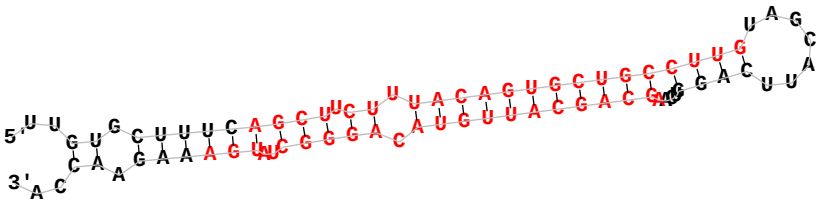
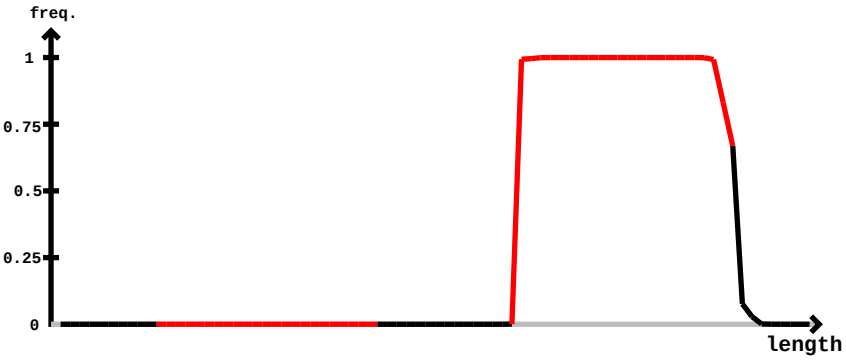
miRBase precursor : hsa-mir-103a-2
Total read count : 321758
hsa-miR-103a-3p read count : 321737
hsa-miR-103a-2-5p read count : 20
remaining reads : 321738





hsa-miR-103a-3p

hsa-miR-103a-2-5p

```
5'- uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca agcagcauuguacagggcuauga aagaacca  -3'    exp
    ..((.((((((((((.((.((((((((((((((.......))))....))))))))))).)))))..)))))).))..    reads      mm         sample
    ..........agcuucuuuacagugcugccA.....................................................  1          1          hsa
    ..........agcuucuuuacagugcugccuug...................................................  7          0          hsa
    ..........agcuucuuuacagugcugccuuU...................................................  2          1          hsa
    ..........Ggcuucuuuacagugcugccuug...................................................  1          1          hsa
    ..........agcuucuuuacagugcugccuuUu..................................................  1          1          hsa
    ..........agAuucuuuacagugcugccuugu...................................................  1          1          hsa
    ..........agcuucuuuacagugcugccuugu...................................................  4          0          hsa
    ..........agcuucuuuacagugcugccuugA...................................................  3          1          hsa
    ..............................................Aaagcagcauuguacagggcua..........  1          1          hsa
    ..............................................Aaagcagcauuguacagggcuau.........  9          1          hsa
    ..............................................Aaagcagcauuguacagggcuaug........  7          1          hsa
    ..............................................Aaagcagcauuguacagggcuauga.......  25         1          hsa
    ..............................................caagcagcauuguacagggcuauga.......  1          0          hsa
    ..............................................Aaagcagcauuguacagggcuaugaa......  1          1          hsa
    ..............................................Aaagcagcauuguacagggcuaugaaa.....  1          1          hsa
    ..............................................aagcagcauuguacagggcua..........  2          0          hsa
    ..............................................aagcagcauuguacagggcuaA.........  1          1          hsa
    ..............................................aagcagcauuguacagggcuau.........  12         0          hsa
    ..............................................Gagcagcauuguacagggcuau.........  1          1          hsa
    ..............................................Cagcagcauuguacagggcuau.........  12         1          hsa
    ..............................................aagcagcauuUuacagggcuau.........  1          1          hsa
    ..............................................aagcagcauuguacagUgcuau.........  1          1          hsa
    ..............................................aagcagcauuguacagggcuauA.........  1          1          hsa
    ..............................................aagcagcauuguacagggcuaCg.........  1          1          hsa
    ..............................................Cagcagcauuguacagggcuaug.........  24         1          hsa
    ..............................................aagcagcauuguacaggUcuaug.........  1          1          hsa
    ..............................................aagcagcauuguacagggcuaug.........  7          0          hsa
    ..............................................aagcagcauuUuacagggcuauga........  1          1          hsa
