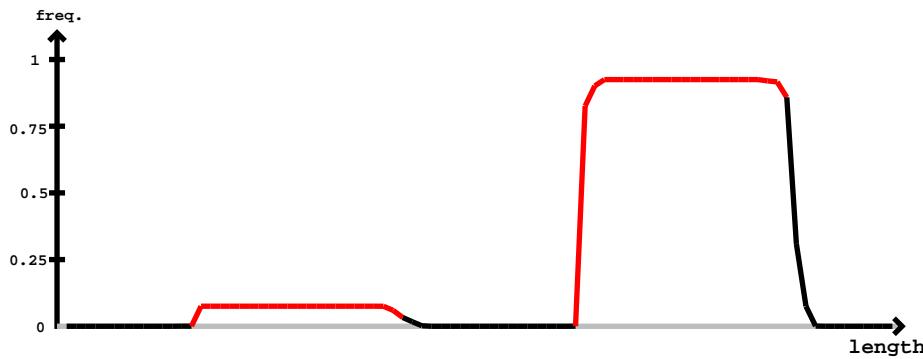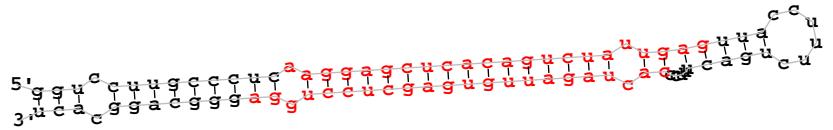miRBase precursor : hsa-mir-28
Total read count : 2645
hsa-miR-28-5p read count : 199
hsa-miR-28-3p read count : 2446
remaining reads : 0

hsa-miR-28-5p

```
5'- gguccuugcccucaaggagcucacagucuauugaguuaccuuucugacuuucccacuagauugugagcuccuggagggcaggcacu  -3'     exp
    (((.(((((((((.((((((((((((((((.(((((((......)))))....)).))))))))))))))))).)))))))).)))   reads    mm       sample
    ............aaggagcucacagucuauug.....................................................      10       0        Z1_
    ............aaggagcucacagucuauuga....................................................      14       0        Z1_
    ............aaggGgcucacagucuauugag...................................................      1        1        Z1_
    ............aaggagcucacagucuauugag...................................................      5        0        Z1_
    ............aaggagcucacagucuauugaAu.................................................       1        1        Z1_
    ............aaggagcucacagucuauugagA.................................................       3        1        Z1_
    ............aaggagcucacagucuauugagAu................................................       5        1        Z1_
    ...........................................cacuagauugugagcuccu.............             1        0        Z1_
    ...........................................cacuagauugugagcuccC.............             1        1        Z1_
    ...........................................cacuagauugugagcuccuU............             2        1        Z1_
    ...........................................cacuagauugugagcuccugg...........             19       0        Z1_
    ...........................................cacuaAauugugagcuccugg...........             1        1        Z1_
    ...........................................cacuagauCgugagcuccugg...........             1        1        Z1_
    ...........................................cacuagauuAugagcuccugg...........             1        1        Z1_
    ...........................................caAuagauugugagcuccugga..........             1        1        Z1_
    ...........................................cacuagGuugugagcuccugga..........             5        1        Z1_
    ...........................................cGcuagauugugagcuccugga..........             3        1        Z1_
    ...........................................cacuagauugugagcuccugU...........             22       1        Z1_
    ...........................................cacuagauugugagcuccuggC..........             3        1        Z1_
    ...........................................cacuagauugCgagcuccugga..........             4        1        Z1_
    ...........................................cacuagauugGgagcuccugga..........             2        1        Z1_
    ...........................................cacuagauugugagcuccuggG..........             4        1        Z1_
    ...........................................cacuagauugugagUuccugga..........             1        1        Z1_
    ...........................................cacuagauCgugagcuccugga..........             2        1        Z1_
    ...........................................Uacuagauugugagcuccugga..........             1        1        Z1_
    ...........................................cacuagauugugagcuccugga..........             226      0        Z1_
    ...........................................cacuagauugugagcCccugga..........             4        1        Z1_
    ...........................................cacuagauugugagcuccuggaU.........             50       1        Z1_
    ...........................................cacuagauugugagcuccuggaA.........             42       1        Z1_
    ...........................................cacuGgauugugagcuccuggag........              1        1        Z1_
    ...........................................cUcuagauugugagcuccuggag........              1        1        Z1_
    ...........................................cacuagauugugagcuccuggag........              15       0        Z1_
    ...........................................cacuagauugugagcuccuggaC.........             4        1        Z1_
    ...........................................cacuagauugugagcuccCggag.........             1        1        Z1_
```

