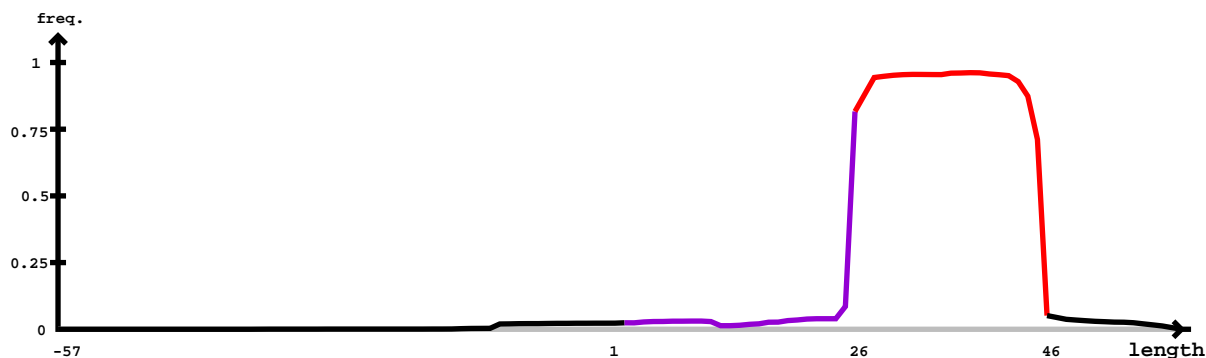


The diagram illustrates a complex RNA secondary structure involving two interacting RNA strands. The top strand is colored purple and has its 5' end at the top left. It forms a large loop on the left side and extends as a single-stranded segment towards the right. The bottom strand is colored red and has its 3' end at the top left. It also forms a large loop on the left side and extends as a single-stranded segment towards the right. The two strands are connected by several short double-stranded regions where their bases are complementary. These regions include a central stem-like structure and several smaller loops or bulges. The bases are labeled with their standard abbreviations: 'c' for cytosine, 'g' for guanine, 'u' for uracil, and 'a' for adenine. Vertical dashed lines indicate the base pairs between the two strands.



5 -	guuuuc <u>accag</u> ua <u>uuuuacaaggg</u> aa <u>acaaaga</u> ucgc <u>cucua</u> gug <u>ggacuc</u> cguggcg <u>caaugguagcg</u> cguc <u>gacuccag</u> a <u>ucagaagg</u> cugcgugu <u>ucaa</u> gucacgucgggu	-3'	obs	
	guuuuc <u>accag</u> ua <u>uuuuacaaggg</u> aa <u>acaaaga</u> ucgc <u>cucua</u> gug <u>ggacuc</u> cguggcg <u>caaugguagcg</u> cguc <u>gacuccag</u> a <u>ucagaagg</u> cugcgugu <u>ucaa</u> gucacgucgggu		exp	
	((((((((...(((...)))...))))))...(((...)))((((((((((...(((...(((...(((...(((...(((...))))))...))))...))))))...))))))	reads	mm	sample
	.....aAaaagaucgcccuc <u>agug</u>	1	1	s52
	.....Aaguggacuc <u>cguggcgc</u>	3	1	s52
	.....aguggacuc <u>cguggcgc</u> caauggua.....	1	0	s52
	.....agugga <u>Uuccguggcg</u> caaugguagcg <u>cg</u>	1	1	s52
	.....guggacuc <u>cguggcgc</u> caaugguag.....	1	0	s52
	.....Aggacuc <u>cguggcgc</u> caauggu.....	1	1	s52
	.....Agacuc <u>cguggcgc</u> caaugguag.....	4	1	s52
	.....Agacuc <u>cguggcgc</u> caaugguagc.....	20	1	s52
	.....Agacuc <u>cguggcgc</u> caaugguagcg.....	1	1	s52
	.....Agacuc <u>cguggcgc</u> caaugguagcg <u>cg</u>	3	1	s52
	.....gacuc <u>cguggcgc</u> caaugguagc.....	2	0	s52
	.....acuc <u>cguggcgc</u> caaugguag.....	1	0	s52
	.....gcaaugguagcg <u>cg</u> ucgacuccag.....	1	0	s52
	.....Aaaugguagcg <u>cg</u> ucgacuccagau.....	1	1	s52
	.....augguagcg <u>cg</u> ucgacuccagau.....	2	0	s52
	.....Auagcg <u>cg</u> ucgacuccagau <u>cg</u> aa.....	1	1	s52
	.....agcg <u>cg</u> ucgacuccagau <u>cg</u> aaaggcugc.....	2	0	s52
	.....Acugacuccagau <u>cg</u> aaaggcugcgugu.....	1	1	s52
	.....ucgacuccagau <u>cg</u> aaaggc.....	1	0	s52
	.....Acugacuccagau <u>cg</u> aaaggcug.....	1	1	s52
	.....Acugacuccagau <u>cg</u> aaaggcugcgugu.....	1	1	s52
	.....Acugacuccagau <u>cg</u> aaaggcugcguguu.....	1	1	s52
	.....Augacuccagau <u>cg</u> aaaggcugcgug.....	1	1	s52
	.....Augacuccagau <u>cg</u> aaaggcugcgugu.....	1	1	s52
	.....Augacuccagau <u>cg</u> aaaggcugcguguu.....	1	1	s52
	.....Augacuccagau <u>cg</u> aaaggcugcguguu <u>ca</u>	1	1	s52
	.....Agacuccagau <u>cg</u> aaaggcugcg.....	2	1	s52
	.....Agacuccagau <u>cg</u> aaaggcugcgug.....	1	1	s52
	.....Agacuccagau <u>cg</u> aaaggcugcgugu.....	1	1	s52
	.....Agacuccagau <u>cg</u> aaaggcugcguguu.....	1	1	s52
	.....Aacuccagau <u>cg</u> aaaggcu.....	1	1	s52
	.....Aacuccagau <u>cg</u> aaaggcugcguguu <u>caag</u>	1	1	s52
	.....acuccagCucagaaggcugcg.....	1	1	s52
	.....acuccagau <u>cg</u> aaaggcugcg.....	2	0	s52