    ..............................................aagcagcauuguacagggcuauga........  17         0          hsa
    ..............................................aagcagcauuguacagggGuauga........  1          1          hsa
    ..............................................aagcagcauuguacagggcuauCa........  1          1          hsa
    ..............................................Cagcagcauuguacagggcuauga........  91         1          hsa
    ..............................................aagcagcauuguacagggcuaugU........  4          1          hsa
    ..............................................aagcagcauuguacagggcuaugaa.......  1          0          hsa
```

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....aagcagcauuUuacagggcuaugaa.....	1	1	hsa
.....Cagcagcauuguacagggcuaugaa.....	5	1	hsa
.....Cagcagcauuguacagggcuaugaaa.....	5	1	hsa
.....agcagcauuguacaggCc.....	1	1	hsa
.....agcagcauuguacagggc.....	27	0	hsa
.....agcagcauuguacagggcu.....	160	0	hsa
.....agcCgcauuguacagggcu.....	1	1	hsa
.....agcagcauuguUcagggcu.....	1	1	hsa
.....agcagcauuguacagggcG.....	1	1	hsa
.....agcagcauuUuacagggcu.....	1	1	hsa
.....agcagUauuguacagggcu.....	1	1	hsa
.....agcagcauuguacagggcA.....	1	1	hsa
.....agcagcauuguacaggUcu.....	1	1	hsa
.....agcagcauugCacagggcu.....	1	1	hsa
.....aUcagcauuguacagggcu.....	1	1	hsa
.....agcagcCuuguacagggcu.....	2	1	hsa
.....agcagcauuAuacagggcu.....	1	1	hsa
.....agcagcauuguacaUggcua.....	12	1	hsa
.....agcagcauuCuacagggcua.....	5	1	hsa
.....agcagAauuguacagggcua.....	1	1	hsa
.....agcagcauuUuacagggcua.....	11	1	hsa
.....agcagcauuguaUagggcua.....	2	1	hsa
.....agcUgcauuguacagggcua.....	2	1	hsa
.....agcaUcauuguacagggcua.....	4	1	hsa
.....agcagcauuguacagggcua.....	1877	0	hsa
.....agcagcauuguacGgggcua.....	1	1	hsa
.....Ggcagcauuguacagggcua.....	2	1	hsa
.....agAagcauuguacagggcua.....	1	1	hsa
.....aAcagcauuguacagggcua.....	1	1	hsa
.....agcagcauuguacagggAua.....	24	1	hsa
.....agcagcauugAacagggcua.....	1	1	hsa
.....agcaAcauuguacagggcua.....	1	1	hsa
.....agcagcauuguacaggAcua.....	2	1	hsa
.....agcagcauugGacagggcua.....	5	1	hsa
.....agcagcaGuguacagggcua.....	3	1	hsa
.....Cgcagcauuguacagggcua.....	5	1	hsa
.....agcagcauugCacagggcua.....	4	1	hsa
.....agcagcauuguacagggcuU.....	96	1	hsa
.....agcagcauuguacagUgcua.....	8	1	hsa
.....agGagcauuguacagggcua.....	1	1	hsa
.....agcagcauuguGcagggcua.....	1	1	hsa
.....agcagcauuguacagggcAa.....	3	1	hsa
.....agcagcauuguacagCgcua.....	3	1	hsa
.....Ugcagcauuguacagggcua.....	4	1	hsa
.....agcagcauuguUcagggcua.....	8	1	hsa
.....agcGgcauuguacagggcua.....	4	1	hsa
.....agcagcauuguacaAggcua.....	3	1	hsa
.....agcCgcauuguacagggcua.....	5	1	hsa
.....agcagGauuguacagggcua.....	1	1	hsa
.....agUagcauuguacagggcua.....	2	1	hsa
.....agcagcauuguacUgggcua.....	2	1	hsa
.....agcagcauuguacagggcuC.....	1	1	hsa
.....agcagcauuguCcagggcua.....	1	1	hsa
.....agcagcauuguacaggCcua.....	3	1	hsa
.....agcagcauCguacagggcua.....	1	1	hsa
.....agcagcauuguacaggUcua.....	26	1	hsa
.....aUcagcauuguacagggcua.....	4	1	hsa
.....agcagcCuuguacagggcua.....	6	1	hsa
.....agcagcauuguacagggcGa.....	1	1	hsa
.....agcagcauuAuacagggcua.....	4	1	hsa
.....aCcagcauuguacagggcua.....	2	1	hsa
.....agcagcauuguacagAgcua.....	3	1	hsa
.....agcagcauuguacCgggcua.....	1	1	hsa
.....agcagcauuguacagggcuG.....	4	1	hsa
.....agcagUauuguacagggcua.....	2	1	hsa
.....Ggcagcauuguacagggcuau.....	41	1	hsa
.....agcagcauuCuacagggcuau.....	102	1	hsa
.....aAcagcauuguacagggcuau.....	46	1	hsa
.....agcagcauugCacagggcuau.....	50	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....agcagcauuguaAagggcuau.....	10	1	hsa
.....agcagUauuguacagggcuau.....	161	1	hsa
.....agcaAcauuguacagggcuau.....	37	1	hsa
