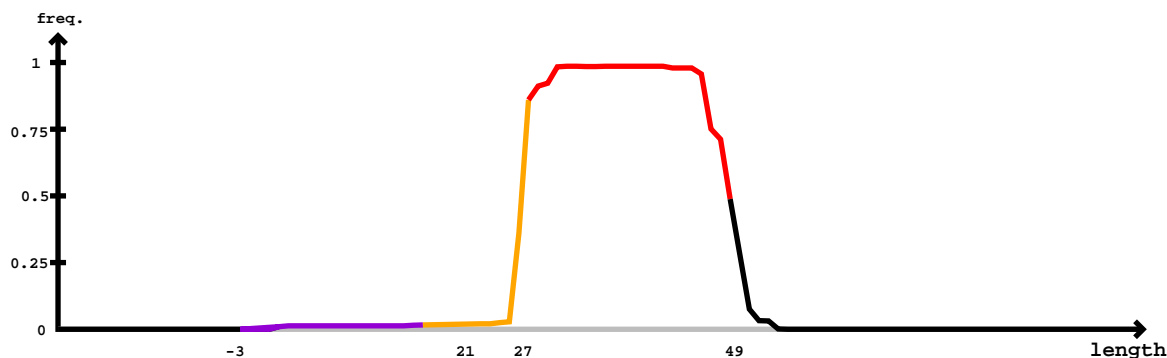


Diagram illustrating a segment of a DNA double helix. The top strand is labeled 5' and the bottom strand is labeled 3'. The bases are connected by hydrogen bonds (dashed lines). The sequence of the top strand is C-A-A-U-A-C-A-G-G-U-A-U-C-C-A-A-U-U-G-A-G. The sequence of the bottom strand is G-U-U-A-U-G-U-C-C-A-U-A-G-G-U-U-A-A-C-U-U-A.

[illegible]