Star Mature

guuucuccaguuuuuacaagggaaacaaagaucgccucugaguggacuccgugggcgcaaugguagcgcgucugacuccagaucaagaaggcugcgugucaagucacgucggggg

.....acuccagaucaagaaggcugcg.....	1	0	s52
.....acuccagaucaagaaggcugcg.....	1	0	s52
.....acuccagaucaagaaggcugcgugu.....	1	0	s52
.....acuccagaucaagaaggcugcgugu.....	1	1	s52
.....acuccagaucaagaaggcugcguguuc.....	1	0	s52
.....Auccagaucaagaaggcugcg.....	1	1	s52
.....Auccagaucaagaaggcugcg.....	2	1	s52
.....cuccagCucagaaggcugcgugu.....	1	1	s52
.....cuccagaucaagaaggcugcgugu.....	1	0	s52
.....Auccagaucaagaaggcugcgugu.....	1	1	s52
.....Auccagaucaagaaggcugcgugucaaguc.....	1	1	s52
.....Accagaucaagaaggcugcg.....	1	1	s52
.....uccagaucaagaaggcugcg.....	1	0	s52
.....Accagaucaagaaggcugcgugu.....	1	1	s52
.....Accagaucaagaaggcugcguguuc.....	1	1	s52
.....Aucagaaggcugcgugu.....	8	1	s52
.....Aucagaaggcugcgugu.....	3	1	s52
.....Aucagaaggcugcguguuc.....	2	1	s52
.....Aucagaaggcugcguguuca.....	5	1	s52
.....aucagaaggcugcgugu.....	12	0	s52
.....aucagaCggcugcguguuc.....	1	1	s52
.....aucagaaggcugcgugCuc.....	1	1	s52
.....aucagaaggcugcguguuc.....	72	0	s52
.....aucagaaggcugcguguuU.....	1	1	s52
.....aucagaaggcugcguguuca.....	224	0	s52
.....aucCgaaggcugcguguuca.....	3	1	s52
.....aucagaaAgcugcguguuca.....	1	1	s52
.....auAgaaggcugcguguuca.....	1	1	s52
.....aucagaaggcugcguguuca.....	1	0	s52
.....aucagaaggcugcguguucaag.....	1	0	s52
.....aucagaaggcugcguguucaaguca.....	1	0	s52
.....aucagaaggcAgcguguucaagucacguc.....	1	1	s52
.....aucagaaggcugcguguucaagucacgucg.....	1	0	s52
.....ucagaaggcugcguguuU.....	1	1	s52
.....ucagaaggcugcguguuc.....	5	0	s52
.....Acagaaggcugcguguuc.....	2	1	s52
.....Acagaaggcugcguguuca.....	14	1	s52
.....ucagaaggcugcguguuca.....	17	0	s52
.....ucagaaggcugcguguucaagucacgucg.....	1	0	s52
.....Aagaaggcugcguguuca.....	12	1	s52
.....cagaaggcugcguguuca.....	6	0	s52
.....Aagaaggcugcguguucaagucac.....	1	1	s52
.....agaaggcugcguguuca.....	1	0	s52
.....agaaggcugcguguucaagucacg.....	1	0	s52
.....Aaaggcugcguguucaagu.....	3	1	s52
.....Aaaggcugcguguucaaguca.....	1	1	s52
.....aaggcugcguguucaagu.....	1	0	s52
.....aaggcugcguguucaagucacgucggg.....	1	0	s52
.....aggcugcguguucaaguca.....	2	0	s52
.....aggcugcguguucaagucacgucggg.....	2	0	s52
.....Acguguucaagucacgucgg.....	3	1	s52
.....Acguguucaagucacgucggg.....	2	1	s52
.....Aguguucaagucacgucggg.....	1	1	s52
.....Aguucaagucacgucggg.....	2	1	s52
.....Auucaagucacgucggg.....	1	1	s52
.....cuaguggaUuccgugggcgcaaugguag.....	1	1	s23
.....Aaguggacuccgugggcgcaaugguagc.....	1	1	s23
.....Agguagcgcgucugacuccagau.....	1	1	s23
.....Agcgucugacuccagaucaagaaggcugcg.....	1	1	s23
.....Agacuccagaucaagaaggcugcg.....	2	1	s23
.....Aacuccagaucaagaaggcugcgugu.....	2	1	s23
.....acuccagaucaagaaggc.....	1	0	s23
.....acuccagaucaagaaggcugcg.....	1	0	s23
.....acuccagaucaagaaggcugcgugu.....	1	0	s23
.....acuccagaucaagaaggcugcguguuc.....	2	0	s23
.....Auccagaucaagaaggcugcgugu.....	1	1	s23
.....Acagaucaagaaggcugcgugu.....	2	1	s23
.....aAaucagaaggcugcguguuca.....	2	1	s23