.....agcagAauuguacagggcuau.....	14	1	hsa
.....agcagcaCuguacagggcuau.....	42	1	hsa
.....agcagcaAuguacagggcuau.....	20	1	hsa
.....agcagcauuguacagggcuUu.....	107	1	hsa
.....agcaUcauuguacagggcuau.....	100	1	hsa
.....agcGgcauuguacagggcuau.....	46	1	hsa
.....agcagcauuguacaAggcuau.....	38	1	hsa
.....agUagcauuguacagggcuau.....	82	1	hsa
.....agcCgcauuguacagggcuau.....	191	1	hsa
.....aUcagcauuguacagggcuau.....	109	1	hsa
.....agcagcauugGacagggcuau.....	55	1	hsa
.....agcaCcauuguacagggcuau.....	32	1	hsa
.....agcagcauuguacagggcuGu.....	36	1	hsa
.....agcagcUuuguacagggcuau.....	24	1	hsa
.....agcagcauuguacagggcuau.....	47245	0	hsa
.....agcagcauuguacaggUcuau.....	343	1	hsa
.....agcagcauuAuacagggcuau.....	120	1	hsa
.....aCcagcauuguacagggcuau.....	51	1	hsa
.....agcagcauuguacagAgcuau.....	40	1	hsa
.....agcagcauuguacagggcCau.....	31	1	hsa
.....agcagcauuguacaggCcuau.....	24	1	hsa
.....agcagcauuguacagCgcuau.....	31	1	hsa
.....agcagcauAguacagggcuau.....	13	1	hsa
.....agcagcauuguacagggAuau.....	15	1	hsa
.....agcagcauGguacagggcuau.....	7	1	hsa
.....agcUgcauuguacagggcuau.....	26	1	hsa
.....agcagcCuuguacagggcuau.....	151	1	hsa
.....agcagcauuguacagggcuCu.....	58	1	hsa
.....agcagcauugAacagggcuau.....	20	1	hsa
.....agcagcauuguacagggcuaC.....	34	1	hsa
.....agcagcauuguacagggcuaA.....	313	1	hsa
.....agcagcauuUuacagggcuau.....	381	1	hsa
.....agcagcauuguacagggcGau.....	38	1	hsa
.....agcagcauCguacagggcuau.....	37	1	hsa
.....agAagcauuguacagggcuau.....	76	1	hsa
.....agcagcauuguacagggGuau.....	11	1	hsa
.....agcagcauuguacUgggcuau.....	53	1	hsa
.....agcagcauuguacagggcAau.....	25	1	hsa
.....agcagcauuguGcagggcuau.....	61	1	hsa
.....agcagcauuguacaCggcuau.....	43	1	hsa
.....agcagcauuguacagUgcuau.....	278	1	hsa
.....agcagcauuguacCgggcuau.....	59	1	hsa
.....agcagcauuguacagggcuaG.....	38	1	hsa
.....agcagcauuguacagggUuau.....	30	1	hsa
.....agcagcauuguUcagggcuau.....	49	1	hsa
.....agcagcauuguacaggAcuau.....	31	1	hsa
.....agcagGauuguacagggcuau.....	8	1	hsa
.....agcagcGuuguacagggcuau.....	22	1	hsa
.....agcagcauuguacaUggcuau.....	360	1	hsa
.....agcagcauuguaGagggcuau.....	11	1	hsa
.....agGagcauuguacagggcuau.....	17	1	hsa
.....agcagcauuguaUagggcuau.....	71	1	hsa
.....agcagcaGuguacagggcuau.....	29	1	hsa
.....agcagcauuguacGgggcuau.....	31	1	hsa
.....Ugcagcauuguacagggcuau.....	24	1	hsa
.....Cgcagcauuguacagggcuau.....	89	1	hsa
.....agcagcauuguCcagggcuau.....	75	1	hsa
.....agUagcauuguacagggcuaug.....	33	1	hsa
.....Cgcagcauuguacagggcuaug.....	80	1	hsa
.....Ugcagcauuguacagggcuaug.....	17	1	hsa
.....agcagcauuguacagggcuCug.....	51	1	hsa
.....agcagcauuguacagggGuaug.....	13	1	hsa
.....aUcagcauuguacagggcuaug.....	85	1	hsa
.....agcagcauuguacagggcuauU.....	3808	1	hsa
.....agcagcauuguUcagggcuaug.....	43	1	hsa
.....agcagcauuCuacagggcuaug.....	77	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....agcagcauuguacaCggcuaug.....	23	1	hsa
.....agcagcauuguaUagggcuaug.....	98	1	hsa
.....agcagcauuguacagCgcuaug.....	33	1	hsa
.....agcagcauuguaAagggcuaug.....	16	1	hsa
.....agcagcaGuguacagggcuaug.....	15	1	hsa
.....agcaCcauuguacagggcuaug.....	31	1	hsa
.....agcUgcauuguacagggcuaug.....	18	1	hsa
.....agcagcauuguaGagggcuaug.....	6	1	hsa
.....agcagcauugCacagggcuaug.....	30	1	hsa
.....agcagcauuUuacagggcuaug.....	235	1	hsa
.....agcagUauuguacagggcuaug.....	68	1	hsa
.....agcagcauuguacagggcuaAg.....	11	1	hsa
.....agcaAcauuguacagggcuaug.....	39	1	hsa
.....agcagcauuguacaggAcuaug.....	30	1	hsa
.....aCcagcauuguacagggcuaug.....	51	1	hsa
.....agcagcauuguGcagggcuaug.....	52	1	hsa
.....agcagcauCguacagggcuaug.....	18	1	hsa
.....agcagcauuguacagggcuaug.....	36408	0	hsa
.....agcagcauuguacagggcuGug.....	27	1	hsa
.....agcagcauugGacagggcuaug.....	48	1	hsa
