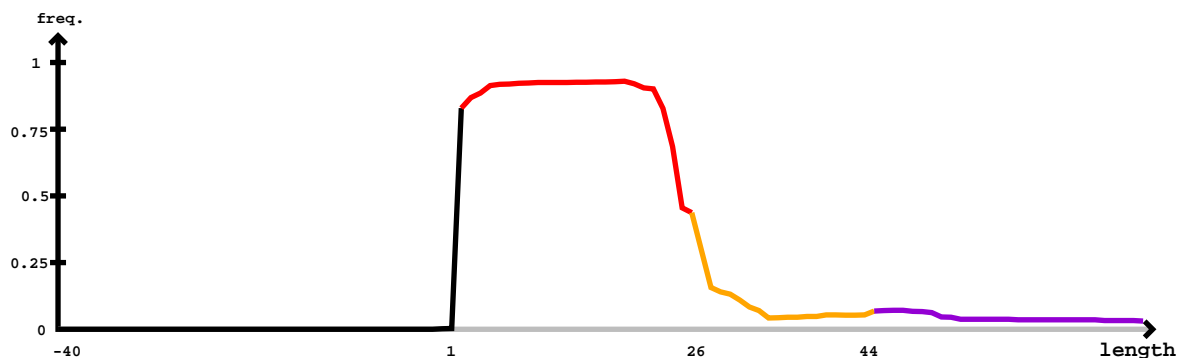


The diagram shows a circular plasmid DNA molecule. The main circle is composed of 16 nucleotides: 10 'g' (green), 4 'c' (red), 1 'u' (blue), and 1 'a' (yellow). The sequence, starting from the 5' end and moving clockwise, is: g, c, c, u, g, g, a, g, c, g, g, g, c, c, g, g. The 5' and 3' ends are labeled at the bottom. A linear DNA segment is attached to the circle at the 3' end. This segment consists of 10 nucleotides: 5 'g' (green), 3 'c' (red), and 2 'u' (blue). The sequence of the linear segment is: g, g, g, g, g, c, c, c, u, u. The linear segment is connected to the circular plasmid at the 3' end by a single 'u' (blue) nucleotide.



Star

5' -	auaaaacaaaauaaauugaacucgauuacaacguaaacugagguccggacgguugaggguuauucucaaacugaauucugaaccaccccccucccacucacugaccucaua auaaaaacaaaauaaauugaacucgauuacaacguaaacugagguccggacgguugaggguuauucucaaacugaauucugaaccaccccccucccacucacugaccucaua	-3'	obs
			exp
	.....(((((((.(.(.(((((.....(((.....))))).)))).))....)))..	reads	mm
	.....cugagguccggacgguugaggguuauucuc.....	2	0
	.....Agagguccggacgguugaggguuua.....	1	1
	.....gaggucccgacgguugag.....	15	0
	.....gaggucccgacgguugagg.....	20	0
	.....gaggucccgacgguugaggg.....	4	0
	.....gaggucccgacgguugagggG.....	1	1
	.....gaCgucccgacgguugaggggu.....	1	1
	.....gaggAaccggacgguugaggggu.....	1	1
	.....gaggucccgacgguugaggggu.....	70	0
	.....gaggucccgacggCugagggguu.....	1	1
	.....gaggucccgacgguugagggguu.....	96	0
	.....gaggAaccggacgguugagggguu.....	1	1
	.....Aaggucccgacgguugagggguu.....	1	1
	.....gaUgucccgacgguugagggguu.....	1	1
	.....Caggucccgacgguugagggguu.....	1	1
	.....gaggucccgacgguAagagggguua.....	3	1
	.....gagguccgCacgguugagggguua.....	1	1
	.....gaggucccgacgguugagggguua.....	229	0
	.....gaggucccgacgguugagggguuau.....	21	0
	.....gaggucccgacgguugagggguuauA.....	2	1
	.....Aaggucccgacgguugagggguuauuc.....	11	1
	.....gaCgucccgacgguugagggguuauuc.....	1	1
	.....gaggucccgacgguAagagggguuauuc.....	2	1
	.....gaggucccgacgguugagggguuaAc.....	3	1
	.....gaggucccgacgguugagggguuauuc.....	243	0
	.....gaggucccgacgguugagggguuauucu.....	6	0
	.....gaggucccgacgguugagggguuauucuc.....	18	0
	.....gaggucccgacgguugagggguuauucuca.....	10	0
	.....gaggucccgacgguugagggguuauucUGaa.....	1	1
	.....gaggucccgacgguugagggguAaucucaaa.....	1	1
	.....gaggucccgacgguugagggguuauucucaaa.....	24	0
	.....gaggucccgacgguugagggguuauucucaaaa.....	26	0
	.....gaggucccgacgguugaUggguuauucucaaaa.....	1	1
			seq