Star Mature

guuucuccaguuuuuacaagggaacaaagauccgccucuaugggacuccgugggcgcaaugguagcgcgucugacuccagaucaagaaggcugcguguucaaagucacgucgggggu

.....Aaucagaaggcugcguguu.....	6	1	s23
.....Aaucagaaggcugcguguu.....	2	1	s23
.....Aaucagaaggcugcguguu.....	1	1	s23
.....Aaucagaaggcugcguguuca.....	15	1	s23
.....aucagaaggcugcguguu.....	1	0	s23
.....aucagaCggcugcguguu.....	1	1	s23
.....aucagaaggcugcguguu.....	16	0	s23
.....aucagaCggcugcguguuca.....	1	1	s23
.....aucagaaggcugcguguuca.....	162	0	s23
.....aucagaagUcugcguguuca.....	1	1	s23
.....aucagaaggcugcguguucaag.....	1	0	s23
.....aucagaaggcugcguguucaaguc.....	3	0	s23
.....aucagaaggcugcguguucaagucacgucg.....	2	0	s23
.....Acagaaggcugcguguu.....	10	1	s23
.....ucagaaggcugcguguuca.....	13	0	s23
.....Acagaaggcugcguguuca.....	30	1	s23
.....ucagaCggcugcguguuca.....	1	1	s23
.....Acagaaggcugcguguucaa.....	3	1	s23
.....Acagaaggcugcguguucaag.....	1	1	s23
.....Acagaaggcugcguguucaagucacgucg.....	1	1	s23
.....Aagaaggcugcguguuca.....	10	1	s23
.....cagaaggcugcguguuca.....	5	0	s23
.....agaaggcugcguguucaag.....	1	0	s23
.....agaaggcugcguguucaagucacgucgg.....	1	0	s23
.....gaaggcugcguguucaagucacgucgggggu.....	1	0	s23
.....aaggcugcguguucaagucac.....	1	0	s23
.....aaggcugcguguucaagucacgucgggggu.....	2	0	s23
.....Acugcguguucaagucacgucgggggu.....	1	1	s23
.....Agcguguucaagucacgucgg.....	1	1	s23
.....Agcguguucaagucacgucggg.....	1	1	s23
.....Agcguguucaagucacgucgggg.....	2	1	s23
.....Agcguguucaagucacgucgggggu.....	5	1	s23
.....gcguguucaagucacgucgggggu.....	1	0	s23
.....Aguucaagucacgucgggggu.....	1	1	s23
.....Aagggacuccgugggcgcaaugguagcg.....	1	1	s72
.....agGggacuccgugggcgcaaugguag.....	1	1	s72
.....Agacuccgugggcgcaaugguag.....	2	1	s72
.....Agacuccgugggcgcaaugguagc.....	18	1	s72
.....Agacuccgugggcgcaaugguagcg.....	1	1	s72
.....Agacuccgugggcgcaaugguagcguguc.....	1	1	s72
.....gacuccgugggcgcaaugguagc.....	3	0	s72
.....acuccgugggcgcaaugguagc.....	1	0	s72
.....cuccgugggcgcaaugguagc.....	1	0	s72
.....Acgugggcgcaaugguagcgcgucugac.....	1	1	s72
.....Agggcgcaaugguagcgcgucugacucc.....	1	1	s72
.....aaugguagcgcgucugacucc.....	1	0	s72
.....augguagcgcgucugacuc.....	1	1	s72
.....augguagcgcgucugacucc.....	1	0	s72
.....augguagcgcgucugacuccaga.....	1	0	s72
.....Agguagcgcgucugacucca.....	1	1	s72
.....Auagcgcgucugacuccaga.....	2	1	s72
.....agcgcgucugacuccagaucagaaggcu.....	1	0	s72
.....Aucugacuccagaucagaaggc.....	1	1	s72
.....Acugacuccagaucagaaggcugcguguu.....	4	1	s72
.....Augacuccagaucagaaggcugcgug.....	1	1	s72
.....Augacuccagaucagaaggcugcgug.....	1	1	s72
.....Augacuccagaucagaaggcugcguguu.....	1	1	s72
.....Agacuccagaucagaaggcugcgug.....	1	1	s72
.....Agacuccagaucagaaggcugcgug.....	1	1	s72
.....Agacuccagaucagaaggcugcguguu.....	1	1	s72
.....Agacuccagaucagaaggcugcguguu.....	1	1	s72
.....Aacuccagaucagaaggcugcgug.....	1	1	s72
.....acuccagaucagaaggcugcg.....	2	0	s72
.....acuccaUaucagaaggcugcg.....	2	1	s72
.....acuccagaucagaaggcugcguguu.....	1	0	s72
.....Auccagaucagaaggcugcg.....	1	1	s72
.....Accagaucagaaggcugcgug.....	1	1	s72
.....Accagaucagaaggcugcguguu.....	1	1	s72
.....Accagaucagaaggcugcguguuca.....	1	1	s72

Star Mature

guuucuccaguuuuuacaagggaacaaagauccgcccucaguggacuccguggcgcaaugguagcgcgcugacuccagaucaagaaggcugcguguucaaagucacgucggggu

