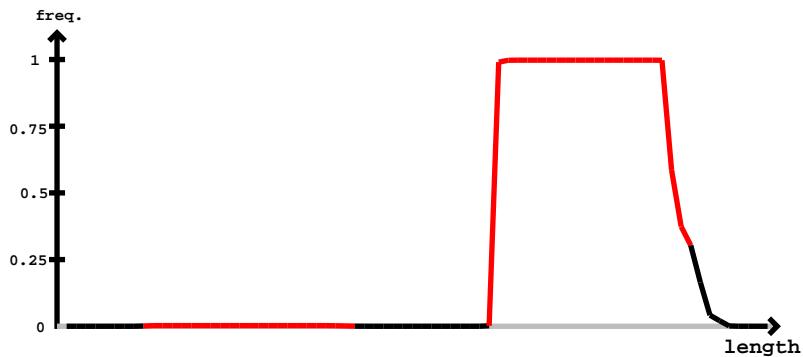
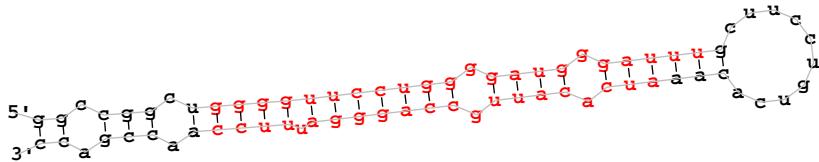


```
miRBase precursor      : hsa-mir-23a
Total read count       : 7588
hsa-miR-23a-5p read count : 18
hsa-miR-23a-3p read count : 7570
remaining reads        : 0
```



hsa-miR-23a-5p	hsa-miR-23a-3p	-3'	exp	
5'- ggccggcugggguuccuggggauuggcuuccugucacaaaucacauugccagggauuuccaaccgacc	(((.....(((((((.....((((.....))))....))))....))))....))))....)))	reads	mm	sample
.....aaucacauugccagggauu.....	.....aaucacauugccagggauu.....	2	0	Z3_
.....aucGcauugccagggauu.....	.....aucGcauugccagggauu.....	1	1	Z3_
.....aucacauugccaAggauu.....	.....aucacauugccaAggauu.....	1	1	Z3_
.....aCcacauugccagggauu.....	.....aCcacauugccagggauu.....	4	1	Z3_
.....aucacauugccagggauA.....	.....aucacauugccagggauA.....	6	1	Z3_
.....aucacauugccagggau.....	.....aucacauugccagggau.....	219	0	Z3_
.....Cucacauugccagggauu.....	.....Cucacauugccagggauu.....	1	1	Z3_
.....Gucacauugccagggauu.....	.....Gucacauugccagggauu.....	2	1	Z3_
.....aucUcauugccagggauu.....	.....aucUcauugccagggauu.....	1	1	Z3_
.....aucacauugcUagggauu.....	.....aucacauugcUagggauu.....	1	1	Z3_
.....aucacauugccGgggauu.....	.....aucacauugccGgggauu.....	1	1	Z3_
.....aucacaCugccagggauu.....	.....aucacaCugccagggauu.....	1	1	Z3_
.....aucacauugccagggGuu.....	.....aucacauugccagggGuu.....	2	1	Z3_
.....aucacauugccagggauC.....	.....aucacauugccagggauC.....	12	1	Z3_
.....aucacauugccagggauu.....	.....aucacauugccagggauu.....	136	0	Z3_
.....aucacauugccagggauC.....	.....aucacauugccagggauC.....	12	1	Z3_
.....aucacauugccGgggauu.....	.....aucacauugccGgggauu.....	1	1	Z3_
.....auAacauugccagggauu.....	.....auAacauugccagggauu.....	1	1	Z3_
.....aucGcauugccagggauu.....	.....aucGcauugccagggauu.....	2	1	Z3_
.....aucacauCgcccagggauu.....	.....aucacauCgcccagggauu.....	1	1	Z3_
.....aucacGuuggccagggauu.....	.....aucacGuuggccagggauu.....	1	1	Z3_
.....Uucacauugccagggauu.....	.....Uucacauugccagggauu.....	1	1	Z3_
.....aucacauugccagggauuA.....	.....aucacauugccagggauuA.....	3	1	Z3_
.....aucacauugccagggauuuc.....	.....aucacauugccagggauuuc.....	38	0	Z3_
.....aucacauugccagggauuU.....	.....aucacauugccagggauuU.....	5	1	Z3_
.....aucacaCugccagggauuuc.....	.....aucacaCugccagggauuuc.....	2	1	Z3_
.....aucacauCgcccagggauuuc.....	.....aucacauCgcccagggauuuc.....	2	1	Z3_
.....aucacauugUcagggauuuc.....	.....aucacauugUcagggauuuc.....	1	1	Z3_
.....aucacauugccagggauuCc.....	.....aucacauugccagggauuCc.....	1	1	Z3_
.....aucacauugccGgggauuuc.....	.....aucacauugccGgggauuuc.....	2	1	Z3_
.....aucacauugccagggauuucU.....	.....aucacauugccagggauuucU.....	20	1	Z3_
.....aucUcauugccagggauuucc.....	.....aucUcauugccagggauuucc.....	1	1	Z3_
.....aucacauugccagggauuGcc.....	.....aucacauugccagggauuGcc.....	1	1	Z3_
.....aucGcauugccagggauuucc.....	.....aucGcauugccagggauuucc.....	2	1	Z3_