## Star

## Mature

ucgaucacguggguguccaacuacaggguauccaauuugagcaacuuc	aaauuggauaccuguaaauugga	caccaacgccauccgcgcgcucaauacacgcgcgauuugaauugu			
.....auuggauaccuguaaauuggac.....			2	0	s06
.....uuggauaccuguaaauugg.....			5	0	s06
.....Uaaauggauaccuguaauu.....			1	1	s03
.....caaauggauaccuguaaGu.....			2	1	s03
.....caaauggauaccuguaauu.....			2	0	s03
.....caaauggauaccuguaauugg.....			5	0	s03
.....aaauuggauaccuguaauu.....			1	0	s03
.....aaauggauaccuguaauug.....			2	0	s03
.....aaauggauaccuguaauugg.....			1	0	s03
.....aaauggauaccuguaauugga.....			3	0	s03
.....aaauggauaccuguaauuggaA.....			1	1	s03
.....aauggauaccuguaauug.....			1	0	s03
.....aauggauaccuguaauugAac.....			1	1	s03
.....aauggauaccuguaauuggaca.....			1	0	s03
.....uuggauaccuguaauugg.....			1	0	s03
.....uacaggguauccaauuugagc.....			1	0	s07
.....caaauggauaccuguaau.....			1	0	s07
.....Uaaauggauaccuguaauu.....			1	1	s07
.....caaauggauaccuguaauu.....			13	0	s07
.....Uaaauggauaccuguaauug.....			1	1	s07
.....Uaaauggauaccuguaauugg.....			3	1	s07
.....caaauggauaccuguaauugg.....			13	0	s07
.....caaauggauaccuguaauugga.....			3	0	s07
.....aaauuggauaccuguaauu.....			8	0	s07
.....aaauCggauaccuguaauugg.....			3	1	s07
.....aaauggauaccuguaauugg.....			2	0	s07
.....aaauuggauaccuguaauuggG.....			2	1	s07
.....aaauuggCuaccuguaauugga.....			1	1	s07
.....aaauggauaccuguaauugga.....			24	0	s07
.....aaauuggauaccuguaauuggaU.....			4	1	s07
.....aauggauaccuguaauuggU.....			1	1	s07
.....uuggauaccuguaauugg.....			1	0	s07
.....uuggauaccuguaauuggaA.....			1	1	s07
.....uuggauaccuguaauuggacac.....			1	0	s07
.....uacaggguauccaauuugagcaacuuc	aaau.....		1	0	s09
.....agcaacucaaGuuggauaccuguaauugg.....			2	1	s09
.....caaauggauaccuguaauu.....			4	0	s09
.....caaauggauaccuguaauug.....			3	0	s09
.....caaauggauaccuguaauugg.....			1	1	s09
.....caaauggauaccuguaauuggA.....			1	1	s09
.....caaauggauaccuguaauugg.....			1	0	s09
.....aaauggauaccuguaauu.....			2	0	s09
.....aaauggauaccuguaauugg.....			1	0	s09
.....aaauggauaccuguaauugga.....			2	0	s09
.....aaauggauaccuguaauugga.....			3	1	s09
.....aaauggauaccuguaauuggU.....			1	1	s09
.....aauggauaccuguaauuggaca.....			1	0	s09
.....aaauggauaccuguaauugga.....			1	0	s04
.....aaauggauaccuguaauuggaU.....			1	1	s04
.....gcaacucaaauuggauaccuguaauugga.....			3	0	s08
.....aacuuc	aaauuggauaccugA.....		2	1	s08
.....caaauggauaccuguaauu.....			2	0	s08
.....caaauggauaccuguaauugA.....			1	1	s08
.....caaauggauaccuguaauugg.....			2	0	s08
.....caaauCggauaccuguaauugg.....			1	1	s08
.....Uaaauggauaccuguaauugg.....			1	1	s08
.....caaauCggauaccuguaauugga.....			1	1	s08
.....caaauggauaccuguaauugga.....			1	0	s08
.....caaauggauaccuguaauuggG.....			1	1	s08
.....aaauCggauaccuguaauu.....			1	1	s08
.....aaauggauaccuguaauu.....			2	0	s08
.....aaauggauaccuguaauugga.....			5	0	s08
.....aaauggauaccuguaauuggaU.....			1	1	s08
.....aauggauaccuguaauu.....			2	0	s08
.....aauggauaccuguaauuggC.....			3	1	s08