.....Agaucagaaggcugcguguu.....	1	1	s72
.....agaucagaaggcugcguguuca.....	2	0	s72
.....Aaucagaaggcugcgugu.....	19	1	s72
.....Aaucagaaggcugcgugu.....	8	1	s72
.....Aaucagaaggcugcguguuc.....	2	1	s72
.....Aaucagaaggcugcguguuca.....	11	1	s72
.....Aaucagaaggcugcguguucaag.....	1	1	s72
.....Aaucagaaggcugcguguucaagu.....	1	1	s72
.....aucagaaggcugcguguG.....	1	1	s72
.....aucCgaaggcugcgugu.....	3	1	s72
.....aucagaaggcuUcgugu.....	1	1	s72
.....aucagaaggcugcgugu.....	66	0	s72
.....aucCgaaggcugcguguuc.....	1	1	s72
.....aucagaaggcugcguguuc.....	88	0	s72
.....aucagCaggcugcguguuc.....	1	1	s72
.....aucagaagUcgcguguuca.....	1	1	s72
.....aucagaaggcugcguguuca.....	444	0	s72
.....aucagaAagcugcguguuca.....	1	1	s72
.....aucagCaggcugcguguuca.....	1	1	s72
.....aucagaaggcuUcguguuca.....	2	1	s72
.....aucCgaaggcugcguguuca.....	2	1	s72
.....aucagaCggcugcguguuca.....	4	1	s72
.....aucagaaggcugcguguucaag.....	3	0	s72
.....aucagaaggcugcguguucaagucacg.....	1	0	s72
.....aucagaaggcugcguguucaGgucacguc.....	1	1	s72
.....aucagaaggcugcguguucaagucacgucg.....	2	0	s72
.....aucagaaggcugcguguucaGgucacgucg.....	2	1	s72
.....Acagaaggcugcguguuc.....	15	1	s72
.....ucagaaggcugcguguuc.....	4	0	s72
.....ucagaaggcugcguguuca.....	34	0	s72
.....Acagaaggcugcguguuca.....	17	1	s72
.....ucagCaggcugcguguuca.....	1	1	s72
.....Acagaaggcugcguguucaagucac.....	1	1	s72
.....cagaaggcugcguguuca.....	1	0	s72
.....Aagaaggcugcguguuca.....	6	1	s72
.....cagaCggcugcguguuca.....	1	1	s72
.....cagaaggcugcguguucaagucacgucggg.....	1	0	s72
.....agaaggcugcguguucaag.....	2	0	s72
.....agaaggcugcguguucaagucac.....	1	0	s72
.....agaaggcugcguguucaUgucacgucgg.....	1	1	s72
.....agaaggcugcguguucaagucacgucgggg.....	1	0	s72
.....Aaaggcugcguguucaag.....	1	1	s72
.....Aaaggcugcguguucaagucacg.....	1	1	s72
.....Augcguguucaagucacgucggggu.....	1	1	s72
.....Agcguguucaagucacgucggg.....	1	1	s72
.....Auguucaagucacgucggggu.....	2	1	s72
.....Aguucaagucacgucggg.....	1	1	s72
.....Auucaagucacgucggggu.....	1	1	s72
.....Agacuccguggcgcaaugguagc.....	4	1	s85
.....Agacuccguggcgcaaugguagcg.....	1	1	s85
.....Aguggcgcaaugguagcgcg.....	1	1	s85
.....augguagcgcgcugacuc.....	1	0	s85
.....augguagcgcgcugacucca.....	1	0	s85
.....ugguagcgcgcugacucca.....	1	0	s85
.....Auagcgcgcugacucca.....	1	1	s85
.....Auagcgcgcugacuccaga.....	1	1	s85
.....Acgcgcgcugacuccagaucaaggcugcg.....	1	1	s85
.....Aucugacuccagaucaaggcugcgugu.....	1	1	s85
.....Acugacuccagaucaaggcugcgugu.....	1	1	s85
.....Acugacuccagaucaaggcugcgugu.....	3	1	s85
.....Augacuccagaucaaggcugcg.....	1	1	s85
.....Augacuccagaucaaggcugcgugu.....	1	1	s85
.....Agacuccagaucaaggcu.....	1	1	s85
.....Agacuccagaucaaggcugcg.....	1	1	s85
.....Agacuccagaucaaggcugcg.....	2	1	s85
.....Agacuccagaucaaggcugcgug.....	1	1	s85
.....Agacuccagaucaaggcugcgugu.....	1	1	s85
.....acuccagaucaaggcugcgugu.....	1	0	s85
.....acuccagaucaaggcugcguguuca.....	1	0	s85

Star Mature

guuucuccaguuuuuacaagggaacaaagaucgccucuaugaggacuccguggcgcaaugguagcgcgucugacuccagaucaagaaggcugcgugucaagucacgucggggu