hsa-miR-23a-5p

hsa-miR-23a-3p

ggccggcugggguuccuggggauugggauuugcuuuccugucacaaaucacauugccaggggauuuccaaaccgacc

.....aucacauugccaggggauuu <u>ccA</u>	2	1	Z3_
.....aucacauugccaggggauuu <u>cc</u>	73	0	Z3_
.....aucacauugccaggga <u>Cuucc</u>	1	1	Z3_
.....aucacauu <u>Ucaggggauuu</u> cca.....	1	1	Z3_
.....aucacauu <u>Uggggauuu</u> cca.....	1	1	Z3_
.....aucacauu <u>Agggauuu</u> cca.....	1	1	Z3_
.....aucacauu <u>ccaggggauuu</u> ccU.....	1	1	Z3_
.....aucacauu <u>ccaggggGuu</u> cca.....	3	1	Z3_
.....aucacauu <u>ccaggggauuu</u> cca.....	129	0	Z3_
.....aucacauu <u>ccaggggauuu</u> ccC.....	1	1	Z3_
.....aucacauu <u>gcUaggggauuu</u> cca.....	1	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccU.....	13	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccaa.....	15	0	Z3_
.....aucacauu <u>gcaggggauuu</u> ccAC.....	1	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccAG.....	2	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccaaU.....	24	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccaaUc.....	3	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccaaA.....	1	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccAA.....	2	1	Z3_
.....aucacauu <u>gcaggggauuu</u> ccAAU.....	1	1	Z3_
.....uggguuuccuggggauugggau.....	2	0	GDM
.....ggguuuccuggggauugggau.....	1	0	GDM
.....ggguuuccuggggauugggauuuA.....	1	1	GDM
.....aaucacauu <u>gcaggggau</u>	1	0	GDM
.....aaucacauu <u>gcaggggau</u>	1	0	GDM
.....aaucacauu <u>gcaggggauuu</u> cca.....	5	0	GDM
.....aaucacauu <u>gcaggggauuu</u> cca.....	5	0	GDM
.....aaucacauu <u>gcaggggauuu</u> ccC.....	1	1	GDM
.....aucacauu <u>gcaggggau</u> Cu.....	7	1	GDM
.....aucaca <u>Ugcaggggau</u>	10	1	GDM
.....aucacauu <u>gcaggggau</u> Auu.....	1	1	GDM
.....aucaca <u>Ugcaggggau</u>	10	1	GDM
.....aucacauu <u>gcaggggauG</u>	7	1	GDM
.....aucacauu <u>gcaggggGuu</u>	10	1	GDM
.....aucacauu <u>gcaggggauC</u>	90	1	GDM
.....aucacauu <u>gcaggggau</u>	2	1	GDM
.....aucacauu <u>gcaggggauC</u>	90	1	GDM
.....aucacauu <u>Accaggggau</u>	1	1	GDM
.....aCcacauu <u>gcaggggau</u>	12	1	GDM
.....aucacauu <u>gcGgggau</u>	4	1	GDM
.....aucacauu <u>Ucaggggau</u>	1	1	GDM
.....Uucacauu <u>gcaggggau</u>	6	1	GDM
.....aCcacauu <u>gcaggggau</u>	12	1	GDM
.....Gucacauu <u>gcaggggau</u>	6	1	GDM
.....aucac <u>Guugccaggggau</u>	3	1	GDM
.....aucacauu <u>Aggggauu</u>	2	1	GDM
.....aucacauu <u>gcaggggAu</u>	3	1	GDM
.....aucacauu <u>gcaggggau</u>	1525	0	GDM
.....auAacauu <u>gcaggggau</u>	3	1	GDM
.....Uucacauu <u>gcaggggau</u>	6	1	GDM
.....aucacauu <u>gcaggggau</u> Au.....	3	1	GDM
.....aucacauu <u>gcaggggau</u>	1525	0	GDM
.....aCcacauu <u>gcaggggau</u>	12	1	GDM
.....aucacauu <u>gcaggggUuu</u>	2	1	GDM
.....aucacau <u>Agccaggggau</u>	3	1	GDM
.....aucac <u>Uuugccaggggau</u>	2	1	GDM
.....Gucacauu <u>gcaggggau</u>	6	1	GDM
.....aucaca <u>Gugccaggggau</u>	3	1	GDM
.....aucacauu <u>gcaggggau</u> Cu.....	7	1	GDM
.....aucacauu <u>gcacaAgggau</u>	2	1	GDM
.....auUacauu <u>gcaggggau</u>	2	1	GDM
.....aucaca <u>Gugccaggggau</u>	3	1	GDM
.....Uucacauu <u>gcaggggau</u>	6	1	GDM
.....aucacauu <u>gcaggggGuu</u>	10	1	GDM
.....aucacau <u>Gccaggggau</u>	1	1	GDM
.....aucacauu <u>gcaggggauA</u>	30	1	GDM
.....aucacau <u>Agccaggggau</u>	3	1	GDM
.....aucacauu <u>gcaggggGu</u>	1	1	GDM