.....agcagcauuguacagggUuaug.....	24	1	hsa
.....aAcagcauuguacagggcuaug.....	43	1	hsa
.....agcagcauuguacagggcCaug.....	39	1	hsa
.....agcagcauuguacaggCcuaug.....	28	1	hsa
.....agcagcauuguacaAggcuaug.....	14	1	hsa
.....agcagcauuguacagggcGaug.....	33	1	hsa
.....agcagcauuguacagUgcuaug.....	160	1	hsa
.....agcagAauuguacagggcuaug.....	10	1	hsa
.....agcagcauuguacGgggcuaug.....	27	1	hsa
.....agcagcauAguacagggcuaug.....	8	1	hsa
.....agcagcauuAuacagggcuaug.....	76	1	hsa
.....agGagcauuguacagggcuaug.....	12	1	hsa
.....agcagGauuguacagggcuaug.....	3	1	hsa
.....agcagcauuguacaUggcuaug.....	238	1	hsa
.....agcagcauugAacagggcuaug.....	14	1	hsa
.....agcagcUuuguacagggcuaug.....	26	1	hsa
.....agcagcauuguacagAgcuaug.....	30	1	hsa
.....agcagcauuguacagggcuauC.....	5538	1	hsa
.....agcagcauuguacagggAuaug.....	8	1	hsa
.....agcagcauuguacCgggcuaug.....	57	1	hsa
.....agcagcauuguacagggcuaCg.....	29	1	hsa
.....agcagcaAuguacagggcuaug.....	11	1	hsa
.....agcagcauuguacUgggcuaug.....	42	1	hsa
.....agcagcauuguacagggcuaGg.....	14	1	hsa
.....agcagcauuguacaggUcuaug.....	363	1	hsa
.....agcagcaCuguacagggcuaug.....	27	1	hsa
.....agcagcauuguCcagggcuaug.....	66	1	hsa
.....agcagcauuguacagggcAaug.....	25	1	hsa
.....agcagcauuguacagggcuUug.....	24	1	hsa
.....agAagcauuguacagggcuaug.....	66	1	hsa
.....Ggcagcauuguacagggcuaug.....	26	1	hsa
.....agcaUcauuguacagggcuaug.....	75	1	hsa
.....agcagcGuuguacagggcuaug.....	27	1	hsa
.....agcCgcauuguacagggcuaug.....	144	1	hsa
.....agcagcauGguacagggcuaug.....	2	1	hsa
.....agcagcCuuguacagggcuaug.....	105	1	hsa
.....agcagcauuguacagggcuauA.....	3286	1	hsa
.....agcGgcauuguacagggcuaug.....	40	1	hsa
.....agcagcauuguacaggAcuauga.....	98	1	hsa
.....Ggcagcauuguacagggcuauga.....	122	1	hsa
.....agcagcauuguacagUgcuauga.....	617	1	hsa
.....agcagcauuguacCgggcuauga.....	254	1	hsa
.....agcagcauuguacagggcuauAa.....	939	1	hsa
.....aAcagcauuguacagggcuauga.....	191	1	hsa
.....agcagcaCuguacagggcuauga.....	117	1	hsa
.....agcagcauugGacagggcuauga.....	165	1	hsa
.....agcUgcauuguacagggcuauga.....	49	1	hsa
.....agcagcauuguGcagggcuauga.....	199	1	hsa
.....agUagcauuguacagggcuauga.....	440	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....agcagcauuguacagggcAauga.....	96	1	hsa
.....agcagcauuguaGagggcuauga.....	21	1	hsa
.....agcagGauuguacagggcuauga.....	22	1	hsa
.....Ugcagcauuguacagggcuauga.....	75	1	hsa
.....agcagcauCguacagggcuauga.....	99	1	hsa
.....agcagcaAuguacagggcuauga.....	46	1	hsa
.....agcagcauuguacagggcuaugG.....	99	1	hsa
.....agcagcauuguacaUggcuauga.....	994	1	hsa
.....agcagcauuguacaAggcuauga.....	92	1	hsa
.....agcagcauuguacagggcuaCga.....	92	1	hsa
.....agcagcauuguacagggcuGuga.....	126	1	hsa
.....agcagcauuguacaCggcuauga.....	108	1	hsa
.....agcaAcauuguacagggcuauga.....	109	1	hsa
.....agcagcauuCuacagggcuauga.....	364	1	hsa
.....agcagUauuguacagggcuauga.....	225	1	hsa
.....agcagcauuguacaggUcuauga.....	1433	1	hsa
.....agcagcauuguacagggcuaGga.....	38	1	hsa
.....agcagcGuuguacagggcuauga.....	100	1	hsa
.....agcagcauuguacagggcuCuga.....	127	1	hsa
.....agcagcauuguacagggUuauga.....	102	1	hsa
.....agcagcauuguacagAgcuauga.....	128	1	hsa
.....agcagcauuguacagggAuauga.....	35	1	hsa
.....agcagcauAguacagggcuauga.....	42	1	hsa
.....Cgcagcauuguacagggcuauga.....	263	1	hsa
.....agcagcauuguaAagggcuauga.....	70	1	hsa
.....agcagcauuguacagggcuaAga.....	60	1	hsa
.....agcagcUuuguacagggcuauga.....	79	1	hsa
.....agcagcauuguacagggcuaugC.....	328	1	hsa
.....agcagcaGuguacagggcuauga.....	84	1	hsa
.....agcagcauuguUcagggcuauga.....	157	1	hsa
.....agcagcauuguacagggcuaugU.....	15804	1	hsa
.....agcaUcauuguacagggcuauga.....	339	1	hsa
.....agcagcauuguacUgggcuauga.....	173	1	hsa
.....agcagcauuguacaggCcuauga.....	91	1	hsa
