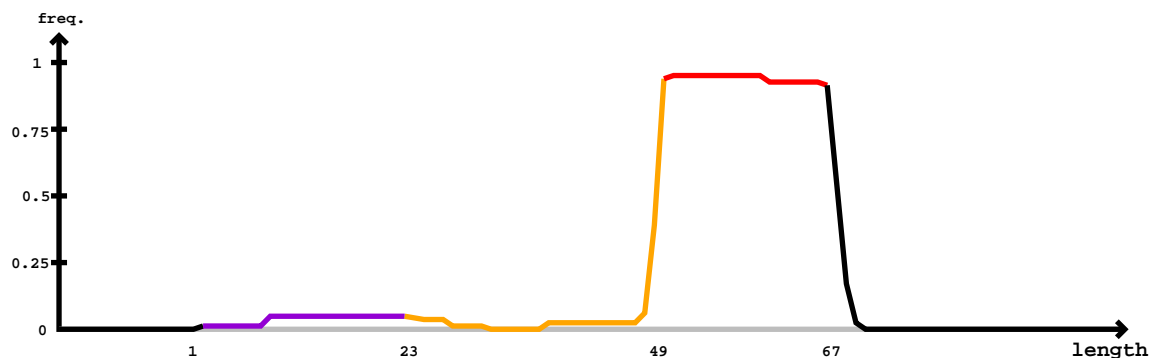


The diagram illustrates a segment of a DNA double helix. Two antiparallel sugar-phosphate backbones are shown as grey zigzag lines. The left strand runs from 5' at the top to 3' at the bottom, while the right strand runs from 3' at the top to 5' at the bottom. Nitrogenous bases are represented by colored circles: red for purines (Adenine and Guanine) and blue for pyrimidines (Thymine and Cytosine). The bases are connected to their respective sugars by magenta vertical lines representing hydrogen bonds. The sequence of bases on the left strand (top to bottom) is A-T-G-C-A-G, and on the right strand (top to bottom) it is T-A-C-G-U-A. The complementary base pairing is clearly visible: Adenine pairs with Thymine (two hydrogen bonds), and Guanine pairs with Cytosine (three hydrogen bonds).



Mature

[illegible]

Star

Mature

auauacuauaggauuauccccagagucacuaquuuuuucucaguuuacaccaagaaaaaaaagugacaagugggauuuuccauuuuuuaaaccacccaguuuuuuugc

.....agugacaagugggauuu.....	5	0	s07
.....agugacaagugggauuucU.....	1	1	s07
.....cgagucacuaquuuuuuc.....	2	0	s13
.....agugacaagugggauuuc.....	1	0	s13
.....caagaaaaaaaagugacaagug.....	1	0	s12
.....aagugacaagugggauuu.....	3	0	s12
.....agugacaagugggauuu.....	1	0	s12
.....agugacaagugggauuu.....	1	0	s09
.....aagugacaagugggauuu.....	3	0	s14
.....agugacaagugggauuu.....	1	0	s14
.....agugacaagugggauuucc.....	1	0	s14
.....agugacaagugggauuu.....	2	0	s08
.....agugacaagugggauuucc.....	1	0	s08
.....aagugacaagugggauuu.....	8	0	s19
.....agugacaagugggauuu.....	2	0	s19
.....agugacaagugggauuuc.....	1	0	s19
.....agugacaagugggauuuCA.....	1	1	s19