hsa-miR-23a-5p**hsa-miR-23a-3p**ggccggcugggguuccuggggauugggauuugcuuuccugucacaa**aucacauugccaggggauuuuccaaccgacc**

.....aucacauCgccagggaau.....	10	1	GDM
.....auUacauuugccaggggau.....	2	1	GDM
.....aucacauugcÜagggaau.....	1	1	GDM
.....aucaUauugccaggggau.....	2	1	GDM
.....aucacaAuggccaggggau.....	1	1	GDM
.....aucacGuugccaggggau.....	3	1	GDM
.....aucacauugccaggggauA.....	30	1	GDM
.....aucUcauugccaggggau.....	1	1	GDM
.....aucacauugccCgggau.....	1	1	GDM
.....aucGcauugccaggggau.....	8	1	GDM
.....aucacauugccagggaCu.....	7	1	GDM
.....aucacauCgccagggaau.....	10	1	GDM
.....aucacauugccaggggauG.....	7	1	GDM
.....aucacauugccaggggau.....	1525	0	GDM
.....aucacauugccaggggauC.....	90	1	GDM
.....aucacauugccGgggau.....	4	1	GDM
.....auAacauuugccaggggau.....	3	1	GDM
.....aucacauugccaggggGuu.....	10	1	GDM
.....aucacauugccaAggau.....	2	1	GDM
.....aucGcauugccaggggau.....	8	1	GDM
.....aucacaCugccaggggau.....	10	1	GDM
.....aucacauugccaggggauA.....	30	1	GDM
.....aucacauCgccagggaau.....	10	1	GDM
.....aAcacauuugccaggggau.....	2	1	GDM
.....aucacauuugccaggggauG.....	4	1	GDM
.....aucacauugccaggUauuu.....	2	1	GDM
.....aucacauCgccaggggauu.....	1	1	GDM
.....aucacauugccagUgauuu.....	1	1	GDM
.....aucacaCugccaggggauu.....	5	1	GDM
.....aucacauugccaggggauu.....	713	0	GDM
.....aucacauugccUgggauu.....	3	1	GDM
.....aucacauugccAaggggauu.....	1	1	GDM
.....aCcacauugccaggggauu.....	3	1	GDM
.....aucacauugccaggggauGu.....	2	1	GDM
.....aucaUauugccaggggauu.....	1	1	GDM
.....aucacauugccagAgauuu.....	1	1	GDM
.....aucacauugccUgggauu.....	3	1	GDM
.....aucacGuugccaggggauu.....	3	1	GDM
.....aucacaCugccaggggauu.....	5	1	GDM
.....aucacauugccaggAauuu.....	1	1	GDM
.....aAcacauugccaggggauu.....	3	1	GDM
.....aucacaCugccaggggauu.....	5	1	GDM
.....aucacauuugccaggggauuC.....	35	1	GDM
.....aucacauuugccaggggauuG.....	4	1	GDM
.....aucacGuugccaggggauu.....	3	1	GDM
.....aucacauuugccagggaCuu.....	3	1	GDM
.....aucacauuugccaggggauu.....	713	0	GDM
.....aucacauA ^g ccaggggauu.....	1	1	GDM
.....aucacauuugccagggaCuu.....	3	1	GDM
.....aucUcauugccaggggauu.....	1	1	GDM
.....Uucacauugccaggggauu.....	3	1	GDM
.....aucacauugccaggggauC.....	35	1	GDM
.....aucacauugccaggggau.....	713	0	GDM
.....Uucacauugccaggggauu.....	3	1	GDM
.....aucacauugccaggggauCu.....	2	1	GDM
.....aucacauugccaggggauC.....	35	1	GDM
.....aucacauugccaggggauCu.....	2	1	GDM
.....aucacauugccaggggauAU.....	1	1	GDM
.....Gucacauugccaggggauu.....	3	1	GDM
.....aucacauugccaggggGuu.....	1	1	GDM
.....aucacauugUcaggggauu.....	1	1	GDM
.....aucacauugccGgggauu.....	1	1	GDM
.....aucacauugccaggggauC.....	2	1	GDM
.....aucacauugUcaggggauu.....	1	1	GDM
.....GucacauugccaggggauuUC.....	4	1	GDM
.....aucacauAgccaggggauu.....	1	1	GDM
.....aucacaGugccaggggauuUC.....	1	1	GDM
.....aucacauugccaggggauuA.....	18	1	GDM
.....aucacauugccaggggauCuC.....	5	1	GDM