.....agcagcauugCacagggcuauga.....	145	1	hsa
.....agcagcauuguacagggcCauga.....	123	1	hsa
.....agcagcauugAacagggcuauga.....	78	1	hsa
.....agcagcauuguacagCgcuauga.....	86	1	hsa
.....agcagcauuguaUagggcuauga.....	504	1	hsa
.....agcagcauuguacGgggcuauga.....	118	1	hsa
.....agcagcauuguacagggcGauga.....	127	1	hsa
.....aUcagcauuguacagggcuauga.....	322	1	hsa
.....agcagcauuUuacagggcuauga.....	1052	1	hsa
.....agGagcauuguacagggcuauga.....	35	1	hsa
.....agcagcauuguacagggcuauUa.....	1151	1	hsa
.....agAagcauuguacagggcuauga.....	236	1	hsa
.....agcagcauuguacagggcuauga.....	147613	0	hsa
.....agcagcauuguCcagggcuauga.....	268	1	hsa
.....agcagcauuguacagggcuUuga.....	99	1	hsa
.....agcagcauuguacagggGuauga.....	40	1	hsa
.....agcagcauGguacagggcuauga.....	18	1	hsa
.....agcagcauuguacagggcuauCa.....	9538	1	hsa
.....agcCgcauuguacagggcuauga.....	626	1	hsa
.....agcGgcauuguacagggcuauga.....	131	1	hsa
.....aCcagcauuguacagggcuauga.....	187	1	hsa
.....agcagcCuuguacagggcuauga.....	499	1	hsa
.....agcagcauuAuacagggcuauga.....	350	1	hsa
.....agcagAauuguacagggcuauga.....	50	1	hsa
.....agcaCcauuguacagggcuauga.....	91	1	hsa
.....aUcagcauuguacagggcuaugaa.....	10	1	hsa
.....agcagcauuguCcagggcuaugaa.....	8	1	hsa
.....agcaCcauuguacagggcuaugaa.....	2	1	hsa
.....agcagUauuguacagggcuaugaa.....	11	1	hsa
.....agcagcauuguacagggcuaugaU.....	9395	1	hsa
.....agcagcauuguUcagggcuaugaa.....	1	1	hsa
.....agUagcauuguacagggcuaugaa.....	7	1	hsa
.....agcagcauuguacagggcuauCaa.....	43	1	hsa
.....agcaAcauuguacagggcuaugaa.....	1	1	hsa
.....agcagcauuguacCgggcuaugaa.....	6	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**gcagcauuguacagggcuauga**aagaacca

.....agcagcauuguacagggcuaugaG.....	193	1	hsa
.....Ggcagcauuguacagggcuaugaa.....	4	1	hsa
.....agcagcauuguGcagggcuaugaa.....	5	1	hsa
.....agcagcaAuguacagggcuaugaa.....	2	1	hsa
.....agcagcauuguacagAgcuaugaa.....	5	1	hsa
.....agcagcGuuguacagggcuaugaa.....	4	1	hsa
.....agcaUcauuguacagggcuaugaa.....	8	1	hsa
.....agcagcauuguacagggcuaAgaa.....	1	1	hsa
.....aCcagcauuguacagggcuaugaa.....	9	1	hsa
.....Cgcagcauuguacagggcuaugaa.....	10	1	hsa
.....agcagcauuguacagCgcuaugaa.....	5	1	hsa
.....agcagcauuguacaggUcuaugaa.....	41	1	hsa
.....agcagcauuAuacagggcuaugaa.....	13	1	hsa
.....agcagcauuCuacagggcuaugaa.....	7	1	hsa
.....agcagcauugAacagggcuaugaa.....	4	1	hsa
.....agcagcauuguacagggcCaugaa.....	8	1	hsa
.....agcagcauuguacagggcuaugGa.....	6	1	hsa
.....agcCgcauuguacagggcuaugaa.....	21	1	hsa
.....agcagcauuguacaAggcuaugaa.....	3	1	hsa
.....agcagcauuguacagggcuaGgaa.....	1	1	hsa
.....agcagcauuguacagggcuaugaC.....	116	1	hsa
.....agcagcauuguacaUggcuaugaa.....	26	1	hsa
.....agcagcauuguacagggcuaugCa.....	18	1	hsa
.....agcagcauuguacagggcAaugaa.....	2	1	hsa
.....agcagcauuguacagggcuaugaa.....	4612	0	hsa
.....agcagcauugCacagggcuaugaa.....	5	1	hsa
.....agcUgcauuguacagggcuaugaa.....	3	1	hsa
.....Ugcagcauuguacagggcuaugaa.....	3	1	hsa
.....agAagcauuguacagggcuaugaa.....	8	1	hsa
.....agcagcauuguacaggCcuaugaa.....	2	1	hsa
.....agcagcauuguacagggcuGugaa.....	3	1	hsa
.....aAcagcauuguacagggcuaugaa.....	5	1	hsa
.....agcagcauuguacagggcGaugaa.....	5	1	hsa
.....agcagcauuUuacagggcuaugaa.....	18	1	hsa
.....agcagcauuguacagggcuaugUa.....	448	1	hsa
.....agcagcauuguaAagggcuaugaa.....	3	1	hsa
.....agcagcauuguacagggGuaugaa.....	1	1	hsa
.....agcagcUuuguacagggcuaugaa.....	3	1	hsa
.....agcagcauuguacagggcuauAaa.....	49	1	hsa
.....agcagGauuguacagggcuaugaa.....	1	1	hsa
.....agcagcauCguacagggcuaugaa.....	2	1	hsa
.....agcagcauuguacagggcuauUaa.....	16	1	hsa
.....agcagcauuguacaggAcuaugaa.....	1	1	hsa
.....agcagcauuguaUagggcuaugaa.....	22	1	hsa
.....agcagcauuguacUgggcuaugaa.....	4	1	hsa
.....agcagcauugGacagggcuaugaa.....	4	1	hsa
.....agcagcauuguacaCggcuaugaa.....	2	1	hsa
