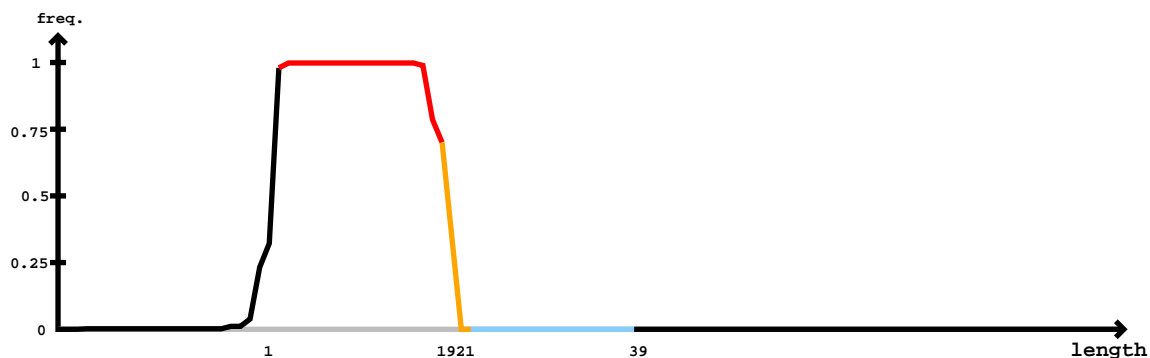


The diagram shows a single-stranded RNA molecule. The 5' end is labeled '5'' and has a red 'a' (adenine) base. The 3' end is labeled '3'' and has a blue 'g' (guanine) base. The sequence of bases is: 5' a u g g g g u u g u a g g g c u g u a g. The bases are connected by lines representing the sugar-phosphate backbone. The bases are color-coded: red for 'a', blue for 'g', and black for 'u'.



5'	caaguagggccauguaggggcc <u>augggguuguagggcuguagggccugagggccuguagg</u> gccauguagggccaaguaggggccauguagggccuuguaggggu	-3'	exp	
	.....(((.....(((.....(((.....(((.....))))).).))))). ....)))) .....)))) .....((((.....))))))))).))))	reads	mm	sample
	.....gcGauagggguuguaggggcgu.....	1	1	s19
	.....gcUauagggguuguaggggcgu.....	1	1	s19
	.....ccaCggggguuguaggggcgu.....ccaCggggguuguaggggcgu.....	1	1	s19
	.....cAauagggguuguaggggcgu.....	1	1	s19
	.....ccCuagggguuguaggggcgu.....	1	1	s19
	.....ccaugggguuguaggggcgu.....ccaugggguuguaggggcgu.....	13	1	s19
	.....Uauagggguuguaggggcgu.....	1	1	s19
	.....Aauagggguuguaggggcgu.....	1	1	s19
	.....caugggguuguaggggcgu.....caugggguuguaggggcgu.....	1	1	s19
	.....Uauagggguuguaggggcgu.....	1	1	s19
	.....auagggguuguaggggcgu.....	40	1	s19
	.....Uuagggguuguaggggcgu.....	1	1	s19
	.....auagggguuguaggggcgu.....	1	1	s19
	.....ugggguuguaggggcgu.....	2	1	s19
	.....ccaugggguuguaggggcgu.....ccaugggguuguaggggcgu.....	2	1	s14
	.....cGauagggguuguaggggcgu.....	1	1	s14
	.....augggguuguaggggcgu.....augggguuguaggggcgu.....	8	1	s14
	.....Guagggguuguaggggcgu.....	1	1	s14
	.....augggguuguaggggcgu.....	1	1	s14
	.....Cuagggguuguaggggcgu.....	1	1	s14
	.....augggguuguaggggcgu.....	1	1	s12
	.....augggguuguaggggcgu.....	1	1	s12
	.....Cuagggguuguaggggcgu.....	1	1	s12
	.....Uuagggguuguaggggcgu.....	2	1	s12
	.....ugggguuguaggggcgu.....	1	1	s12
	.....gcGauagggguuguaggggcgu.....	1	1	s13
	.....ccGuagggguuguaggggcgu.....	1	1	s13
	.....ccaugggguuguaggggcgu.....ccaugggguuguaggggcgu.....	2	1	s13
	.....caCggggguuguaggggcgu.....	2	1	s13
	.....Uauagggguuguaggggcgu.....	8	1	s13
	.....augggguuguaggggcgu.....	1	1	s13