hsa-miR-23a-5p**hsa-miR-23a-3p**ggccggcugggguuccuggggauugggauuuugcuuuccugucacaaaucacauugccaggggauuuuccaaccgacc

.....aucacauuAccagggaauuc.....	2	1	GDM
.....aCcacauugccaggggauuu.....	2	1	GDM
.....aucacauugccaggggauuuG.....	4	1	GDM
.....aucacauugccaggggauuu.....	211	0	GDM
.....aucacauugccaggggauuuA.....	18	1	GDM
.....aucacauugccaggggauuc.....	1	1	GDM
.....aucacauugccaggggauuuU.....	33	1	GDM
.....aucacauugccaggggauuuA.....	18	1	GDM
.....aucacauugccaggggauuuU.....	33	1	GDM
.....aucacauugccaggggauuc.....	5	1	GDM
.....aucacUuugccaggggauuc.....	2	1	GDM
.....aucacauugccaggggauuu.....	33	1	GDM
.....aucacauugccaggggauuc.....	211	0	GDM
.....aucacauugccaggggauuG.....	4	1	GDM
.....aucacUuugccaggggauuc.....	2	1	GDM
.....aucacauugccGgggauuc.....	2	1	GDM
.....aGcacauugccaggggauuc.....	1	1	GDM
.....aucacauugcUagggauuc.....	2	1	GDM
.....aucacauugccaggggauuc.....	211	0	GDM
.....aucacauugccaggggauuCcc.....	7	1	GDM
.....aucacaGugccaggggauuu.....	1	1	GDM
.....aucacauugcUagggauuu.....	1	1	GDM
.....aucacauugccaggggauuuG.....	6	1	GDM
.....aucacauAgccaggggauuu.....	2	1	GDM
.....aucacauugcoGgggauuu.....	4	1	GDM
.....aucacauugccaggggauuuA.....	11	1	GDM
.....aucacauugccaUggauuu.....	1	1	GDM
.....aucGcauugccaggggauuu.....	2	1	GDM
.....aucacauugccaggggGuuu.....	2	1	GDM
.....aucacauugccaggggauuCcc.....	7	1	GDM
.....aucacauugccaggggauuCcc.....	7	1	GDM
.....aucacauugccaggggauuGcc.....	1	1	GDM
.....aucacauuAccaggggauuu.....	4	1	GDM
.....aucacauugccaggggauuu.....	385	0	GDM
.....aucacauuigCcaggggauuu.....	1	1	GDM
.....aAcacauugccaggggauuu.....	1	1	GDM
.....aucacauugccaggggauuu.....	385	0	GDM
.....aucacauuAccaggggauuu.....	4	1	GDM
.....aucacauugccaAggauuu.....	1	1	GDM
.....aucacauugccaggggauuu.....	385	0	GDM
.....aucacauugccaggggauuuU.....	88	1	GDM
.....aucacGuugccaggggauuu.....	1	1	GDM
.....aucacauugccaggggauu.....	1	1	GDM
.....aucacauugccaggggauu.....	2	1	GDM
.....aucacauugccaggggauuuA.....	11	1	GDM
.....aucacauugccaggggauuu.....	88	1	GDM
.....aucacauugccaggggauuu.....	1	1	GDM
.....aucacauugccaggggauuu.....	88	1	GDM
.....aucacauugccaggggauuuA.....	11	1	GDM
.....aucacauugccGgggauuu.....	4	1	GDM
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.....aucacauugccaggggGuuu.....	2	1	GDM
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.....aucacauugccaggggauuuUc.....	1	1	GDM
.....aucacauugccaggggauuu.....	8	1	GDM
.....aucacauugccaggggauuuU.....	8	1	GDM
.....aucacaCugccaggggauuu.....	3	1	GDM
.....aucacauugccaggggauuu.....	6	1	GDM
.....aucacGuugccaggggauuu.....	2	1	GDM
.....aucacaCugccaggggauuu.....	3	1	GDM
.....aucacauugccaggggauuu.....	371	0	GDM
.....aucacauugcUagggauuu.....	2	1	GDM
.....aucacauugccGgggauuu.....	1	1	GDM
.....aucacauugccagggaCuucca.....	1	1	GDM
.....aucacauugcAaggggauuu.....	1	1	GDM
.....aucacauCgccaggggauuu.....	2	1	GDM
.....aucacauugccaggggauuu.....	8	1	GDM
.....Gucacauugccaggggauuu.....	3	1	GDM
.....aucacauugccaggggauuu.....	8	1	GDM