## Star

## Mature

ucgaucacgugggugucca <u>ac</u> uacagggu <u>aucca</u> uuuugagc <u>aa</u> cuu <u>caaa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugga <u>ca</u> ccaacgcca <u>u</u> ccgcgcgcu <u>ca</u> aucacgcgc <u>au</u> uuga <u>au</u> ggu			
.....uuggau <u>acc</u> gu <u>aa</u> uugg.....	3	0	s08
.....uuggau <u>acc</u> gu <u>aa</u> uuggacacc.....	2	0	s08
.....uugagca <u>acu</u> ca <u>aa</u> uug.....	1	0	s18
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	1	0	s18
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	3	0	s18
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugg.....	2	0	s18
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugga.....	2	0	s18
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggacG.....	2	1	s18
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	2	0	s05
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ug.....	1	0	s05
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugg.....	4	0	s05
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugga.....	1	0	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	1	0	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	1	0	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ug.....	1	0	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugA.....	1	1	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugg.....	4	0	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugga.....	9	0	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggaU.....	11	1	s05
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggac.....	4	0	s05
.....uuggau <u>acc</u> gu <u>aa</u> uuggacU.....	2	1	s05
.....uuggau <u>acc</u> gu <u>aa</u> uuggacacc.....	1	0	s05
.....uacagg <u>ua</u> ucca <u>au</u> uuga.....	2	0	s02
.....uacagg <u>ua</u> ucca <u>au</u> uugagU.....	4	1	s02
.....acagg <u>ua</u> ucca <u>au</u> uugagca.....	2	0	s02
.....acu <u>uca</u> aa <u>au</u> uug <u>gau</u> acc <u>gu</u> .....	4	0	s02
.....u <u>ca</u> aa <u>u</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	2	0	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	3	0	s02
.....U <u>aa</u> auug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	13	1	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> A <u>aa</u> u.....	1	1	s02
.....ca <u>aa</u> uug <u>gau</u> accA <u>gu</u> aa <u>u</u> .....	1	1	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	43	0	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ug.....	3	0	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugA.....	5	1	s02
.....ca <u>aa</u> u <u>C</u> ggau <u>acc</u> gu <u>aa</u> uugg.....	3	1	s02
.....U <u>aa</u> auug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugg.....	8	1	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugg.....	22	0	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggU.....	6	1	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugga.....	13	0	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggG.....	1	1	s02
.....ca <u>aa</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggaA.....	3	1	s02
.....U <u>aa</u> auug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggaca.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	6	0	s02
.....aa <u>au</u> uug <u>g</u> Cu <u>acc</u> gu <u>aa</u> u.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	15	0	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ug.....	10	0	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugA.....	2	1	s02
.....aa <u>au</u> u <u>C</u> ggau <u>acc</u> gu <u>aa</u> uugg.....	2	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> gugg.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugg.....	15	0	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> a <u>C</u> uugg.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggC.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggU.....	14	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugga.....	74	0	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> A <u>aa</u> uugga.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> accG <u>gu</u> aa <u>u</u> uggac.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggaA.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggac.....	12	0	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggaU.....	26	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggaUa.....	1	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggaca.....	1	0	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggacU.....	3	1	s02
.....aa <u>au</u> uug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggUca.....	1	1	s02
.....aa <u>u</u> ug <u>gau</u> acc <u>gu</u> aa <u>u</u> .....	3	0	s02
.....aa <u>u</u> ug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugA.....	1	1	s02
.....aa <u>u</u> ug <u>gau</u> acc <u>gu</u> aa <u>u</u> ugg.....	7	0	s02
.....aa <u>u</u> ug <u>gau</u> acc <u>gu</u> aa <u>u</u> uggG.....	1	1	s02

## Star

## Mature

ucgaucacguggguguccaacuacaggguauccaauuugagcaacuuc	aaauugggauaccuguaauuggga	caccaacgccauccgcgcgcaauacacgcgcgauuugaauuggu			
.....	.....	.....	1	1	s02
.....	.....	.....	8	0	s02
.....	.....	.....	1	1	s02
.....	.....	.....	1	0	s02
.....	.....	.....	1	0	s02
.....	.....	.....	1	0	s02
.....	.....	.....	1	1	s02
.....	.....	.....	11	0	s02
.....	.....	.....	1	1	s02
.....	.....	.....	3	0	s02
.....	.....	.....	1	1	s02
.....	.....	.....	1	0	s11
.....	.....	.....	1	0	s10
.....	.....	.....	4	0	s10
.....	.....	.....	3	0	s10
.....	.....	.....	7	0	s10
.....	.....	.....	1	1	s10
.....	.....	.....	1	0	s10
.....	.....	.....	2	0	s10
.....	.....	.....	4	0	s10
.....	.....	.....	1	1	s10
.....	.....	.....	2	1	s10
.....	.....	.....	20	0	s10
.....	.....	.....	2	0	s10
.....	.....	.....	2	1	s10
.....	.....	.....	1	1	s10
.....	.....	.....	1	0	s10
.....	.....	.....	2	0	s10
.....	.....	.....	1	0	s10
.....	.....	.....	2	0	s10
.....	.....	.....	1	0	s10
.....	.....	.....	2	0	s10
.....	.....	.....	1	0	s10
.....	.....	.....	3	0	s10
.....	.....	.....	2	0	s17
.....	.....	.....	1	1	s17
.....	.....	.....	2	0	s17
.....	.....	.....	1	0	s17
.....	.....	.....	1	1	s17
.....	.....	.....	3	0	s17
.....	.....	.....	1	1	s17
.....	.....	.....	1	0	s17
.....	.....	.....	1	1	s01
.....	.....	.....	1	0	s01
.....	.....	.....	1	1	s01
.....	.....	.....	1	0	s13
.....	.....	.....	5	0	s13
.....	.....	.....	1	1	s13
.....	.....	.....	5	0	s13
.....	.....	.....	1	1	s13
.....	.....	.....	4	0	s13
.....	.....	.....	2	0	s13
.....	.....	.....	2	0	s13
.....	.....	.....	2	0	s13
.....	.....	.....	2	1	s13
.....	.....	.....	1	0	s13
.....	.....	.....	2	1	s13
.....	.....	.....	4	0	s13
.....	.....	.....	1	0	s13
.....	.....	.....	1	0	s13
.....	.....	.....	2	0	s13
.....	.....	.....	2	0	s13
.....	.....	.....	1	0	s12
.....	.....	.....	1	0	s12
.....	.....	.....	1	1	s12

