



5' -	-3'	obs	
		exp	
caguucccuaguaagaacugcuaaaacucaucucugggucgacaccagac <u>uaagcaccuguccuugaggc</u> cugagguaguagauugaauaguugugggguaauauguccucccu			
caguucccuaguaagaacugcuaaaacucaucucugggucgacaccaga <u>uaagcaccuguccuugaggc</u> cugagguaguagauugaauaguugugggguaauauguccucccu			
(((((.....)))))).....(((.....(((.....(((.....(((.....(((.....)))))).....)))))).....))))). reads mm sample			
.....uaagcaccuguccuugaggc.....	3	0	s02
.....uaagcGccuguccuugaggcu.....	1	1	s02
.....aagcaccuguccuugaggc.....	3	0	s02
.....cugagguaguagauugaauag.....	1	0	s02
.....cugagguaguagauugaauagG.....	2	1	s02
.....cugagguaguagauugaauagu.....	30	0	s02
.....cugagguaguagCuugaauagu.....	1	1	s02
.....cugaggGaguagauugaauaguu.....	1	1	s02
.....cugagguaguagauugaauaguu.....	39	0	s02
.....cugagguaguGgaauugaauagu.....	1	1	s02
.....ugaggGaguagauugaau.....	2	1	s02
.....ugagguaguagauugaau.....	8	0	s02
.....ugaggGaguagauugaaua.....	2	1	s02
.....ugagguaguagauugaaua.....	6	0	s02
.....ugagguaguagauugaauaA.....	1	1	s02
.....ugagguaguagauugaauag.....	127	0	s02
.....ugagguaguagauugaauaU.....	1	1	s02
.....ugagguaguagCuugaauag.....	3	1	s02
.....ugagguaguagauugCauag.....	1	1	s02
.....ugaggGaguagauugaauag.....	9	1	s02
.....ugagguaguagauugaUuagu.....	1	1	s02
.....ugagguaguagauugaauUgu.....	5	1	s02
.....ugaggCaguagauugaauagu.....	2	1	s02
.....ugagguaguagauugGauagu.....	6	1	s02
.....ugagguaAuagauugaauagu.....	1	1	s02
.....ugagguaguagauugaauagA.....	26	1	s02
.....ugagguaCuagauugaauagu.....	1	1	s02
.....Ngagguaguagauugaauagu.....	3	1	s02
.....ugagguaguagauugCauagu.....	3	1	s02
.....ugagguaguagauugUauagu.....	6	1	s02
.....ugagguaguagauugaauCgu.....	1	1	s02
.....ugCgguaguagauugaauagu.....	6	1	s02
.....uqaqGGuagauugaauagu.....	221	1	s02

Star Mature

caguucccuaguaagaacugcuaaaacucaucucugggucgacaccagacuaagcaccuguccuugaggcugagguaguagauugaauaguugugggguaauaugucccccu