hsa-miR-23a-5p**hsa-miR-23a-3p**ggccggcugggguuccuggggauugggauuugcuuuccugucacaa**aucacaugccaggggauuuuccaaccgacc**

.....aucacaCugccaggggauuuucca.....	3	1	GDM
.....aucacauugccaggggauuuucca.....	371	0	GDM
.....aucacauugccaggggauuuucca.....	371	0	GDM
.....aucacauugccaggggAuuucca.....	1	1	GDM
.....aucacauugccagAGauuuucca.....	1	1	GDM
.....aucacauugccaggAauuuucca.....	1	1	GDM
.....aCcacauugccaggggauuuucca.....	6	1	GDM
.....aucacauugccaggggGuuucca.....	5	1	GDM
.....aucacauugccaggggauuuuccC.....	6	1	GDM
.....aucacauugccaggggauuuuccC.....	6	1	GDM
.....aCcacauugccaggggauuuucca.....	6	1	GDM
.....Gucacauugccaggggauuuucca.....	3	1	GDM
.....aucacauugccaggggGuuucca.....	5	1	GDM
.....aucacauugccaggggauCucca.....	2	1	GDM
.....aucUcauugccaggggauuuucca.....	1	1	GDM
.....aucacauGccaggggauuuucca.....	2	1	GDM
.....aCcacauugccaggggauuuucca.....	6	1	GDM
.....Gucacauugccaggggauuuucca.....	3	1	GDM
.....aucacauugccaggggauuuuccU.....	8	1	GDM
.....aucacauugccaggggauuuuccaU.....	17	1	GDM
.....aucacauugccaggggauuuuccaa.....	36	0	GDM
.....aucacauugccaggggauuuuccaG.....	2	1	GDM
.....aucacauCgcaggggauuuuccaa.....	1	1	GDM
.....aucacauugccaggggauuuuccaa.....	36	0	GDM
.....aucacauugccaggggauuuuccaU.....	17	1	GDM
.....aucacauugccaggggauuuuccCa.....	1	1	GDM
.....aucacauugccaggggauuuuccaU.....	17	1	GDM
.....aucacauugccaggggauuuuccaa.....	36	0	GDM
.....aucacauugccaggggauuAccaa.....	2	1	GDM
.....aucacauugccaggggauuuccaaU.....	49	1	GDM
.....aucacauugccaggggauuuccaac....	3	0	GDM
.....aucacauugccaggggauuuccaaG....	1	1	GDM
.....aucacauugccaggggauuuuccaaA....	3	1	GDM
.....aucacauugccaggggauuAccaa.....	1	1	GDM
.....aucacauugccaggggauuuuccaaU....	49	1	GDM
.....aucacauugccaggggauuuuccaa.....	3	1	GDM
.....aucacauugccaggggauuuuccaaA....	3	0	GDM
.....aucacauugccaggggauuuccaaU....	49	1	GDM
.....aucacauugccaggggauuuuccaa.....	3	1	GDM
.....aucacauugccaggggauuuuccaU.....	3	1	GDM
.....aucacauugccaggggauuuuccaa.....	3	1	GDM
.....aucacauugccaggggauuuuccaA....	1	1	GDM
.....ucacauugccaggggauuu.....	2	0	GDM
.....ucacauugccaggggauuuuc.....	5	0	GDM
.....ucacauugccaggggauuuuc.....	5	0	GDM
.....ucacauugccaggggauuuucU.....	1	1	GDM
.....ucacauugccaggggauuuucc.....	3	0	GDM
.....ucacauugccaggggauuuucc.....	3	0	GDM
.....ucacauugccaggggauuuucc.....	3	0	GDM
.....ucacauugccaUggauuuucca.....	1	1	GDM
.....ucacauugccaggggauuuucca.....	8	0	GDM
.....ucacauugccaggggauuuucca.....	8	0	GDM
.....ucacauugccaggggauuuuccG.....	2	1	GDM
.....ucacauugccaggggauuuucca.....	8	0	GDM
.....Ccacauugccaggggauuuuccaa.....	1	1	GDM
.....ucacauugccaggggauuuuccaa.....	4	0	GDM
.....ucacauugccaggggauuuuccaa.....	4	0	GDM
.....ucacauugccaggggauuuuccaaU....	1	1	GDM
.....ucacauugccaggggauuuuccaaU....	1	1	GDM
.....ucacauugccaggggauuuuccaa.....	1	1	GDM
.....ucacauugccaggggauuuuccaa.....	1	1	GDM
.....ucacauugccaggggauuuuccaaacc....	2	0	GDM
.....uggguuuccuggggauugggau.....	4	0	Z1_
.....ggguuuccuggggauugggauuu.....	2	0	Z1_
.....aaucacauugccaggggau.....	1	0	Z1_
.....aucacauCgcaggggauu.....	2	1	Z1_
.....aAcacauugccaggggauu.....	1	1	Z1_
.....aucacauuAccaggggau.....	2	1	Z1_
.....aucacauugccaggggauC.....	25	1	Z1_
.....Gucacauugccaggggau.....	4	1	Z1_