hsa-miR-28-3p

hsa-miR-28-5p

ggccuugcccuc**aaggagcucacagucuauugag**uuaccuuucugacuuucc**cacuagauugugagcuccugga**gggcaggcacu

Sequence	Count	Flag	Group
cacuagauugugagcuccuggaAg	3	1	Z1_
cacuagauugugagcuccuggagA	6	1	Z1_
acuagauugugagcuccu	1	0	Z1_
acuagauuguAagcuccugg	1	1	Z1_
acuagaCgugagcuccugg	1	1	Z1_
acuagauugugagcuccugg	3	0	Z1_
acuagauugugagcuccuggaU	1	1	Z1_
acuagauugugagcuccuAgag	1	1	Z1_
acuagauugugagcuccuggag	13	0	Z1_
acuagauugugagcuccuggaA	2	1	Z1_
acuagauugugagcuccuggagA	5	1	Z1_
acuagauugugagcuccuggagU	11	1	Z1_
cuagauugugagcuccuggagA	4	1	Z1_
cuagauugugagcuccuggagU	4	1	Z1_
cuagauugugagcuccuggagC	2	1	Z1_
aaggagcucacagucuauug	6	0	Z2_
aaggagcucacagucuauuga	6	0	Z2_
aaggagcCcacagucuauuga	1	1	Z2_
aaggagcucacagucuauugag	1	0	Z2_
aaggagcucacagucuauugaAu	4	1	Z2_
aaggagcucacagucuauugagA	3	1	Z2_
aaggagcucacagucuauugagC	1	1	Z2_
aaggagcucacagucuauugagu	4	0	Z2_
cacuagauugugagcuccu	3	0	Z2_
cacuagauugugagcuccug	2	0	Z2_
cacuagauugCgagcuccug	1	1	Z2_
cacuagauugugagcuccugA	4	1	Z2_
cacuagauugugagcuccugU	3	1	Z2_
cacuagauugugagcuccugg	23	0	Z2_
cacuagauugugagcuccCgg	1	1	Z2_
cacuGgauugugagcuccugga	2	1	Z2_
cacuaAauugugagcuccugga	1	1	Z2_
cacuagauugCgagcuccugga	1	1	Z2_
cacuagauugugagcuccuggU	6	1	Z2_
cacuagauugugagcuccugUa	2	1	Z2_
cacuagUuugugagcuccugga	2	1	Z2_
cacuagaCgugagcuccugga	2	1	Z2_
cacuagauugugagcCccugga	2	1	Z2_
cacuagauugugagcuccuggC	1	1	Z2_
cacuagauugugagcuccugga	167	0	Z2_
cacuagauugugagcuccuggG	2	1	Z2_
cacuagauugugagcuccCgga	1	1	Z2_
Uacuagauugugagcuccugga	2	1	Z2_
cacuagauugugagcuccuggaC	4	1	Z2_
cacuagauugugagcuccuggag	7	0	Z2_
caGuagauugugagcuccuggag	1	1	Z2_
cacuagauugugagcuccuggaU	57	1	Z2_
cacuagauugugagcuccugAag	1	1	Z2_
cacuagauugugagcuccuggaA	38	1	Z2_
cacuagauugugagcuccuggagA	10	1	Z2_
cacuagauugugagcuccuggaAg	4	1	Z2_
cacuagauugugagcuccuggagU	2	1	Z2_
acuagauugugagcuccugg	2	0	Z2_
acuagauugugagcuccugga	2	0	Z2_
acuagauugugagcuccuggag	13	0	Z2_
acuagauugugagcuccuggaU	1	1	Z2_
acuagauugugagcuccuggaA	4	1	Z2_
acuagauugugagcuccuggagU	7	1	Z2_
acuagauugugagcuccuggagC	2	1	Z2_
acuagauugugagcuccuggagA	5	1	Z2_
acuagauugugagcuccuggagAg	1	1	Z2_
cuagauugugagcuccugga	3	0	Z2_
cuagauugugagcuccuggag	1	0	Z2_
cuagauugugagcuccuggagU	11	1	Z2_
ucaaggagcucacagucuaGu	1	1	GDM
aaggagcucacagucuauCg	1	1	GDM
aaggagcucacagucuauug	17	0	GDM