.....Accagaucaagaaggcugcg.....	1	1	s85
.....Accagaucaagaaggcugcguguuca.....	1	1	s85
.....Aagaucagaaggcugcguguuca.....	1	1	s85
.....Aaucagaaggcugcgugu.....	24	1	s85
.....Aaucagaaggcugcguguu.....	18	1	s85
.....Aaucagaaggcugcguguuc.....	11	1	s85
.....Aaucagaaggcugcguguuca.....	26	1	s85
.....Aaucagaaggcugcguguucaagucacg.....	1	1	s85
.....Aaucagaaggcugcguguucaagucacguc.....	2	1	s85
.....aucCgaaggcugcguguu.....	1	1	s85
.....aucagaCggcugcguguu.....	1	1	s85
.....aucagaaggcugcguguu.....	73	0	s85
.....aucagCaggcugcguguuc.....	3	1	s85
.....aucCgaaggcugcguguuc.....	2	1	s85
.....aucagaAagcugcguguuc.....	1	1	s85
.....aucagaaggcugcguguuU.....	5	1	s85
.....aucagaaggcugcguguuc.....	313	0	s85
.....aucagaCggcugcguguuc.....	2	1	s85
.....aucagaaggAugcguguuca.....	1	1	s85
.....aucagaaAagcugcguguuca.....	1	1	s85
.....aucagaaggcuUcguguuca.....	1	1	s85
.....aucagaaggcugcguAuuca.....	1	1	s85
.....aucagCaggcugcguguuca.....	6	1	s85
.....aucagaaggcugcguguuca.....	973	0	s85
.....aucaAaaggcugcguguuca.....	2	1	s85
.....aCagaaggcugcguguuca.....	1	1	s85
.....aucagaaggcugUguguuca.....	1	1	s85
.....aucagaCggcugcguguuca.....	5	1	s85
.....aucagaaggcCgcguguuca.....	2	1	s85
.....aucCgaaggcugcguguuca.....	5	1	s85
.....aucagaaggcuAagcuguuca.....	1	1	s85
.....aucagaaggcugcguguuca.....	1	0	s85
.....aucagaaggcugcguguucaCg.....	1	1	s85
.....aucagaaggcugcguguucaag.....	18	0	s85
.....aucagaaggcugcguguucaagucacguc.....	1	0	s85
.....aucagaaggcugcguguucaagucacgucg.....	5	0	s85
.....ucagaaggcugcguguuc.....	24	0	s85
.....Acagaaggcugcguguuc.....	10	1	s85
.....Acagaaggcugcguguuca.....	42	1	s85
.....ucagaaggcugcguguuca.....	59	0	s85
.....ucagaaggcugcguguuGa.....	1	1	s85
.....ucagaaggcugcguguucC.....	1	1	s85
.....ucagCaggcugcguguuca.....	2	1	s85
.....ucCgaaggcugcguguuca.....	2	1	s85
.....ucagaaggcugcguguucaag.....	1	0	s85
.....Acagaaggcugcguguucaag.....	1	1	s85
.....Acagaaggcugcguguucaaguc.....	1	1	s85
.....ucagaaggcugcguguucaGgucacgucg.....	1	1	s85
.....ucagaaggcugcguguucaGgucacgucgg.....	1	1	s85
.....Aagaaggcugcguguuca.....	8	1	s85
.....cagaaggcugcguguuca.....	13	0	s85
.....cagCaggcugcguguuca.....	1	1	s85
.....cagaaggcugcguguucaagucacguc.....	1	0	s85
.....cagaaggcugcguguucaGgucacgucg.....	1	1	s85
.....cagaaggcugcguguucaagucacgucggg.....	1	0	s85
.....agaaggcugcguguucaag.....	3	0	s85
.....agaaggcugcguguucaaguc.....	1	0	s85
.....agaaggcugcguguucaagucacgucggg.....	1	0	s85
.....agaaggcugcguguucaGgucacgucggg.....	1	1	s85
.....gaaggcugcguguucaag.....	1	0	s85
.....Aaaggcugcguguucaag.....	3	1	s85
.....Aaaggcugcguguucaagucacgucggg.....	1	1	s85
.....aaggcugcguguucaaguc.....	1	0	s85
.....aaggcugcguguucaaguc.....	1	0	s85
.....aaggcugcguguucaagucacgucggg.....	1	0	s85
.....aaggcugcguguucaagucacgucggggu.....	1	0	s85
.....aggcugcguguucaagucacgucggg.....	1	0	s85
.....Acugcguguucaagucacgucggggu.....	1	1	s85
.....Agcguguucaagucacgucggg.....	3	1	s85
.....Agcguguucaagucacgucggg.....	3	1	s85