hsa-miR-23a-5p**hsa-miR-23a-3p**

ggccggcgugggguuccuggggauugggauuuucuuuccugucacaaaucacauugccaggggauuuuccaaccgacc

.....aucacauugccGGggauu.....	4	1	z1_
.....aucacauugccagggaGu.....	1	1	z1_
.....aucaUauugccagggaau.....	4	1	z1_
.....aCcacauugccagggaau.....	1	1	z1_
.....aucacauugccaAggauu.....	3	1	z1_
.....aucacaCugccagggaau.....	2	1	z1_
.....aucacauugccagggaauG.....	3	1	z1_
.....aucacauugccagggaCu.....	2	1	z1_
.....aucacauugccagggaau.....	489	0	z1_
.....aucacauugccagggaGu.....	2	1	z1_
.....aucacauugccaggagA.....	2	1	z1_
.....Uucacauugccagggaau.....	2	1	z1_
.....aucacauAgccagggaau.....	1	1	z1_
.....aucacaGuugccagggaau.....	1	1	z1_
.....aucacauugUcagggaau.....	2	1	z1_
.....aucGcauugccagggaau.....	3	1	z1_
.....Cucacauugccagggaau.....	1	1	z1_
.....aucGcauugccagggaauu.....	1	1	z1_
.....aucacauugccagggaauC.....	4	1	z1_
.....aucacauugccagUGauuu.....	2	1	z1_
.....aucacauCgcagggaauu.....	2	1	z1_
.....aCcacauugccagggaauu.....	1	1	z1_
.....aucUcauugccagggaauu.....	1	1	z1_
.....aucacauugccagggaauu.....	163	0	z1_
.....aucacGuugccagggaauu.....	2	1	z1_
.....aucacaCugccagggaauu.....	1	1	z1_
.....aucacauugccagggaauG.....	1	1	z1_
.....auUacacauugccagggaauu.....	1	1	z1_
.....Guacacauugccagggaauu.....	1	1	z1_
.....aucacauugccagggaauuA.....	6	1	z1_
.....aucacauugUcagggaauuc.....	1	1	z1_
.....Uucacacauugccagggaauuc.....	1	1	z1_
.....aucacauugccagggaauuU.....	8	1	z1_
.....aucacauugccagggaauuc.....	36	0	z1_
.....aCcacacauugccagggaauuc.....	1	1	z1_
.....aucacauugccagggaauuucc.....	162	0	z1_
.....auAacacauugccagggaauuucc.....	1	1	z1_
.....aucacacauugccagggaauCcc.....	1	1	z1_
.....aucacacauugccagggaauuucA.....	10	1	z1_
.....aucacGuugccagggaauuucc.....	1	1	z1_
.....aucacacauugccagggaCuucc.....	1	1	z1_
.....aucacacauAgccagggaauuucc.....	2	1	z1_
.....aucacacauugccagggaGuuucc.....	1	1	z1_
.....aucacacauugccUgggauuucc.....	1	1	z1_
.....aucacacauugccagggaauuucU.....	42	1	z1_
.....Guacacacauugccagggaauuucc.....	3	1	z1_
.....aucacacauugccagggaauucca.....	129	0	z1_
.....aucacacauugccagggaauuccC.....	1	1	z1_
.....aucUcauugccagggaauucca.....	2	1	z1_
.....aucacacauCgcagggaauucca.....	3	1	z1_
.....aucacacauugccagggaauuccU.....	2	1	z1_
.....aucacacauugUagggaauucca.....	2	1	z1_
.....aucacacauugccagggaCuucca.....	1	1	z1_
.....Cucacacauugccagggaauucca.....	1	1	z1_
.....aucacacGuugccagggaauucca.....	1	1	z1_
.....aucacacauugccagggaauuccaU.....	10	1	z1_
.....aucacacauugccagggaauuccaa.....	15	0	z1_
.....aucacacauugccagggaauuccaaG.....	1	1	z1_
.....aucGcauugccagggaauuccaa.....	1	1	z1_
.....aucacacauugccagggaCuuccaa.....	1	1	z1_
.....aucacacauugccagggaauAccaac.....	2	1	z1_
.....aucacacauugccagggaauuccaaU.....	19	1	z1_
.....aucacacauugccagggaauuccaaA.....	3	1	z1_
.....aucacacauugccagggaauuccaaUc....	1	1	z1_
.....ucacacauugccagggaauuu.....	2	0	z1_
.....ucacacauugccagggaauucc.....	4	0	z1_
.....ucacacauugccagggaCuucc.....	1	1	z1_