Mature

Star

auaaaacaaaauauuugaacucgauuacaacguaaacu	gagguccggacggguagggguuauucuaaacugaaucugaaccaccccucuccacucacuugaccucaua			
.....gagguccggacggguagggguuauucuaaC.....	1	1	seq	
.....gagguccggacggguagggguuauucuaaac.....	14	0	seq	
.....gagguccggacggguagggguuauucuaaCCu.....	3	1	seq	
.....gagguccggacggguagggguuauucuaaacA.....	3	1	seq	
.....gagguccggacggguagggguuauucuaaacu.....	20	0	seq	
.....gagguAcggacggguagggguuauucuaaacu.....	1	1	seq	
.....gagguccggacggguagggguuauucuaaacug.....	1	0	seq	
.....gagguccggacggguagggguuauucuaaacugaaucug.....	1	0	seq	
.....agguccggacggguaggg.....	1	0	seq	
.....agguccggacggguaggggu.....	2	0	seq	
.....agguccggacggguagggguu.....	16	0	seq	
.....agguccggacggguagggguua.....	5	0	seq	
.....agguccggacggguagggguuauc.....	10	0	seq	
.....agguccggacggguagggguuaucuc.....	1	0	seq	
.....agguccggacggguagggguuaucuaaaa.....	3	0	seq	
.....agguccggacggguagggguuaucuaaacu.....	1	0	seq	
.....agguccggacggguagggguuaucuaaaaA.....	1	1	seq	
.....agguccggacggguagggguuaucuaaacug.....	1	0	seq	
.....gguccggacggguaggggu.....	2	0	seq	
.....ggucAggacggguagggguu.....	1	1	seq	
.....gguccggacggguaggggu.....	8	0	seq	
.....gguccggacggguagggguua.....	1	0	seq	
.....gguccggacggguagggguuaa.....	1	0	seq	
.....gguccggacggguagggguuauc.....	2	0	seq	
.....gguccggacggCugagggguuauc.....	2	1	seq	
.....gguccggacggguagggguuaucuaa.....	1	0	seq	
.....guccggacggguaggggu.....	22	0	seq	
.....Cuccggacggguagggguuauc.....	1	1	seq	
.....guccggacggguagggguuauc.....	2	0	seq	
.....guccggacggguagggCuuauc.....	1	1	seq	
.....guccgAacggguagggguuaucuaaacugaauc.....	2	1	seq	
.....guccggacggguagggguuaucuaaacugaaucugaaccaccccu.....	1	0	seq	
.....uccggacggguaggggu.....	4	0	seq	
.....uccggacggguagggguuauc.....	1	0	seq	
.....ccggacggguagggguuauc.....	1	0	seq	
.....cggacggguagggguuauc.....	3	0	seq	
.....ggacggguagggguuauc.....	1	0	seq	
.....gacggguagggguuaucuc.....	2	0	seq	
.....guagggguuaucuaaacugaaucugaaccaccc.....	1	0	seq	
.....ugagggguuaucuaaacugaaucugaaccaccc.....	1	0	seq	
.....aggguuaucuaaacugaaucugaacc.....	1	0	seq	
.....ggguuaucuaaacugaaucugaacc.....	1	0	seq	
.....ggguuaucuaaacugaaucugaaccacccucuc.....	1	0	seq	
.....gguuauucuaaacugaaucugaa.....	2	0	seq	
.....gguuauucuaaacugaaucugaaccaccccu.....	3	0	seq	
.....guuauucuaaCugaaucugaaccaccc.....	1	1	seq	
.....guuauucuaaacugaaucugaaccaccccu.....	3	0	seq	
.....guuauucuaaCugaaucugaaccacccuc.....	1	1	seq	
.....uauucuaaacugaaucugaac.....	1	0	seq	
.....aucuaaacugaaucugaaccaccc.....	3	0	seq	
.....ucuaaacugaaucugaaccacccucuc.....	1	0	seq	
.....cucaaCugaaucugaaccaccccu.....	1	1	seq	
.....cucaaacugaaucugaaccaccccu.....	2	0	seq	
.....aaacugaGuucugaaccaccc.....	1	1	seq	
.....aaacugaauucugaaccaccc.....	1	0	seq	
.....aaacugaauucugaaccaccccu.....	3	0	seq	
.....aaacugaauucugaaccacccucuc.....	1	0	seq	
.....aacugaauucugaaccaccc.....	1	0	seq	
.....acugaauucugaaccaccccu.....	4	0	seq	
.....cugaauucugaaccacccucuc.....	4	0	seq	
.....aaucugaaccacccucuccacucacuugacc.....	3	0	seq	
.....auucugaaccacccucuc.....	1	0	seq	
.....auucugaaccacccucuccacucacuugaccucau.....	1	0	seq	
.....ucugaaccacccucuccacu.....	2	0	seq	
.....ucugaaccacccucucUccacucacuugaccucaua.....	1	1	seq	
.....ugaaccacccucucUccacucacuugaccucaua.....	8	1	seq	
.....ccacccucucUccacucacuugaccucaua.....	3	1	seq	
.....caccccucuaAccacucacuugaccucau.....	1	1	seq	
.....caccccucucUccacucacuugaccucaua.....	14	1	seq	
.....caccccucuccacucacuugaccucauU.....	1	1	seq	

Mature

Star

a u a a a c a a a u a a u u g a a c u c g a u u a c a c g u a a a c u g a g g u c c g g a c g g u u g a g g g u u a u c u c a a a c u g a a u u c u g a a c c a c c c c u c u c c c a c u c a c u u g a c c u c a u a			
.....a c c c c u c u U c c a c u c a c u u g a c c u c a u a	3	1	seq
.....a c c c c u c u c c c a c u c a c u u g a c c u c a u U	1	1	seq
.....c c c c u c u U c c a c u c a c u u g a c c u c a u a	1	1	seq