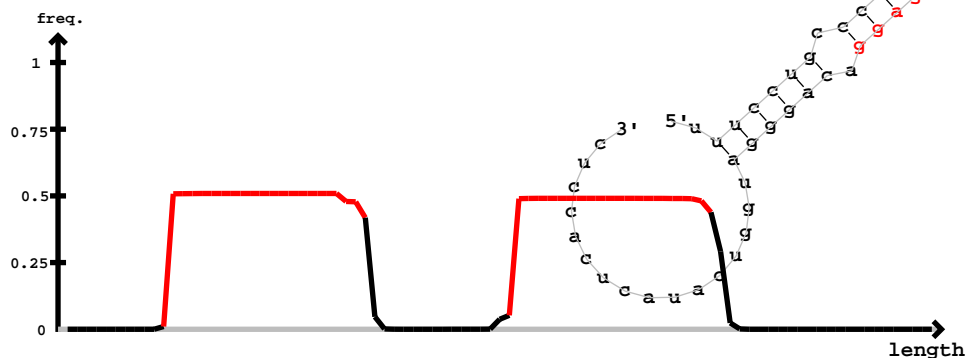


A diagram of a long RNA hairpin structure. The stem is composed of base pairs (A-U, G-C) and is highlighted in red. The loop at the top is composed of unpaired nucleotides (A, U, G, C) and is highlighted in black. An arrow labeled "length" points to the right, indicating the direction of increasing length.



hsa-miR-151a-5p

hsa-miR-151b

5'-	-3'	exp
uuuccugcccucaggagagcucacagucuauguugucuauccccaucagacugaagcucucgagggaucgggauggucaucacaccuc ((((((((((((((((((((((((((((((.) .))))))))))) .)))))))))).))))))). (((.))) .	reads	mm sample
. cucgaggagcucacagucu	13	0 seq
. cucgaggagcucacagucuag	1	0 seq
. Uucgaggagcucacagucuag	1	1 seq
. ucgcGggagcucacagucuagu	1	1 seq
. cucgaggagcucacagucuagu	23	0 seq
. Uucgaggagcucacagucuagu	3	1 seq
. cucgaggagcucacagucuagua	4	0 seq
. ucgcGggagcucacagucuagua	1	1 seq
. ucgcgaggagcucacagucuaguU	1	1 seq
. ucgaggagcucacagucu	124	0 seq
. ucgaggagcucaUagucu	1	1 seq
. uUgaggagcucacagucu	1	1 seq
. ucgcGggagcucacagucu	1	1 seq
. ucgaggagcucacagucia	5	0 seq
. Acgaggagcucacagucia	1	1 seq
. ucgaggagcucacaguciaA	1	1 seq
. ucgcGggagcucacagucuag	3	1 seq
. ucgaggagcucacagucuag	272	0 seq
. ucgaggagcCcacagucuagu	1	1 seq
. ucUaggagcucacagucuagu	1	1 seq
. uUgaggagcucacagucuagu	4	1 seq
. ucgaggagcucacagucuCgu	2	1 seq
. ucgcGggagcucacagucuagu	5	1 seq
. ucgaggagGuacacagucuagu	2	1 seq
. ucgagggaAcucacagucuagu	1	1 seq
. Ccgaggagcucacagucuagu	2	1 seq
. ucgaggagcucacagucuagC	1	1 seq
. ucgagggaCcucacagucuagu	1	1 seq
. Acgaggagcucacagucuagu	2	1 seq
. ucgaCgagcucacagucuagu	1	1 seq
. ucgaggagcucacaguUuagu	1	1 seq
. ucgaggagcucaUagucuagu	3	1 seq
. ucgaggagcucacagCcuagu	1	1 seq