hsa-miR-28-3p

hsa-miR-28-5p

gguccuugcccucaaggagcucacagucuauugaguuaccuuucugacuuucccacuagauugugagcuccuggagggcaggcacu

```
..................aaggagcucacagucuauuA.........................................    1     1    GDM
..................aaggagcucaUagucuauug.........................................    1     1    GDM
..................aaggagcucacagucuauug.........................................   17     0    GDM
..................aaggagcucacagucuauug.........................................   17     0    GDM
..................aaggagcucacagucuauuga........................................   40     0    GDM
..................aaggagcucacagucuauugU........................................    1     1    GDM
..................aaggagcucacagucuauuga........................................   40     0    GDM
..................aaggagcucacGgucuauuga........................................    1     1    GDM
..................aGggagcucacagucuauuga........................................    1     1    GDM
..................aaggagcucacagucuauugG........................................    1     1    GDM
..................aaggagcucacagucuauuga........................................   40     0    GDM
..................aaggagcucacagucuauugaA.......................................   11     1    GDM
..................aaggagcucacagucuauugaA.......................................   11     1    GDM
..................aaggagcucacagucuauugag.......................................   15     0    GDM
..................aaggagcucacagucuauugag.......................................   15     0    GDM
..................aaggagcucacagucuauugag.......................................   15     0    GDM
..................aaggagcucacagucuauugagC......................................    1     1    GDM
..................aaggagcucacagucuauugagA......................................   18     1    GDM
..................aaggagcucacagucuauugaAu......................................    2     1    GDM
..................aaggagcucacagucuauugagA......................................   18     1    GDM
..................aaggagcuUacagucuauugagu......................................    1     1    GDM
..................aaggagcucacGgucuauugagu......................................    1     1    GDM
..................aaggagcucacagucuauugagA......................................   18     1    GDM
...................................................ccacuagauugugagcuccugga......    1     0    GDM
....................................................cacuagauugugagcuccu.........    5     0    GDM
....................................................cacuagauugugagcuccuA........    1     1    GDM
....................................................cacuagauugugagcuccug........    1     0    GDM
....................................................cacuagauugugagcuccugg.......   53     0    GDM
....................................................cacuagauugugagcuccugU.......    3     1    GDM
....................................................cacuagauugugagcuccugA.......    4     1    GDM
....................................................cacuagaCgugagcuccugg........    2     1    GDM
....................................................cacuagauugugagcuccugg.......   53     0    GDM
....................................................cCcuagauugugagcuccugg.......    1     1    GDM
....................................................cacuagauugugagcuccugA.......    4     1    GDM
....................................................Uacuagauugugagcuccugg.......    2     1    GDM
....................................................Uacuagauugugagcuccugg.......    2     1    GDM
....................................................cacuagauugugGgcuccugg.......    1     1    GDM
....................................................cacuagauugugagcuccugg.......   53     0    GDM
....................................................cacuagauugugagcuccuggC......    4     1    GDM
....................................................cacuaAauugugagcuccugga......    2     1    GDM
....................................................cacuagauugugagcuccugga......  596     0    GDM
....................................................cacuagauugugagcCccugga......    1     1    GDM
....................................................cacuagauuGgagcuccugga......    1     1    GDM
....................................................cacuagauugugGgcuccugga......    2     1    GDM
....................................................cacuagauugugagcuccAgga......    3     1    GDM
....................................................cacuagauugugagcuccugga......  596     0    GDM
....................................................cacuagauCgugagcuccugga......    4     1    GDM
....................................................cGcuagauugugagcuccugga......    1     1    GDM
....................................................cacuagauugugagcuccuggU......   52     1    GDM
....................................................cacuagaCgugagcuccugga......    2     1    GDM
....................................................cacuagauugugagcuUcugga......    1     1    GDM
....................................................cacuGgauugugagcuccugga......    6     1    GDM
....................................................cacuaAauugugagcuccugga......    2     1    GDM
....................................................cacuagauugugagcuccAgga......    3     1    GDM
....................................................cacuagauugugagcuccuAga......    2     1    GDM
....................................................cacuagauugugagcuccuggG......    7     1    GDM
....................................................cacuUgauugugagcuccugga......    1     1    GDM
....................................................Uacuagauugugagcuccugga......    7     1    GDM
....................................................cacuagGuugugagcuccugga......    3     1    GDM
....................................................cacuagauugCgagcuccugga......    4     1    GDM
....................................................cacuagauugugagcuccuggU......   52     1    GDM
....................................................cacuagauugugagUuccugga......    1     1    GDM
....................................................cacuagauugugagcuccuggG......    7     1    GDM
....................................................cacuagauugugGgcuccugga......    2     1    GDM
....................................................cacuagauugugagcuGcugga......    2     1    GDM
....................................................cacuGgauugugagcuccugga......    6     1    GDM
....................................................cacuagauugugagcuccuAga......    2     1    GDM
gguccuugcccucaaggagcucacagucuauugaguuaccuuucugacuuuc.Uacuagauugugagcuccugga.........    7     1    GDM
....................................................cacuagauugCgagcuccugga......    4     1    GDM
```