Star Mature

guuucuccaguuuuuacaagggaacaaagauccgccucuaugggacuccgugggcgcaauugguagcgcgucugacuccagaucaagaaggcugcgugucaagucacgucggggg			
.....Acguguucaagucacgucggg...	1	1	s85
.....Aguguucaagucacgucgg...	1	1	s85
.....Aguguucaagucacgucggg...	2	1	s85
.....Aguucaagucacgucggg...	2	1	s85
.....aagggaacaaagauccgccucuaug...	1	0	s35
.....Aagugacuccgugggcgcaauugguagc...	1	1	s35
.....agugacuccgugggcgcaauugguagcgcg...	1	0	s35
.....Agacuccgugggcgcaauugguagc...	1	1	s35
.....Agacuccgugggcgcaauugguagcgcguc...	1	1	s35
.....Aguggcgcaauugguagcg...	1	1	s35
.....Acgcaauugguagcgcgucg...	1	1	s35
.....Aaaugguagcgcgucugacuccaga...	1	1	s35
.....augguagcgcgucugacuccaAa...	1	1	s35
.....augguagcgcgucugacuccagauc...	1	0	s35
.....augguagcgcgucugacuccagaucagaag...	1	0	s35
.....ugguagcgcgucugacucc...	1	0	s35
.....Agguagcgcgucugacuccagauc...	1	1	s35
.....Agguagcgcgucugacuccagaucagaag...	3	1	s35
.....gguagcgcgucugacuccagaucagaAa...	1	1	s35
.....Agucugacuccagaucagaaggcugcg...	1	1	s35
.....Agucugacuccagaucagaaggcugcg...	1	1	s35
.....Agucugacuccagaucagaaggcugcg...	1	1	s35
.....Aucugacuccagaucagaaggcugcg...	2	1	s35
.....Aucugacuccagaucagaaggcugcgugu...	1	1	s35
.....Acugacuccagaucagaaggcugcg...	2	1	s35
.....Augacuccagaucagaaggcugcg...	1	1	s35
.....Augacuccagaucagaaggcugcg...	1	1	s35
.....Agacuccagaucagaaggcu...	2	1	s35
.....Agacuccagaucagaaggcugcg...	3	1	s35
.....Agacuccagaucagaaggcugcg...	2	1	s35
.....ugacuccagaucagaaggcugcg...	1	0	s35
.....acuccagaucagaaggcugcg...	2	0	s35
.....acuccagaucagaaggcugcguguA...	1	1	s35
.....Auccagaucagaaggcugcgugu...	1	1	s35
.....Auccagaucagaaggcugcguguucaa...	1	1	s35
.....cuccagaucagaaggcugcgugucaa...	1	0	s35
.....Accagaucagaaggcugcg...	1	1	s35
.....Accagaucagaaggcugcg...	2	1	s35
.....uccagaucagaaggcugcgugu...	1	0	s35
.....ccagaucagaaggcugcg...	1	0	s35
.....Acagaucagaaggcugcg...	2	1	s35
.....agaucaaggcugcgugu...	2	0	s35
.....Aaucagaaggcugcgugu...	1	1	s35
.....Aaucagaaggcugcguguuc...	2	1	s35
.....Aaucagaaggcugcguguuca...	7	1	s35
.....Aaucagaaggcugcguguucaag...	1	1	s35
.....aucagaaggcugcgugu...	5	0	s35
.....aucagaaggcugcguguU...	2	1	s35
.....aucagaaggcugcguguuc...	50	0	s35
.....aucagaaggcuAcguguuca...	1	1	s35
.....aucagaaggcugcguguuca...	239	0	s35
.....aucagaaAgcugcguguuca...	1	1	s35
.....aucagaaggcugcgCguuca...	1	1	s35
.....aucagaCggcugcguguuca...	2	1	s35
.....aucagaaggcugcguguucU...	1	1	s35
.....aucagaaggcugcguguucaa...	1	0	s35
.....aucagaCggcugcguguucaag...	1	1	s35
.....aucagaaggcugcguguucaag...	1	0	s35
.....aucagaaggcugcguguucaagu...	1	0	s35
.....aucagaaggcugcguguucaaguc...	3	0	s35
.....aucagaaggcugcguguucaaguca...	2	0	s35
.....aucagaaggcugcguguucaaguacg...	2	0	s35
.....aucagaaggcugcguguucaaguacguc...	1	0	s35
.....aucagaaggcugcguguucaaguacguc...	3	0	s35
.....ucagaaggcugcguguuc...	1	0	s35
.....Acagaaggcugcguguuc...	10	1	s35
.....Acagaaggcugcguguuca...	26	1	s35
.....ucagaaggcugcguguuca...	16	0	s35
.....Acagaaggcugcguguucaagucacguc...	1	1	s35