.....ugaggAaguagauugaauagu.....	7	1	s02
.....ugagguUguagauugaauagu.....	1	1	s02
.....ugagguagCagauugaauagu.....	9	1	s02
.....ugagguaguagUuugaauagu.....	1	1	s02
.....uNagguaguagauugaauagu.....	2	1	s02
.....ugagguaguagGuugaauagu.....	21	1	s02
.....ugagguaguaCauugaauagu.....	1	1	s02
.....ugagguCguagauugaauagu.....	1	1	s02
.....ugagguagAgaauugaauagu.....	5	1	s02
.....ugagguaguGgaauugaauagu.....	2	1	s02
.....ugagguaguCgaauugaauagu.....	1	1	s02
.....ugagguaguagauugaauagG.....	64	1	s02
.....ugagguaguagauugaauaAu.....	1	1	s02
.....ugagguaguagauUaaauagu.....	1	1	s02
.....ugagguaguagCuugaauagu.....	9	1	s02
.....ugagguaguagauugaauagC.....	18	1	s02
.....ugagguaguagauugaaCagu.....	1	1	s02
.....ugagguaguagauugaauGgu.....	1	1	s02
.....ugagguaguagauugaauagu.....	3193	0	s02
.....uAagguaguagauugaauagu.....	1	1	s02
.....ugagguaguagauugaaAagu.....	1	1	s02
.....ugagguaguagauCgaauagu.....	1	1	s02
.....ugagguagGagauugaauagu.....	6	1	s02
.....Ggagguaguagauugaauagu.....	1	1	s02
.....ugagguaguagaGugaauagu.....	1	1	s02
.....ugagguaguagauugaauagCu.....	194	1	s02
.....Cgagguaguagauugaauaguu.....	9	1	s02
.....ugUgguaguagauugaauaguu.....	17	1	s02
.....Ggagguaguagauugaauaguu.....	7	1	s02
.....ugagguaguGgaauugaauaguu.....	58	1	s02
.....ugagguaguagauugaauUguu.....	93	1	s02
.....ugagguaguagauugaauaguC.....	9	1	s02
.....uAagguaguagauugaauaguu.....	20	1	s02
.....ugagguaguagaGugaauaguu.....	41	1	s02
.....ugagguaguagauugaaGaguu.....	37	1	s02
.....ugagguaguagauuCaauaguu.....	27	1	s02
.....ugagguaguUgaauugaauaguu.....	3	1	s02
.....ugaggCaguagauugaauaguu.....	101	1	s02
.....ugagguagGagauugaauaguu.....	200	1	s02
.....ugagguaguagauugaGuaguu.....	19	1	s02
.....uUagguaguagauugaauaguu.....	66	1	s02
.....ugaCguaguagauugaauaguu.....	5	1	s02
.....uNagguaguagauugaauaguu.....	16	1	s02
.....ugagguaguagauugaCuaguu.....	28	1	s02
.....ugagguaguaCauugaauaguu.....	9	1	s02
.....ugagguaguagCuugaauaguu.....	154	1	s02
.....ugagguaguagauugaauUuu.....	12	1	s02
.....Agagguaguagauugaauaguu.....	10	1	s02
.....ugagguaguagauugaUuaguu.....	20	1	s02
.....ugaUguaguagauugaauaguu.....	38	1	s02
.....ugagAuaguagauugaauaguu.....	12	1	s02
.....ugagguaguagauugGauaguu.....	122	1	s02
.....ugagguaguagauAaaauaguu.....	16	1	s02
.....ugagCuaguagauugaauaguu.....	10	1	s02
.....ugagguagAgaauugaauaguu.....	52	1	s02
.....ugagguaguagauugaauagGu.....	659	1	s02
.....ugagguaguagauugCauaguu.....	66	1	s02
.....ugaggAaguagauugaauaguu.....	239	1	s02
.....ugaAguaguagauugaauaguu.....	1	1	s02
.....ugagguaguagauugaaCaguu.....	47	1	s02
.....ugagguaguagauugaauCguu.....	126	1	s02
.....ugagguaguagauugaaAaguu.....	9	1	s02
.....ugagguauUagauugaauaguu.....	1	1	s02
.....ugagguaguagaAugauaguu.....	4	1	s02
.....ugaggGaguagauugaauaguu.....	4535	1	s02
.....ugagguaguagauugaauaCu.....	6	1	s02
.....ugagguaguagauugaauGguu.....	48	1	s02
.....ugagguuCuagauugaauaguu.....	2	1	s02
.....ugagguCguagauugaauaguu.....	22	1	s02
.....ugagguaguagauugaauagAu.....	74	1	s02