.....agcagcauuguacagggUuaugaa.....	2	1	hsa
.....agcagcauuguacagUgcuaugaa.....	16	1	hsa
.....agcagcCuuguacagggcuaugaa.....	17	1	hsa
.....agcGgcauuguacagggcuaugaa.....	2	1	hsa
.....agcagcauuguacagggcuUugaa.....	1	1	hsa
.....agcagcauuguacagggcuCugaa.....	5	1	hsa
.....agcagcauuguacGgggcuaugaa.....	4	1	hsa
.....agcagcaCuguacagggcuaugaa.....	1	1	hsa
.....agcagcaGuguacagggcuaugaa.....	1	1	hsa
.....agcagUauuguacagggcuaugaaa.....	25	1	hsa
.....agcGgcauuguacagggcuaugaaa.....	10	1	hsa
.....agcaCcauuguacagggcuaugaaa.....	9	1	hsa
.....agcagcaAuguacagggcuaugaaa.....	3	1	hsa
.....agcagcauuguacaggCcuaugaaa.....	2	1	hsa
.....agcagcauuguaUagggcuaugaaa.....	14	1	hsa
.....agcagcauuguacagggcAaugaaa.....	3	1	hsa
.....agcagGauuguacagggcuaugaaa.....	1	1	hsa
.....agcagcauugCacagggcuaugaaa.....	6	1	hsa
.....agcagcauuguacagggcuaugaUa.....	189	1	hsa
.....agUagcauuguacagggcuaugaaa.....	8	1	hsa
.....Ggcagcauuguacagggcuaugaaa.....	2	1	hsa
.....agcagcauuguUcagggcuaugaaa.....	4	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....agcagcauuguacagggcuaugaaa.....	7229	0	hsa
.....agcagcauuguacagggcuaugGaa.....	3	1	hsa
.....agcagcauuguacaAggcuaugaaa.....	1	1	hsa
.....agcagcauuguacaCggcuaugaaa.....	7	1	hsa
.....agcUgcauuguacagggcuaugaaa.....	3	1	hsa
.....aUcagcauuguacagggcuaugaaa.....	14	1	hsa
.....agAagcauuguacagggcuaugaaa.....	9	1	hsa
.....agcagcauuguacagggcuaCgaaa.....	3	1	hsa
.....agcagcauuguacagCgcuaugaaa.....	4	1	hsa
.....agcagcGuuguacagggcuaugaaa.....	5	1	hsa
.....agcagcaGuguacagggcuaugaaa.....	2	1	hsa
.....agcagcauuguacagggcuaGgaaa.....	1	1	hsa
.....agcagcCuuguacagggcuaugaaa.....	24	1	hsa
.....agcagcUuuguacagggcuaugaaa.....	1	1	hsa
.....agcagcauuguCcagggcuaugaaa.....	9	1	hsa
.....agcagcauuguacaggUcuaugaaa.....	83	1	hsa
.....agcagcauuguacagggcuauUaaa.....	28	1	hsa
.....agcagcauuguacagggAuaugaaa.....	2	1	hsa
.....agcagcauuguacagggcuGugaaa.....	7	1	hsa
.....agcaAcauuguacagggcuaugaaa.....	5	1	hsa
.....agcagcauuguacaUggcuaugaaa.....	46	1	hsa
.....agcagcauuguacagggcuaugaCa.....	42	1	hsa
.....agcagcauuguacagggcuauAaaa.....	62	1	hsa
.....agcCgcauuguacagggcuaugaaa.....	25	1	hsa
.....agcagcauuguGcagggcuaugaaa.....	1	1	hsa
.....agcagcauuguacUgggcuaugaaa.....	6	1	hsa
.....agcagcauuguacagggcuaugCaa.....	18	1	hsa
.....agcagcauuguacagggcuCugaaa.....	3	1	hsa
.....agcagcauuguacagggcuaugUaa.....	59	1	hsa
.....agcagcauuguacagggcuaugaGa.....	41	1	hsa
.....Ugcagcauuguacagggcuaugaaa.....	5	1	hsa
.....aAcagcauuguacagggcuaugaaa.....	7	1	hsa
.....agcagcauuguacCgggcuaugaaa.....	11	1	hsa
.....agcagAauuguacagggcuaugaaa.....	1	1	hsa
.....agcagcauuguacaggAcuaugaaa.....	3	1	hsa
.....agcagcauugGacagggcuaugaaa.....	12	1	hsa
.....agcagcauuguacagggGuaugaaa.....	2	1	hsa
.....agcagcauugAacagggcuaugaaa.....	2	1	hsa
.....agcagcauuUuacagggcuaugaaa.....	49	1	hsa
.....agcagcauuguacagggcuUugaaa.....	2	1	hsa
.....agcagcauuguacagggUuaugaaa.....	12	1	hsa
.....agcagcauuguacagUgcuaugaaa.....	36	1	hsa
.....agcagcauuguacagggcuaugaaU.....	475	1	hsa
.....agcagcauuCuacagggcuaugaaa.....	18	1	hsa
.....agcagcauuguacagggcCaugaaa.....	4	1	hsa
.....agcagcauuguacagggcuaAgaaa.....	4	1	hsa
.....agcagcauAguacagggcuaugaaa.....	1	1	hsa
.....agcagcauuguacagggcuaugaaG.....	38	1	hsa
.....agcagcauuguacagggcuauCaaa.....	8	1	hsa
.....agcagcauuguaGagggcuaugaaa.....	2	1	hsa
.....agcagcauuguacagAgcuaugaaa.....	8	1	hsa
.....agcagcauuguaAagggcuaugaaa.....	4	1	hsa
.....agcagcauuguacagggcuaugaaC.....	16	1	hsa
.....Cgcagcauuguacagggcuaugaaa.....	13	1	hsa
.....agcagcauuAuacagggcuaugaaa.....	12	1	hsa
.....agcaUcauuguacagggcuaugaaa.....	21	1	hsa
.....agcagcauCguacagggcuaugaaa.....	3	1	hsa
.....agcagcaCuguacagggcuaugaaa.....	6	1	hsa