Star Mature

guuucuaaccaguuuuuacaagggaacaaagaucgccucuaguggacuccgugggcgcaauugguagcgcgucugacuccagaucaagaaggcugcguguucaaagucacgucgggggu			
.....Acagaaggcugcguguucaaagucacgucgg...	3	1	s35
.....cagaaggcugcguguuca.....	1	0	s35
.....Aagaaggcugcguguuca.....	17	1	s35
.....Aagaaggcugcguguucaag.....	1	1	s35
.....Aagaaggcugcguguucaagu.....	3	1	s35
.....Aagaaggcugcguguucaaguc.....	1	1	s35
.....cagaaggcugcguguucaaagucacgucg...	1	0	s35
.....Aagaaggcugcguguucaaagucacgucgg...	1	1	s35
.....agaaggcugcguguucaag.....	2	0	s35
.....agaaggcugcguguucaaguc.....	1	0	s35
.....agaaggcugcguguucaUgucacgucggg...	3	1	s35
.....Aaaggcugcguguucaagucacgucg...	1	1	s35
.....gaaggcugcguguucaaagucacgucgggggu	1	0	s35
.....aaggcugcguguucaaagucacgucgg...	1	0	s35
.....Agcguguucaagucacgucgg...	2	1	s35
.....Agcguguucaagucacgucggg...	3	1	s35
.....Agcguguucaagucacgucgggg...	2	1	s35
.....Aguguucaagucacgucgg...	1	1	s35
.....Aguguucaagucacgucgggg...	2	1	s35
.....Aguguucaagucacgucgggggu	1	1	s35
.....Aguucaagucacgucggg...	2	1	s35
.....Aguucaagucacgucgggg...	1	1	s35
.....agggaaacaaagaucgccucuagug.....	1	0	s60
.....Aucuaguggacuccgugggcgcaauuguagc.....	1	1	s60
.....Aaguggacuccgugggcgcaauuguagc.....	1	1	s60
.....Agacuccgugggcgcaauuguag.....	2	1	s60
.....Agacuccgugggcgcaauuguagc.....	22	1	s60
.....Agacuccgugggcgcaauuguagcgcgucu.....	1	1	s60
.....Agacuccgugggcgcaauuguagcgcgucg.....	2	1	s60
.....acuccgugggcgcaauuguagc.....	2	0	s60
.....Acgugggcgcaauuguagc.....	2	1	s60
.....Agggcgcaauuguagcgcgucugacucc.....	1	1	s60
.....Aaauuguagcgcgucugac.....	1	1	s60
.....Aaauuguagcgcgucugacucca.....	1	1	s60
.....Aaauuguagcgcgucugacuccaga.....	2	1	s60
.....aauguagcgcgucugacu.....	1	0	s60
.....augguagcgcgucugacuc.....	1	0	s60
.....augguagcgcgucugacucc.....	1	0	s60
.....augguagcgcgucugacuccag.....	1	0	s60
.....augguagcgcgucugacuccagau.....	1	0	s60
.....augguagcgcgucugacuccagauc.....	2	0	s60
.....augguagcgcgucugacuccagauc.....	1	0	s60
.....Auagcgcgucugacucca.....	1	1	s60
.....cgcgucugacuccagauc.....	1	0	s60
.....Acgucugacuccagaucagaaggcugcg.....	1	1	s60
.....Agucugacuccagaucagaaggcugcg.....	1	1	s60
.....Agucugacuccagaucagaaggcugcg.....	1	1	s60
.....Aucugacuccagaucagaaggcugcg.....	1	1	s60
.....gucugacuccagaucagaaggcugcguguu.....	1	0	s60
.....Acugacuccagaucagaaggcu.....	1	1	s60
.....Acugacuccagaucagaaggcugcguguu.....	2	1	s60
.....Augacuccagaucagaaggc.....	1	1	s60
.....Augacuccagaucagaaggcug.....	2	1	s60
.....Agacuccagaucagaaggg.....	1	1	s60
.....Agacuccagaucagaaggcug.....	2	1	s60
.....Agacuccagaucagaaggcugcgug.....	1	1	s60
.....Aacuccagaucagaaggcugcguguucaag.....	2	1	s60
.....acuccagaucagaaggcugcg.....	1	0	s60
.....acuccagaucagaaggcugcg.....	2	0	s60
.....acuccCgaucagaaggcugcgug.....	1	1	s60
.....acuccagaucagaaggcugcgugu.....	2	0	s60
.....acuccagaucagaaggcugcguguu.....	1	0	s60
.....acuccagaucagaaggcugcguguuca.....	1	0	s60
.....acuccagaucagaaggcugcguguucaag.....	1	0	s60
.....Accagaucagaaggcugcg.....	2	1	s60
.....Accagaucagaaggcugcg.....	3	1	s60
.....Accagaucagaaggcugcgugu.....	2	1	s60
.....uccagaucagaaggcugcguguu.....	1	0	s60

Star Mature

guuuccuaccaguuuuuacaagggaacaaagauccgccucuaugggacuccguggcgcaauugguagcgcgucugacuccagaucaagaaggcugcguguucaaagucacgucgggggu