## Mature

Sequence	Count	Frequency	Category
caaaauugggauaccuguaau.	1	0	s12
caaaauugggauaccuguaauu.	15	0	s12
caaaauugggauaccuguaauugg.	11	0	s12
caaaauugggauaccuguaauugA.	1	1	s12
Uaaaauugggauaccuguaauugg.	1	1	s12
caaaauugggauaccuguaauugC.	1	1	s12
Uaaaauugggauaccuguaauuggaca.	1	1	s12
.aaaauugggauaccuguaauu.	10	0	s12
.aaaauugggauaccuguaauug.	1	0	s12
.aaaauugggauaccuguaauuggg.	7	0	s12
.aaaauugggauaccuguaauuggga.	22	0	s12
.aaaauugggauaccuguaauuggU.	2	1	s12
.aaaauugggauaccuguaauugggac.	1	0	s12
.aaaauugggauaccuguaauugggaU.	8	1	s12
.aaauugggauaccuguaauugggac.	1	0	s12
.auugggauaccuguaauuggg.	1	0	s12
.auugggauaccuguaaGuggaca.	1	1	s12
.uugggauaccuguaauuggg.	2	0	s12
.uugggauaccuguaauugggacacc.	2	0	s12
caaaauCggauaccuguaauu.	1	1	s14
caaaauugggauaccuguaauu.	1	0	s14
caaaauugggauaccuguaauugg.	2	0	s14
caaaauugggauaccuguaauugggaU.	2	1	s14
.aaaauugggauaccuguaauu.	1	0	s14
.aaaauugggauaccuguaauuggga.	3	0	s14
caaaauugggauaccuguaauu.	8	0	s19
Uaaaauugggauaccuguaauu.	1	1	s19
caaaauugggauaccuguaauuggg.	6	0	s19
caaaauugggauaccuguaauuggga.	1	0	s19
Uaaaauugggauaccuguaauuggga.	1	1	s19
caaaauugggauaccuguaauugggaUa.	1	1	s19
.aaaauugggauaccuguaauu.	2	0	s19
.aaaauugggauaccuguaauugA.	5	1	s19
.aaaauugggauaccuguaauuggg.	2	0	s19
.aaaauugggauaccuguaauuggga.	11	0	s19
.aaaauAGauaccuguaauuggga.	1	1	s19
.aaaauugggauaccuguaauugggU.	1	1	s19
.aaaauugggauaccuguaauugggG.	1	1	s19
.aaaauugggauaccuguaauugggaA.	1	1	s19
.aaaauugggauaccuguaauugggaU.	1	1	s19
.aaauugggauaccuguaauuggg.	1	0	s19
.aaauugggauaccuguaauugggaca.	1	0	s19
.uugggauaccuguaauuggg.	1	0	s19
.uugggauaccuguaauugggaca.	1	0	s19
.uugggauaccuguaauugggaca.	1	0	s19