.....agcagcauuguacagggcGaugaaa.....	5	1	hsa
.....agGagcauuguacagggcuaugaaa.....	7	1	hsa
.....aCcagcauuguacagggcuaugaaa.....	14	1	hsa
.....agcagcauuguacGgggcuaugaaa.....	4	1	hsa
.....agcagcauuguacagggcuaugaaaC.....	5	1	hsa
.....agcagcauuguacagggcuaugaaaA.....	182	1	hsa
.....agcagcauuguacagggcuaugaaag.....	4	0	hsa
.....agcagcauuguacagggcuaugaaGg.....	1	1	hsa
.....agcagcauuguacagggcuaugaGag.....	1	1	hsa
.....agcagcauuguacagggcuaugaCag.....	1	1	hsa
.....agcagcauuguacagggcuaugaaaU.....	24	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....agcagcauuguacagggcuaugaUag.....	1	1	hsa
.....agcagcauuguacagggcuaugaaaga....	2	0	hsa
.....agcagcauuguacagggcuaugaaCga....	1	1	hsa
.....agcagcauuguacagggcuaugaGaga....	1	1	hsa
.....agcagcauuguacagggcuaugaaaAa....	75	1	hsa
.....agcagcauuguacagggcuaugaaGga....	1	1	hsa
.....agcagcauuguacagggcuaugaaagU....	1	1	hsa
.....agcagcauuguacagggcuaugaaaUaa...	1	1	hsa
.....agcagcauuguacagggcuaugaaaCaac..	1	1	hsa
.....gcagcauuguacagggcua..........	3	0	hsa
.....Acagcauuguacagggcuau.........	2	1	hsa
.....gcaUcauuguacagggcuau.........	1	1	hsa
.....gcagcauuguacagggcuau.........	60	0	hsa
.....gcagcauuguacagUgcuau.........	1	1	hsa
.....gGagcauuguacagggcuau.........	1	1	hsa
.....gcaAcauuguacagggcuau.........	1	1	hsa
.....Ucagcauuguacagggcuau.........	1	1	hsa
.....gcagcauuguacagggcuauU........	3	1	hsa
.....gcagcauuguacagggcuauA........	6	1	hsa
.....gcagcauuguacagggGuaug........	1	1	hsa
.....gcagGauuguacagggcuaug........	1	1	hsa
.....gcagcauuCuacagggcuaug........	1	1	hsa
.....gcagcauuguacagAgcuaug........	1	1	hsa
.....gcagcauCguacagggcuaug........	1	1	hsa
.....gcagcauuguacagggcuauC........	7	1	hsa
.....gcagcauuguacagggcuaug........	72	0	hsa
.....gcagcauuguGcagggcuauga.......	1	1	hsa
.....gcagcauuguacaggAcuauga.......	1	1	hsa
.....gcagAauuguacagggcuauga.......	2	1	hsa
.....gcagcauuguacagggcuaugU.......	23	1	hsa
.....gcagcauugCacagggcuauga.......	5	1	hsa
.....gcagcauuguacagggcuauAa.......	1	1	hsa
.....gcagcauuguacagggcuCuga.......	2	1	hsa
.....gcagcauuguaUagggcuauga.......	1	1	hsa
.....gcagcaCuguacagggcuauga.......	1	1	hsa
.....gcagcauuguacagggcuauCa.......	8	1	hsa
.....gcagcauuUuacagggcuauga.......	1	1	hsa
.....gcaCcauuguacagggcuauga.......	2	1	hsa
.....gUagcauuguacagggcuauga.......	2	1	hsa
.....gAagcauuguacagggcuauga.......	1	1	hsa
.....gcaUcauuguacagggcuauga.......	4	1	hsa
.....Acagcauuguacagggcuauga.......	2	1	hsa
.....gGagcauuguacagggcuauga.......	1	1	hsa
.....gcagcauuguacUgggcuauga.......	1	1	hsa
.....gcagcauuguacaggCcuauga.......	2	1	hsa
.....gcagcauuguacagUgcuauga.......	7	1	hsa
.....gcagcauuguacagggcuauga.......	367	0	hsa
.....gcagcauuguacaUggcuauga.......	2	1	hsa
.....gcagcauGguacagggcuauga.......	1	1	hsa
.....gcagcauuguacagggcuauUa.......	1	1	hsa
.....gcagcauuguacagggcuaugaU......	28	1	hsa
.....gcagcauuguacagggcuauAaa......	1	1	hsa
.....gcagcauuguacaUggcuaugaa......	2	1	hsa
.....gcagcauugCacagggcuaugaa......	1	1	hsa
.....gcagcauuguacagggcuaugCa......	1	1	hsa
.....gcagcauuguacCgggcuaugaa......	1	1	hsa
.....gcagcauuguacagggcuaugaa......	21	0	hsa
.....gcagcauuguacagggcuaugUa......	1	1	hsa
.....gcagcauuguacagggcuaugaaU.....	1	1	hsa
.....gcagcauuguacagggcuaugCaa.....	1	1	hsa
.....gcagcauuguacagggcuaugaaa.....	28	0	hsa
.....gcagcauuUuacagggcuaugaaa.....	1	1	hsa
.....gcagcauuguacagggcuaugaaaA....	3	1	hsa
.....cCgcauuguacagggcuau..........	1	1	hsa
.....cagcauAguacagggcuau..........	1	1	hsa
.....cagcauuguacagggcuau..........	43	0	hsa
.....cagcauuguGcagggcuau..........	1	1	hsa
.....cagcauuguacagggcuCu..........	1	1	hsa
.....cagcauuAuacagggcuau..........	1	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....cagcauuguacagggcuauU.....	2	1	hsa