Star Mature

caguucccuagaaagaacugcuaaaacucaucucugggucgacaccagacuaagcaccuguccuugaggcugagguaguagauugaauaguugugggguaauaugucccccu			
.....ugagguaguagauugaauaguG.....	21	1	s02
.....ugagguaguagauugUauaguu.....	129	1	s02
.....ugagguaguaUauugaauaguu.....	3	1	s02
.....Ngagguaguagauugaauaguu.....	47	1	s02
.....ugagguaguCgauugaauaguu.....	18	1	s02
.....ugagguaguagauugaauaguu.....	53066	0	s02
.....ugagguaguagauugaauaAu.....	25	1	s02
.....ugagguagCagauugaauaguu.....	49	1	s02
.....ugagguaguagauCgaauaguu.....	3	1	s02
.....uCagguaguagauugaauaguu.....	5	1	s02
.....ugagguaguagUuugaauaguu.....	42	1	s02
.....ugagguaguagauCgaauaguu.....	12	1	s02
.....ugGggguaguagauugaauaguu.....	73	1	s02
.....ugagguaguagauUaaauaguu.....	12	1	s02
.....ugagguaguaAauugaauaguu.....	4	1	s02
.....ugagguUguagauugaauaguu.....	20	1	s02
.....ugagguAaagauugaauaguu.....	21	1	s02
.....ugagguaguagGuugaauaguu.....	424	1	s02
.....ugagguGguagauugaauaguu.....	24	1	s02
.....ugagguaguagaCugaauaguu.....	10	1	s02
.....ugagUuaguagauugaauaguu.....	1	1	s02
.....ugagguaguagauugaauaguA.....	46	1	s02
.....ugCgguaguagauugaauaguu.....	301	1	s02
.....ugagguaguagauugaauaguuC.....	11	1	s02
.....ugagguaguagCuugaauaguug.....	1	1	s02
.....ugagguaguagauugaauaguUA.....	512	1	s02
.....ugagguaguagauugaauagGug.....	7	1	s02
.....ugagguagCagauugaauaguug.....	1	1	s02
.....ugagguaguagauugaauaguug.....	197	0	s02
.....ugagguaguagauugUauaguug.....	2	1	s02
.....ugCgguaguagauugaauaguug.....	4	1	s02
.....ugagguaguagauugaauaguGg.....	1	1	s02
.....ugagguAaagauugaauaguug.....	1	1	s02
.....ugagguaguagauugaauaguU.....	2204	1	s02
.....ugagguaguagGuugaauaguug.....	1	1	s02
.....ugagguaguagauugGauaguug.....	1	1	s02
.....ugagguaguagauugaauaAuug.....	1	1	s02
.....ugagguaguagauugaauagCug.....	3	1	s02
.....ugagguaguagauugaauaCguug.....	1	1	s02
.....ugagguaguGgauugaauaguug.....	1	1	s02
.....ugaggAaguagauugaauaguug.....	1	1	s02
.....ugaggGaguagauugaauaguug.....	21	1	s02
.....ugaggGaguagauugaauaguugu.....	2	1	s02
.....ugagguaguagauugaauaguUA.....	6	1	s02
.....ugagguaguagauugaauaguUG.....	3	1	s02
.....ugagguaguagauugaauaguGA.....	3	1	s02
.....ugagguaguagauugaauaguUU.....	37	1	s02
.....ugaggAaguagauugaauaguugu.....	1	1	s02
.....ugagguaguagauugaauaguugC.....	1	1	s02
.....ugagguaguagauugaauagGugu.....	2	1	s02
.....ugagguaguagauugaauaguugu.....	58	0	s02
.....ugagguaguagauugaauaguugug.....	12	0	s02
.....ugagguaguagauugaauaguugGg.....	1	1	s02
.....ugaggGaguagauugaauaguugug.....	1	1	s02
.....ugagguaguagauugaauaguugUG.....	5	1	s02
.....gagguaguagauugaauagG.....	1	1	s02
.....gagguaguagauugaauagu.....	2	0	s02
.....gagguaguagauugaauagGu.....	6	1	s02
.....gagguaguagauugCauaguu.....	2	1	s02
.....gagguaguagauugaauaguu.....	82	0	s02
.....gagguaguagauugaaCaguu.....	1	1	s02
.....gagguaguCgauugaauaguu.....	1	1	s02
.....gagguagGagauugaauaguu.....	1	1	s02
.....gagguaguagCuugaauaguu.....	3	1	s02
.....gaggGaguagauugaauaguu.....	1	1	s02
.....gaggGaguagauugaauaguug.....	1	1	s02
.....gagguaguagauugaauaguU.....	6	1	s02
.....gagguaguagauugaauaguug.....	129	0	s02
.....gagguaguagauugGauaguug.....	1	1	s02
.....gagguaguagCuugaauaguug.....	3	1	s02