# Mature Star

caaguagggccauguagggccaugggguuaguagggcuguaggccugaggggccuguaggcccauguagggccauguagggccauguagggcuuaguagggguu			
.....augggguuaguagggcugA.....	1	1	s13
.....augggguuaguagggAcugu.....	9	1	s13
.....augggguuaguagggAcugua.....	1	1	s13
.....gggcGaugggguuaguagggcu.....	1	1	s01
.....cAaugggguuaguagggcu.....	2	1	s01
.....Uaugggguuaguagggcug.....	1	1	s01
.....caugggguuaguagggAcug.....	1	1	s01
.....Uugggguuaguagggcugu.....	2	1	s01
.....augggguuaguagggAcugu.....	7	1	s01
.....augggguuaguagggcugCa.....	1	1	s01
.....gcUaugggguuaguagggcu.....	1	1	s17
.....cGaugggguuaguagggcu.....	1	1	s17
.....ccUugggguuaguagggcu.....	1	1	s17
.....ccaugggguuaguagggAcu.....	4	1	s17
.....caugggguuaguagggAcug.....	4	1	s17
.....caugggguuaguagggAcugu.....	3	1	s17
.....augggguuaguagggAcugu.....	15	1	s17
.....Uugggguuaguagggcugu.....	4	1	s17
.....augggguuaguagggAcugua.....	1	1	s17
.....ugggguuaguagggAcugua.....	2	1	s17
.....ccaugggguuaguagggAcu.....	14	1	s10
.....cAaugggguuaguagggcu.....	1	1	s10
.....caugggguuaguagggAcug.....	1	1	s10
.....Uugggguuaguagggcugu.....	1	1	s10
.....augggguuaguagggcugC.....	3	1	s10
.....augggguuaguagggAcugu.....	6	1	s10
.....ccaugggguuaguagggAcu.....	2	1	s11
.....ccaugggguuaguagggAcug.....	3	1	s11
.....augggguuaguagggcGgu.....	3	1	s11
.....augggguuaguagggcugC.....	1	1	s11
.....augggguuaguagggAcugu.....	28	1	s11
.....augggguuaguagggAcugua.....	1	1	s11
.....caugggguuaguagggAcug.....	2	1	s02
.....Uugggguuaguagggcugu.....	5	1	s02
.....augggguuaguagggAcugu.....	13	1	s02
..aaguagggcUauguagggcc.....	1	1	s05
.....gcGaugggguuaguagggcu.....	1	1	s05
.....augggguuaguagggAcugu.....	1	1	s05
.....Uugggguuaguagggcugu.....	29	1	s05
.....Cugggguuaguagggcugu.....	1	1	s05
.....Uugggguuaguagggcugua.....	2	1	s05
.....gggcGaugggguuaguagggcu.....	2	1	s18
.....cGaugggguuaguagggcu.....	1	1	s18
.....ccUugggguuaguagggcu.....	3	1	s18
.....ccaugggguuaguagggAcug.....	1	1	s18
.....caugggguuaguagggAcug.....	1	1	s18
.....augggguuaguagggAcugu.....	11	1	s18
.....augggguuaguagggcuCua.....	2	1	s18
.....ugggguuaguagggAcugua.....	2	1	s18
.....gcGaugggguuaguagggc.....	1	1	s08
.....caugggguuaguagggAcug.....	1	1	s08
.....Uaugggguuaguagggcug.....	1	1	s08
.....Uugggguuaguagggcugu.....	1	1	s08
.....augggguuaguagggAcugu.....	11	1	s08
.....gggcGaugggguuaguagggcu.....	2	1	s04
.....gcGaugggguuaguagggc.....	2	1	s04
.....gccaugggguuaguagggAcug.....	1	1	s04
.....ccUugggguuaguagggcu.....	4	1	s04
.....cAaugggguuaguagggcu.....	1	1	s04
.....cGaugggguuaguagggcu.....	3	1	s04
.....Uaugggguuaguagggcug.....	3	1	s04

# Mature Star

caaguagggccauguagggccaugggguuguagggcuguagggccugagggccugagggccauguagggccauguagggccauguagggcuuguagggguu			
.....Aaugggguuguagggcug.....	2	1	s04
.....Aaugggguuguagggcugu.....	1	1	s04
.....caugggguuguagggAcugu.....	2	1	s04
.....Cugggguuguagggcugu.....	1	1	s04
.....augggguuguagggAcugu.....	57	1	s04
.....augggguuguagggcugC.....	1	1	s04
.....augggguuguagggcuU.....	1	1	s04
.....augggguuguagggcCgu.....	2	1	s04
.....Uugggguuguagggcugu.....	9	1	s04
.....augggguuguagggUcugu.....	2	1	s04
.....augggguuguagggcuCu.....	10	1	s04
.....Gugggguuguagggcugu.....	1	1	s04
.....aAugggguuguagggcugu.....	1	1	s04
.....augggguuguagggAcugua.....	1	1	s04
.....ugggguuguagggAcugua.....	1	1	s04
.....ugggguuguagggcugCa.....	1	1	s04
.....gccaugggguuguagggAcug.....	1	1	s09
.....augggguuguagggAcugu.....	2	1	s09
.....augggguuguagggAcugua.....	1	1	s09
.....augggguuguagggAcugu.....	5	1	s07
.....ccaugggguuguagggAcu.....	1	1	s03
.....caugggguuguagggAcug.....	1	1	s03
.....Aaugggguuguagggcug.....	1	1	s03
.....Uaugggguuguagggcugu.....	1	1	s03
.....augggguuguagggAcugu.....	9	1	s03
.....Gugggguuguagggcugu.....	1	1	s03
.....augggguuguagggAcugua.....	1	1	s03
.....gcUaugggguuguagggcu.....	1	1	s06
.....cGaugggguuguagggcu.....	3	1	s06
.....Gaugggguuguagggcugua.....	1	1	s06
.....Uugggguuguagggcugu.....	1	1	s06
.....augggguuguagggAcugu.....	17	1	s06
.....augggguuguagggAcugua.....	1	1	s06
.....gccaugggguuguagggU.....	2	1	s15
.....cGaugggguuguagggcu.....	1	1	s15
.....caugggguuguagggcAg.....	1	1	s15
.....Uaugggguuguagggcug.....	1	1	s15
.....Uaugggguuguagggcugu.....	1	1	s15
.....augggguuguagggAcugu.....	7	1	s15
.....Accaugggguuguagggcu.....	2	1	s16
.....ccaugggguuguagggAcu.....	36	1	s16
.....cGaugggguuguagggcu.....	1	1	s16
.....cUaugggguuguagggcug.....	1	1	s16
.....Uaugggguuguagggcug.....	1	1	s16
.....caugggguuguagggAcug.....	2	1	s16
.....cUugggguuguagggcug.....	1	1	s16
.....caugggguuguagggcuA.....	1	1	s16
.....Uugggguuguagggcugu.....	2	1	s16
.....augggguuguagggAcugu.....	9	1	s16
.....ugggguuguagggAcugua.....	1	1	s16