.....cagcauuguacagggcuauC.....	1	1	hsa
.....cagcauuguacagggcuauA.....	1	1	hsa
.....cagcauuguacagggcuaug.....	112	0	hsa
.....cagUauuguacagggcuaug.....	1	1	hsa
.....cagcauuguaUagggcuaug.....	1	1	hsa
.....cagcUuuguacagggcuaug.....	1	1	hsa
.....cagcCuuguacagggcuaug.....	1	1	hsa
.....cagcauuguacagUgcuaug.....	3	1	hsa
.....Uagcauuguacagggcuaug.....	1	1	hsa
.....cagcauugAacagggcuaug.....	1	1	hsa
.....cCgcauuguacagggcuaug.....	1	1	hsa
.....cagcauuguacaggUcuauga.....	8	1	hsa
.....cagcauuguacagggcuauAa.....	3	1	hsa
.....cGgcauuguacagggcuauga.....	1	1	hsa
.....cagcauuguGcagggcuauga.....	1	1	hsa
.....cagcCuuguacagggcuauga.....	1	1	hsa
.....caAcauuguacagggcuauga.....	1	1	hsa
.....cagcUuuguacagggcuauga.....	1	1	hsa
.....cagcauuguacagggcuaugG.....	1	1	hsa
.....cagcauuUuacagggcuauga.....	5	1	hsa
.....cagcauuguacagggcuaugU.....	32	1	hsa
.....cagGauuguacagggcuauga.....	1	1	hsa
.....cagcauuguCcagggcuauga.....	6	1	hsa
.....cagAauuguacagggcuauga.....	1	1	hsa
.....cagcauuguacagggcuaCga.....	1	1	hsa
.....caCcauuguacagggcuauga.....	1	1	hsa
.....cagcauuCuacagggcuauga.....	1	1	hsa
.....Uagcauuguacagggcuauga.....	5	1	hsa
.....cagcGuuguacagggcuauga.....	1	1	hsa
.....cagcauuguacCgggcuauga.....	1	1	hsa
.....cagcauuguacagggcuauCa.....	3	1	hsa
.....cagcauuguacagUgcuauga.....	3	1	hsa
.....cagcauuguacagggcuauUa.....	3	1	hsa
.....cagcauuguacagAgcuauga.....	2	1	hsa
.....Aagcauuguacagggcuauga.....	1	1	hsa
.....caUcauuguacagggcuauga.....	2	1	hsa
.....cagcauuguacaggAcuauga.....	2	1	hsa
.....cagUauuguacagggcuauga.....	1	1	hsa
.....cagcauCguacagggcuauga.....	1	1	hsa
.....cCgcauuguacagggcuauga.....	2	1	hsa
.....cagcauuguacagggcuCuga.....	3	1	hsa
.....cagcauuguacagggcuauga.....	744	0	hsa
.....cagcauuguacagggcuaugC.....	2	1	hsa
.....cagcauuguacGgggcuauga.....	1	1	hsa
.....cagcauuguacagggcuaugaG.....	2	1	hsa
.....cagcCuuguacagggcuaugaa.....	1	1	hsa
.....cagcauuguacagggcuaugaU.....	20	1	hsa
.....cagcauuguacagggcuaugaC.....	2	1	hsa
.....cagcauuguacagggcuaugaa.....	36	0	hsa
.....cagcauuguacaggUcuaugaa.....	1	1	hsa
.....cagcauuguacagggcuGugaa.....	1	1	hsa
.....cagcauuguacagCgcuaugaaa.....	1	1	hsa
.....cagcauuguacagggcuaugaaa.....	44	0	hsa
.....caUcauuguacagggcuaugaaa.....	1	1	hsa
.....cagcauuguacagggcuaugaaG.....	9	1	hsa
.....cagcauuguacagggcuaugaaaA.....	2	1	hsa
.....cagcauuguacagggcuaugaaaAa....	1	1	hsa
.....agcauuguacagggcuau.....	15	0	hsa
.....agUauuguacagggcuau.....	9	1	hsa
.....agcauuguacagggcuauU.....	1	1	hsa
.....agUauuguacagggcuaug.....	2	1	hsa
.....agcauuguacagggcuauC.....	1	1	hsa
.....agcauuguacagggcuaug.....	18	0	hsa
.....agcauuguacaggAcuaug.....	1	1	hsa
.....agcauuguacagggcuauA.....	2	1	hsa
.....agcauuguacagggcuauUa.....	1	1	hsa
.....agcauuguCcagggcuauga.....	1	1	hsa
.....agcauuguaUagggcuauga.....	1	1	hsa

hsa-miR-103a-3p

hsa-miR-103a-2-5p

uugugcuuucagcuucuuuacagugcugccuuguagcauucagguca**agcagcauuguacagggcuauga**aagaacca

.....agcauuguacagUgcuauga.....	2	1	hsa
.....agcauuguacCgggcuauga.....	1	1	hsa
.....agcauuguacagggcuauCa.....	5	1	hsa
.....agcauuguacaggUcuauga.....	2	1	hsa
.....agcauuguacagggcuauAa.....	1	1	hsa
.....agcauuguacagggcuauga.....	77	0	hsa
.....agUauuguacagggcuauga.....	7	1	hsa
.....agAauuguacagggcuauga.....	1	1	hsa
.....Cgcauuguacagggcuauga.....	1	1	hsa
.....agcauuguacagggcuaugU.....	3	1	hsa
.....agcauuguacagggcuaugaa.....	2	0	hsa
.....agcauuguacagggcuaugaU.....	11	1	hsa
.....agcauuguacagggcuaugaaa.....	6	0	hsa
.....agUauuguacagggcuaugaaa.....	1	1	hsa
.....agcauuguacagggcuaugaaU.....	3	1	hsa
.....agcauugGacagggcuaugaaa.....	1	1	hsa
.....gcauuguacagggcuaug.....	2	0	hsa
.....gcauuguacagggcuauga.....	1	0	hsa
.....cauuguacagggcuauga.....	2	0	hsa
.....auuguacagggcuaugaaG.....	2	1	hsa