hsa-miR-28-3p

hsa-miR-28-5p

gguccuugcccuc**aaggagcucacagucuauugag**uuaccuuucugacuuucc**cacuagauugugagcuccugga**gggcaggcacu

```
.......................................................cacuGgauugugagcuccugga...........      6     1     GDM
.......................................................cacuagGuugugagcuccugga...........      3     1     GDM
.......................................................cacuagauugugagcuGcugga...........      2     1     GDM
.......................................................cacuagauugugagcuccugg U...........     52     1     GDM
.......................................................cacuagauugugagcuccugga...........    596     0     GDM
.......................................................cacuagauugugagcuccuggC...........      4     1     GDM
.......................................................cacuagauuCgagcuccugga...........      4     1     GDM
.......................................................cacuagauuAuagcuccugga...........      1     1     GDM
.......................................................cacuagauugugagcuccuggag..........     48     0     GDM
.......................................................cacuagauugugagcuccuggag..........     48     0     GDM
.......................................................cacuagauugugagcuccuggaA..........     68     1     GDM
.......................................................cacuagauugugagcuccuggaA..........     68     1     GDM
.......................................................cacuagauugugagcuccuggaC..........      5     1     GDM
.......................................................cacuagauugugagcuccuggaU..........    118     1     GDM
.......................................................cacuagaCugugagcuccuggag..........      1     1     GDM
.......................................................cacuagauugugagcuccuggaC..........      5     1     GDM
.......................................................cacuagauugugagcuccuggaA..........     68     1     GDM
.......................................................cacuagauugugagcuccuggaU..........    118     1     GDM
.......................................................cacuagauugugagcuccuggaU..........    118     1     GDM
.......................................................cacuagauugugagcuccuggag..........     48     0     GDM
.......................................................cacuagauugugagcuccuggagA.........      8     1     GDM
.......................................................cacuagauugugagcuccuggagA g........     12     1     GDM
.......................................................cacuagauugugagcuccuggagU.........     11     1     GDM
.......................................................cacuagauugugagcuccuggagA.........      8     1     GDM
.......................................................cacuagauugugagcuccuggagU.........     11     1     GDM
.......................................................cacuagauugugagcuccuggagA.........      8     1     GDM
.......................................................cacuagauugugagcuccuggagU.........     11     1     GDM
.......................................................cacuagauugugagcuccuggagA g........     12     1     GDM
.......................................................cacuagauugugagcuccuggagA g........     12     1     GDM
.......................................................acuagauugugagcuccugg............      5     0     GDM
.......................................................acuagauugugagcuccugg............      5     0     GDM
.......................................................acuagauugugagcuccugg............      5     0     GDM
.......................................................acuagauugCgagcuccugg............      1     1     GDM
.......................................................acuagaCugugagcuccugga...........      1     1     GDM
.......................................................acuagauugugagcuccugga...........     15     0     GDM
.......................................................acuagauugugagcuccugga...........     15     0     GDM
.......................................................acuagauugugagcuccuggG...........      1     1     GDM
.......................................................acuagauugugagcuccugga...........     15     0     GDM
.......................................................acuagauugugagcuccuggaU..........      1     1     GDM
.......................................................acuagauugugagcuccuggag..........     27     0     GDM
.......................................................acuagauugCgagcuccuggag..........      1     1     GDM
.......................................................acuagauugugagcuccuggaA..........      2     1     GDM
.......................................................acuagauugugagcuccuggag..........     27     0     GDM
.......................................................acuagauugugagcuccuggag..........     27     0     GDM
.......................................................acuagauugugagcuccuggagU.........     32     1     GDM
.......................................................acuagauugugagcuccuggagC.........      1     1     GDM
.......................................................acuagauugugagcuccuggagA.........     10     1     GDM
.......................................................acuagauugugagcuccuggagU.........     32     1     GDM
.......................................................acuagauugugagcuccuggagA.........     10     1     GDM
.......................................................acuagauugugagcuccuggagA.........     10     1     GDM
.......................................................acuagauugugagcuccuggagU.........     32     1     GDM
.......................................................acuagauugugagcuccuggagAg........      1     1     GDM
.......................................................cuagauugugagcuccugg.............      2     0     GDM
.......................................................cuagauugugagcuccugg.............      2     0     GDM
.......................................................cuagauugugagcuccuggaA...........      2     1     GDM
.......................................................cuagauugugagcuccuggag..........      1     0     GDM
.......................................................cuagauugugagcuccuggagC.........      3     1     GDM
.......................................................cuagauugugagcuccuggagC.........      3     1     GDM
.......................................................cuagauugugagcuccuggagA.........      4     1     GDM
.......................................................cuagauugugagcuccuggagU.........     15     1     GDM
.......................................................cuagauugugagcuccuggagU.........     15     1     GDM
.......................................................cuagauugugagcuccuggagU.........     15     1     GDM
.......................................................cuagauugugagcuccuggagA.........      4     1     GDM

............aaggagcucacagucuauug.................................................      4     0     Z3_
............aaggagcucacagucuauuga................................................      6     0     Z3_
............aaggagcucacagucuauugaA...............................................      3     1     Z3_
............aaggagcucacagucuauugag...............................................      5     0     Z3_
............aaggagcucacagucuauugaC...............................................      1     1     Z3_
```