hsa-miR-23a-5p**hsa-miR-23a-3p**

ggccggcgugggguuccuggggauugggauuuucuuuccugucacaaaucacauugccaggggauuuuccaaccgacc

.....ucacauugccaggggauuuucca.....	3	0	z1_
.....ucacauugccaggggauuuuccaaU.....	1	1	z1_
.....ucacauugccaggggauuuuccaaA.....	1	1	z1_
.....ucacauugccaggggauuuuccaacU.....	1	1	z1_
.....uggggguuccuggggauuggga.....	1	0	z2_
.....ggggguuccuggggauuggga.....	2	0	z2_
.....ggggguuccuggggAaugggauu.....	1	1	z2_
.....ggggguuccuggggauugggauu.....	4	0	z2_
.....aaucacauugccaggggau.....	1	0	z2_
.....aaucacauugccaggggauC.....	2	1	z2_
.....aucacauuAccaggggau.....	1	1	z2_
.....aucacauugccagggaCu.....	1	1	z2_
.....aucacauugccaggggGuu.....	1	1	z2_
.....aucGcauugccaggggau.....	1	1	z2_
.....aucacauugccaggggauC.....	20	1	z2_
.....aucacGuugccaggggau.....	3	1	z2_
.....aucacauAgcaggggau.....	1	1	z2_
.....aucacauugccaggggau.....	487	0	z2_
.....aucacauugccUgggauu.....	2	1	z2_
.....aucacauugccGgggauu.....	2	1	z2_
.....aucacauugccaggggauA.....	7	1	z2_
.....aucacauCgcaggggauu.....	4	1	z2_
.....auAacacauugccaggggauu.....	1	1	z2_
.....aucacauugccagAGaauu.....	1	1	z2_
.....aucacauugcUaggggauu.....	1	1	z2_
.....Cucacauugccaggggauu.....	1	1	z2_
.....aCcacacauugccaggggauu.....	4	1	z2_
.....aucacauugGcaggggauu.....	1	1	z2_
.....Gucacacauugccaggggauu.....	1	1	z2_
.....aAcacacauugccaggggauu.....	3	1	z2_
.....aucacacauAgccaggggauu.....	1	1	z2_
.....aucacacauugccaggAAauu.....	3	1	z2_
.....aucacacauugccaggggGuu.....	5	1	z2_
.....aucacaCugccaggggauu.....	3	1	z2_
.....aucacacauugccGgggauu.....	2	1	z2_
.....aucacacauugccaggggauu.....	430	0	z2_
.....aucacaAUGccaggggauu.....	1	1	z2_
.....aucacacauugcUaggggauu.....	1	1	z2_
.....aucacacauCgcaggggauu.....	1	1	z2_
.....aucacacauugccCgggauu.....	2	1	z2_
.....aucaUauugccaggggauu.....	1	1	z2_
.....Gucacacauugccaggggauu.....	2	1	z2_
.....aucacacauugccaggggauuC.....	20	1	z2_
.....aucacacauAgccaggggauuuc.....	1	1	z2_
.....aucacacauugccaggggauuU.....	17	1	z2_
.....aucacacauugccaggggauuA.....	6	1	z2_
