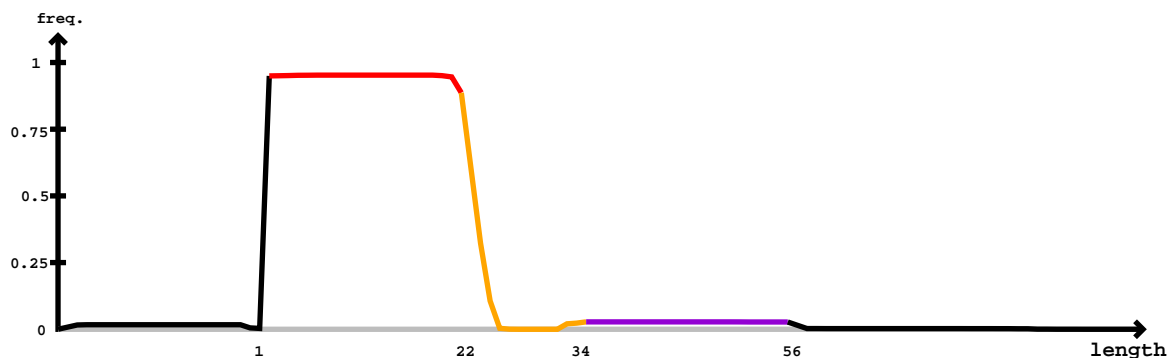


The diagram illustrates a segment of a double-stranded DNA molecule. The top strand runs from left to right, starting at its 5' end with a phosphate group (represented by a red circle) attached to an adenine (A) nucleotide. The sequence of bases in the top strand is A-U-C-U-U-G-A-C-A-G-U-G-G-A-A-U-U. The bottom strand runs from right to left, starting at its 3' end with a uracil (U) nucleotide. The sequence of bases in the bottom strand is U-A-G-A-A-U-U-G-U-U-C-U-A-C-C-A-U-U-A-A. Complementary base pairs are connected by hydrogen bonds, represented by horizontal lines: A pairs with U (two lines), C pairs with G (three lines), and G pairs with C (three lines). The sugar-phosphate backbone is shown as a series of circles representing deoxyribose sugars and phosphate groups.



Star

[illegible]

Star

uaugaucguccaugucggaguaaauucugacacagacagucggcaauuuuugauaaauaccauuccuuuguuagauaaacuuaacacgggacaauaaggacauuggacaaaaaugaug			
.....uaaucuugacacagacacugggcaauA.....	1	1	s15
uaugaucguccauguggg.....	6	1	s06
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.....uaaucuugacacagacacugU.....	1	1	s06
.....uaaucuugacacagacacugggA.....	1	1	s06
.....uaaucuugacacagacacugggc.....	1	1	s06
.....uaaucuugacacagacacugggU.....	4	1	s06
.....uaaucuugacacagacacugggc.....	13	0	s06
.....Gaaucuugacacagacacugggca.....	1	1	s06
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.....Caaucuugacacagacacugggca.....	1	1	s06
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.....uaaCcuugacacagacacugggca.....	3	1	s06
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.....uaaucuuaAcacagacacugggca.....	2	1	s06
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.....uaaucuugacacagacacugggcU.....	9	1	s06
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Mature

Star

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.augaucguccauguUggag.....	1	1	s07
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.....uaa <u>aucuugacacagacugg</u>	5	0	s07
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.....uaa <u>aucuugacacagacuggc</u>	14	0	s07
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.....uaa <u>uc</u> uugacacagacGggca.....	1	1	s07
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.....Gaa <u>uc</u> uugacacagacuggcaa <u>u</u>	1	1	s07
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.....uaa <u>uc</u> uugacacagacuggcaa <u>u</u>	25	0	s07
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.....uaa <u>uc</u> uugacacagacCggcaa <u>u</u>	2	1	s09
.....uaa <u>uc</u> uugacacagacuggcaa <u>u</u>	7	0	s09

Mature

Star

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.....uaaauuugacacagacugggcaauC.....	3	1	s09			
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Star

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uuugauaaauaccau	4	1	s05
uuugauaaauaccau	1	1	s05
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Mature

Star

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Mature

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