hsa-miR-151a-5p

.....ucgaggagcucacUgucuagu.....	1	1	seq
.....ucgaggagcucacCgucuagu.....	6	1	seq
.....ucgaggagcucacagucuagG.....	2	1	seq
.....ucgaggagcGcacagucuagu.....	1	1	seq
.....ucgagAagcucacagucuagu.....	1	1	seq
.....ucgaggagcUacagucuagu.....	2	1	seq
.....ucAaggagcucacagucuagu.....	2	1	seq
.....ucgaggagcucacagucuagu.....	1655	0	seq
.....ucgaggagcucacaCucuagu.....	1	1	seq
.....ucgaggagcucacagucCagu.....	1	1	seq
.....ucgaggagcucacagAcuagua.....	1	1	seq
.....ucgaggagcucacagucuagua.....	201	0	seq
.....ucgCggagcucacagucuagua.....	1	1	seq
.....ucgaggagcucacagucuaguU.....	2	1	seq
.....ucgaggagcucacagucuaguaA.....	4	1	seq
.....ucgaggagcucacagucuaguaAg.....	1	1	seq
.....cgaggagcucacagucuagua.....	1	0	seq
.....cgaggagcucacagucuaguaA.....	1	1	seq
.....gaggagcucacagucuagu.....	2	0	seq
.....aggagcucacagucuagu.....	2	0	seq
.....uccccuacuagacugaagcu.....	1	0	seq
.....cuacuagacugaagcuccuugagA.....	1	1	seq
.....Uuacuagacugaagcuccuugagg.....	1	1	seq
.....uacuagacugaagcuccu.....	2	0	seq
.....uacuagacugaagcuccuug.....	1	0	seq
.....uacuagacugaagcuccuuga.....	10	0	seq
.....uacuagacugaagcuccuugU.....	1	1	seq
.....uacuagacugaagcuccuugag.....	72	0	seq
.....uacuagacugaagcuccuugaA.....	1	1	seq
.....uacuCGacugaagcuccuugag.....	10	1	seq
.....uacuCGacugaagcuccuugagg.....	2	1	seq
.....uacuagacugaagcuccuugagU.....	4	1	seq
.....uacuagacugaagcuccuugagg.....	28	0	seq
.....uacuagacugaagcuccuugagA.....	32	1	seq
.....uacuagacugaagcuccuugaggU.....	2	1	seq
.....uacuagacugaagcuccuugagga.....	6	0	seq
.....uacuagacugaagcuccuugagAa.....	1	1	seq
.....acuagacugaagcuccuugag.....	27	0	seq
.....Ccuagacugaagcuccuugag.....	3	1	seq
.....acuagacugaagcuccuugagg.....	12	0	seq
.....acuagacugaagcuccuugagU.....	2	1	seq
.....Ccuagacugaagcuccuugagg.....	2	1	seq
.....acuagacugaagcuccuugagA.....	5	1	seq
.....acuagacugaagcuccuugaggU.....	6	1	seq
.....aUuagacugaagcuccuugagga.....	1	1	seq
.....acuagacugaagcuccuugagga.....	2	0	seq
.....Ccuagacugaagcuccuugagga.....	9	1	seq
.....cuagacugaagcuccuug.....	3	0	seq
.....cuagCcugaagcuccuuga.....	2	1	seq
.....cuaCacugaagcuccuuga.....	1	1	seq
.....cuagacugaagcuccuuga.....	24	0	seq
.....cuagacugaagcuccuugag.....	76	0	seq
.....cuagacugaagcuccuugaA.....	2	1	seq
.....Uuagacugaagcuccuugag.....	2	1	seq
.....cuagCcugaagcuccuugag.....	6	1	seq
.....cuagUcuugaagcuccuugagga.....	1	1	seq
.....cuagacugaagcuccuugUgg.....	1	1	seq
.....cuagacugaagcuccuugagA.....	285	1	seq
.....cCagacugaagcuccuugagg.....	1	1	seq
.....cuagacCGaagcuccuugagg.....	1	1	seq
.....cuagacugaagUuccuugagg.....	1	1	seq
.....cuaCacugaagcuccuugagg.....	1	1	seq
.....cuagacugaagcuccuugagg.....	252	0	seq
.....cuagacugaagcuccuugGgg.....	1	1	seq
.....cuagacugaagcuccuugagU.....	27	1	seq
.....Auagacugaagcuccuugagg.....	1	1	seq
.....cuagCcugaagcuccuugagg.....	20	1	seq
.....cuagacugaagcuUcuugagga.....	4	1	seq

uuuccugccchcgaggagctttttcagucuaguagucucacccccuacuagacugaagcuccuagaggacagggauggucauacucaccuc

.....cCagacugaagcuccuugagga.....	1	1	seq
.....cAagacugaagcuccuugagga.....	1	1	seq
.....cuagacugaagcuccuugaggG.....	5	1	seq
.....cuagacugaagcuccuugCgga.....	1	1	seq
.....cuagacugaCgcuccuugagga.....	1	1	seq
.....cuagacugaagcuccuugagAa.....	16	1	seq
.....cuagacCgaagcuccuugagga.....	1	1	seq
.....cuagacugaagcuccuugagga.....	935	0	seq
.....cuagacugaagcuccuugaAga.....	2	1	seq
.....cuagacugaagcuccuugaggU.....	173	1	seq
.....cuagacugGagcuccuugagga.....	1	1	seq
.....cuagacugaUgcuccuugagga.....	1	1	seq
.....cuagacugaagcuccuuCagga.....	1	1	seq
.....cuGgacugaagcuccuugagga.....	1	1	seq
.....cuagacugaagcuccuugGgga.....	1	1	seq
.....cuagacugCagcuccuugagga.....	3	1	seq
.....cuagGcuagaagcuccuugagga.....	1	1	seq
.....cuagCcugaagcuccuugagga.....	71	1	seq
.....cuagacuCaagcuccuugagga.....	1	1	seq
.....cuagacugaagcuccuugaggaU.....	62	1	seq
.....cuagacugaagcuccuugaggaA.....	42	1	seq
.....cuagacugaagcuccuugaggaAa.....	5	1	seq
.....uagacugaagcuccuugagg.....	2	0	seq
.....uagacugaagcuccuugagA.....	1	1	seq
.....uagacugaagcuccuugaggaU.....	1	1	seq
.....agacugaagcuccuugagga.....	1	0	seq
.....agacugaagcuccuugaggacU.....	1	1	seq