.....aucacacauugccaggggauuuc.....	104	0	z2_
.....aucacacauugccaggggauuCc.....	1	1	z2_
.....aCcacacauugccaggggauuuc.....	2	1	z2_
.....aucacacauugccaggggauuG.....	2	1	z2_
.....aucacacauugccaggggauuC.....	1	1	z2_
.....aucacacauugCcaggggauuCC.....	1	1	z2_
.....aucacacauugccaggggauuCC.....	1	1	z2_
.....aucacacauugccaggggauuucA.....	4	1	z2_
.....aucacacauugccaggggauuCC.....	1	1	z2_
.....aucacacauugccaggggauuCC.....	1	1	z2_
.....aucacacauugccUgggauuucc.....	1	1	z2_
.....aucacacauugccaggggGuuucc.....	1	1	z2_
.....aucacaCugccaggggauuucc.....	1	1	z2_
.....aucacacauAgccaggggauuucc.....	1	1	z2_
.....aucacacauCgcaggggauuucc.....	1	1	z2_
.....aucacacauugccaggggauuucc.....	149	0	z2_
.....aucacacauugccaggggauuucU.....	26	1	z2_
.....aucGcauugccaggggauuucc.....	1	1	z2_
.....aAcacacauugccaggggauuucca.....	3	1	z2_
.....aucacacauugccaggggauuucca.....	1	1	z2_
.....aucacacauugccagAGaauuucca.....	1	1	z2_
.....aucacacauugccaggggauuuccG.....	2	1	z2_
.....aucacacauugccaggggauuuccC.....	1	1	z2_

hsa-miR-23a-5p

hsa-miR-23a-3p

ggccggcugggguuccuggggauugggauuuugcuuuccugucacaa**aucacauugccaggggauuuuccaaccgacc**

.....aucacauugccaggggauuuucca.....	190	0	z2_
.....auca <u>Uauuugccaggggauuuucca</u>	1	1	z2_
.....aucacauugccaggggauuu <u>Uca</u>	1	1	z2_
.....aucacauugccaggggauuu <u>U</u>	7	1	z2_
.....aucacauugccaggggauuu <u>Uca</u>	14	1	z2_
.....aucacauugccaggggauuu <u>caa</u>	19	0	z2_
.....aucacauugccaggggauuu <u>caG</u>	3	1	z2_
.....aucacauugccaggggauuu <u>Accaa</u>	1	1	z2_
.....aucacauugccaggggauuu <u>ccaac</u>	1	0	z2_
.....aucacauugccaggggauuu <u>U</u>	21	1	z2_
.....aucacauugccaggggauuu <u>caG</u>	2	1	z2_
.....aucacauugccaggggauuu <u>Uc</u>	1	1	z2_
.....ucacauugccaggggauuu <u>A</u>	1	1	z2_
.....ucacauugccaggggauuu <u>UCC</u>	2	0	z2_
.....ucacauugccaggggauuu <u>caa</u>	1	0	z2_
.....ucacauugccaggggauuu <u>Ccaaac</u>	1	1	z2_
.....ucacauugccaggggauuu <u>ccaac</u>	2	0	z2_
.....cacauugccaggggauuu <u>cca</u>	3	0	z2_