Star Mature

caguucccuagaaagaacugcuaaaaacucaucucugggucgacaccagacuaagcaccuguccuugaggcugagguaguagauugaauaguugugggguaauaugucccccu			
.gagguaguagauugCauaguug	2	1	s02
.gagguaguagauugaauaguUA	4	1	s02
.gagguaguagauugaauagGug	19	1	s02
.gagguaguagauugaCuaguug	1	1	s02
.gagguaguCgauugaauaguug	1	1	s02
.gagguaguagauuUaauguug	1	1	s02
.gagguaguagauugaauagGugu	2	1	s02
.gagguaguagauugaauaguUA	4	1	s02
.gagguaguagauugaauaguugu	23	0	s02
.gagguaguagauugaauaguugG	1	1	s02
.gagguaguagauugaauaguuguG	2	0	s02
.aggguaguagauugaauagu	1	0	s02
.aggguaguagauugaauaguU	5	0	s02
.ggguaguagauugaauaguU	5	0	s02
.gUuaguagauugaauaguU	1	1	s02
.guaguagauugaauaguU	1	0	s02
.guaguagauugaauaguUU	1	1	s02
uaagcaccuguccuugaggc	1	0	s01
.aagcaccuguccuugaggc	1	0	s01
.cugagguaguagauugaauagu	5	0	s01
.cugagguaguagauugaauaguU	13	0	s01
.cugagguaguagauugaauaguUU	2	1	s01
.ugagguaguagauugaau	3	0	s01
.ugagguaguagauugaauag	9	0	s01
.ugagguauAguagauugaauag	1	1	s01
.ugagguaguagauugaauagu	238	0	s01
.ugagguaguagauugaauagA	2	1	s01
.ugCggguaguagauugaauagu	1	1	s01
.ugagguaguagauugaauCagu	1	1	s01
.ugagguaguagauugaauagG	1	1	s01
.ugagguaguagauugaauagCu	15	1	s01
.AgagguaguagauugaauaguU	4	1	s01
.ugaggCaguagauugaauaguU	10	1	s01
.ugagguaguGgauugaauaguU	14	1	s01
.ugagguaguagaCugaauaguU	3	1	s01
.ugagguaguagauugaauUguU	7	1	s01
.ugagguaguagauugaauGguU	7	1	s01
.ugagguaguagauuUaauguU	2	1	s01
.uAagguaguagauugaauaguU	2	1	s01
.ugagguCguagauugaauaguU	3	1	s01
.ugagguagCaguugaauaguU	3	1	s01
.ugagguaguagauugaauCguU	23	1	s01
.ugagguaguagauugGauaguU	11	1	s01
.ugaggGaguagauugaauaguU	185	1	s01
.ugagguagGaguugaauaguU	7	1	s01
.ugagguauAguagauugaauaguU	1	1	s01
.ugagguaguagauuCaauaguU	2	1	s01
.ugagguaguagauugaauaguU	11216	0	s01
.ugagguUguagauugaauaguU	5	1	s01
.ugagguaguauUauugaauaguU	1	1	s01
.ugagguaguagauugaauagGu	38	1	s01
.uCagguaguagauugaauaguU	2	1	s01
.ugagguGguagauugaauaguU	3	1	s01
.ugagguaguCgauugaauaguU	2	1	s01
.ugagguaguagGuugaauaguU	20	1	s01
.ugagguaguagauCgaauaguU	1	1	s01
.ugagguaguauCauugaauaguU	2	1	s01
.ugaNguaguagauugaauaguU	2	1	s01
.ugagguaguagauuUauaguU	10	1	s01
.ugagguaguagCuugaauaguU	5	1	s01
.ugagguaguagauugaCuaguU	1	1	s01
.ugagguaguagauugaauaguA	5	1	s01
.ugagguauUaguugaauaguU	2	1	s01
.ugagguaguagauugaGuaguU	4	1	s01
.ugagguaguagauugCauaguU	11	1	s01
.uUagguaguagauugaauaguU	4	1	s01
.ugGggguaguagauugaauaguU	4	1	s01
.ugagguaguagauugaUaguU	3	1	s01
.ugagguaguagauuAaauguU	3	1	s01

Star Mature

caguucccuaguaagaacugcuaaaacucaucucugggucgacaccagacuaagcaccuguccuugagggcugagguaguagauugaauaguugugggguaauauguccucccu			
.....ugagguCuagauugaauagu.....	1	1	s01
.....Ggagguaguagauugaauagu.....	9	1	s01
.....ugagguaguagUuugaauagu.....	1	1	s01
.....ugagguaguagauugaauaguG.....	1	1	s01
.....ugagguaguaAauugaauagu.....	4	1	s01
.....ugaggAaguagauugaauagu.....	22	1	s01
.....ugagguaguagauugaaGagu.....	2	1	s01
.....ugagguaguagauugaaCagu.....	4	1	s01
.....ugagAuaguagauugaauagu.....	2	1	s01
.....ugagguaguagaAugaauagu.....	2	1	s01
.....ugCgguaguagauugaauagu.....	25	1	s01
.....Cgagguaguagauugaauagu.....	6	1	s01
.....ugagguaguagaGugaauagu.....	4	1	s01
.....ugagguagAagauugaauagu.....	1	1	s01
.....ugagguaguagauugaauaguA.....	63	1	s01
.....ugagguaguagauugaauaguug.....	59	0	s01
.....ugagguaguagauugaauaguU.....	168	1	s01
.....ugagguaguagGuugaauaguugu.....	1	1	s01
.....ugagguaguagauugaauaguugA.....	1	1	s01
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.....ugagguaguagauugaauaguUu.....	4	1	s01
.....ugagguaguagauugaauaguAu.....	4	1	s01
.....ugagguaguagauugaauaguugug.....	21	0	s01
.....ugagguaguagauugGauaguugug.....	1	1	s01
.....ugagguaguagauugaauaguugugU.....	4	1	s01
.....gagguaguagauugaauagGu.....	1	1	s01
.....gagguaguagauugaauagu.....	20	0	s01
.....gagguGguagauugaauagu.....	1	1	s01
.....gagguaguagGuugaauagu.....	1	1	s01
.....gagguaguagauugaauagGug.....	1	1	s01
.....gagguGguagauugaauaguug.....	1	1	s01
.....gagguaguagauugaauaguug.....	35	0	s01
.....gagguaguagauugaauaguU.....	1	1	s01
.....gaggCaguagauugaauaguug.....	1	1	s01
.....Aagguaguagauugaauaguug.....	1	1	s01
.....gagguaguagauugaauaguugu.....	5	0	s01
.....gagguaguagauugaauaguugug.....	7	0	s01