.....ccagaucaagaaggcugcg.....	1	0	s60
.....Acagaucaagaaggcugcg.....	1	1	s60
.....ccagaucaagaaggcugcg.....	1	1	s60
.....Aaucagaaggcugcgugu.....	28	1	s60
.....Aaucagaaggcugcgugu.....	9	1	s60
.....Aaucagaaggcugcguguuc.....	2	1	s60
.....Aaucagaaggcugcguguuca.....	10	1	s60
.....aucagaaggcugcgugu.....	39	0	s60
.....aucCgaaggcugcguguuc.....	1	1	s60
.....aucagaaggcugcguguuc.....	70	0	s60
.....aucagaaggcugcguguuA.....	1	1	s60
.....aucagaaggcugcguguuca.....	288	0	s60
.....aucCgaaggcugcguguuca.....	3	1	s60
.....aucagaaAgcugcguguuca.....	2	1	s60
.....aucagaaggcCcguguuca.....	1	1	s60
.....aucagaagCcguguuca.....	1	1	s60
.....aucagCaggcugcguguuca.....	2	1	s60
.....aucagaCggcugcguguuca.....	2	1	s60
.....aucagaaggcugcguguucaag.....	5	0	s60
.....aucagaaggcugcguguucaaguc.....	1	0	s60
.....ucagaaggcugcguguuA.....	1	1	s60
.....ucagaaggcugcguguuc.....	6	0	s60
.....Acagaaggcugcguguuc.....	7	1	s60
.....ucagaaggcugcguguuca.....	20	0	s60
.....Acagaaggcugcguguuca.....	18	1	s60
.....Acagaaggcugcguguucaagucac.....	1	1	s60
.....cagaaggcugcguguuca.....	5	0	s60
.....Aagaaggcugcguguuca.....	12	1	s60
.....cagaaggcugcguguucaagu.....	1	0	s60
.....agaaggcugcguguucaagu.....	1	0	s60
.....agaaggcugcguguucaaguca.....	2	0	s60
.....agaaggcugcguguucaagucacgucg.....	2	0	s60
.....Aaaggcugcguguucaag.....	1	1	s60
.....Aaaggcugcguguucaagucacg.....	1	1	s60
.....Aaaggcugcguguucaagucacgucggg.....	1	1	s60
.....aaggcugcguguucaagucacg.....	1	0	s60
.....aaggcugcgugCucaagucacgucgggg.....	1	1	s60
.....Agcguguucaagucacgucggg.....	1	1	s60
.....Agcguguucaagucacgucgggg.....	1	1	s60
.....Acguguucaagucacgucgg.....	1	1	s60
.....Aguguucaagucacgucgg.....	1	1	s60
.....Acugacuccagaucaagaaggc.....	1	1	s09
.....Aaucagaaggcugcgugu.....	2	1	s09
.....Aaucagaaggcugcgugu.....	1	1	s09
.....Aaucagaaggcugcguguuca.....	2	1	s09
.....aucagaaggcugcgugu.....	3	0	s09
.....aucCgaaggcugcguguuc.....	1	1	s09
.....aucagaaggcugcguguuc.....	18	0	s09
.....aucaAaaggcugcguguuca.....	1	1	s09
.....aucCgaaggcugcguguuca.....	1	1	s09
.....aucagaCggcugcguguuca.....	1	1	s09
.....aucagaaggcugcguguuca.....	151	0	s09
.....aucagaaggcugcguguucaag.....	2	0	s09
.....aucagaaggcugcguguucaagucac.....	1	0	s09
.....ucagaaggcugcguguuc.....	1	0	s09
.....Acagaaggcugcguguuca.....	17	1	s09
.....ucagaaggcugcguguuca.....	11	0	s09
.....cagaaggcugcguguuca.....	2	0	s09
.....Aagaaggcugcguguuca.....	7	1	s09
.....Aagaaggcugcguguucaagucacgucgg.....	1	1	s09
.....agaaggcugcguguucaag.....	2	0	s09
.....Aaaggcugcguguucaagucacgucggg.....	1	1	s09
.....gaaggcugcguguucaagucacgucgggg.....	1	0	s09
.....Agcguguucaagucacgucggg.....	2	1	s09
.....Agcguguucaagucacgucgggg.....	1	1	s09
.....Acguguucaagucacgucgggg.....	1	1	s09
.....Aguguucaagucacgucggg.....	2	1	s09
.....Aguguucaagucacgucgggg.....	1	1	s09
.....Aguucaagucacgucggg.....	2	1	s09

Star Mature

guuucuaaccaguuuuuacaagggaacaaagaucgccucuaaguggacuccgugggcg	caauggguagcgcgucugacuccaga	ucaagaaggcugcguguucaagucacgucggggu			
.....Aaaugguagcgcgucugac.....			1	1	s13
.....Agacuccagaucagaaggcugcguguuc.....			1	1	s13
.....Aacuccagaucagaaggcugcguguuc.....			1	1	s13
.....Aaucagaaggcugcguguu.....			2	1	s13
.....Aaucagaaggcugcguguuc.....			1	1	s13
.....Aaucagaaggcugcguguuca.....			8	1	s13
.....aucagaaggcugcguguu.....			7	0	s13
.....aucagaaggcugcguguuc.....			45	0	s13
.....aucagaaggcugcguguuc.....			1	1	s13
.....aucagaaggcugcguguuc.....			1	1	s13
.....aucCgaaggcugcguguuc.....			1	1	s13
.....aucagaaggcugcguguucC.....			1	1	s13
.....aucagaaggcugcguguuca.....			222	0	s13
.....aucCgaaggcugcguguuca.....			1	1	s13
.....aucagaaggcugcguguuca.....			3	1	s13
.....aucagaaggcugcguguuca.....			1	1	s13
.....aucagCaggcugcguguuca.....			1	1	s13
.....aucagaaggcCgcguguuca.....			1	1	s13
.....aucagaaggcugcguguucaag.....			3	0	s13
.....ucagaaggcugcguguuc.....			1	1	s13
.....ucagaaggcugcguguuc.....			3	0	s13
.....Acagaaggcugcguguuc.....			3	1	s13
.....ucagCaggcugcguguuca.....			1	1	s13
.....Acagaaggcugcguguuca.....			28	1	s13
.....ucagaaggcugcguguuca.....			22	0	s13
.....Acagaaggcugcguguucaagu.....			1	1	s13
.....ucagaaggcugcguguucaGgucacgucg.....			1	1	s13
.....cagaaggcugcguguuca.....			1	0	s13
.....Aagaaggcugcguguuca.....			23	1	s13
.....Aagaaggcugcguguucaag.....			1	1	s13
.....cagaaggcugcguguucaagu.....			1	0	s13
.....Aagaaggcugcguguucaagucac.....			1	1	s13
.....Aagaaggcugcguguucaagucacguc.....			1	1	s13
.....agaaggcugcguguucaag.....			2	0	s13
.....Aaaggcugcguguucaag.....			1	1	s13
.....gaaggcugcguguucaGgucacgucg.....			1	1	s13
.....Agcguguucaagucacgucggg.....			2	1	s13
.....Agcguguucaagucacgucggggu.....			2	1	s13
.....Acguguucaagucacgucggg.....			1	1	s13