gguccuugcccuc**aaggagcucacagucuauugag**uuaccuuucugacuuucc**cacuagauugugagcuccugga**gggcaggcacu

```
............aaggagcucacagucuauugagA.....................................................   1     1    Z3_
...............................................cacuagauugugagcuccA...............   1     1    Z3_
...............................................cacuagauugugagcuccu...............   1     0    Z3_
...............................................cacuagauugugagcuccug.............   3     0    Z3_
..............................................Uacuagauugugagcuccugg...........   4     1    Z3_
...............................................cacuagauugugagcuccugg...........  14     0    Z3_
...............................................cacuagGuugugagcuccugg...........   1     1    Z3_
...............................................cacuagauugugagcuccuggG..........   2     1    Z3_
...............................................cacuagauugugagcuGcugga.........   2     1    Z3_
..............................................Uacuagauugugagcuccugga.........   1     1    Z3_
...............................................cacuagaAugugagcuccugga.........   1     1    Z3_
...............................................cacuagauugugagcuUcugga.........   1     1    Z3_
...............................................cacuagauugugagcCccugga.........   1     1    Z3_
...............................................cacuagaCugugagcuccugga.........   2     1    Z3_
..............................................Aacuagauugugagcuccugga.........   1     1    Z3_
...............................................cacuagauugugGgcuccugga.........   1     1    Z3_
...............................................cacuagauCgugagcuccugga.........   1     1    Z3_
...............................................cacuagauugugagcuccugga.........  211     0    Z3_
...............................................cacCagauugugagcuccugga.........   1     1    Z3_
...............................................cacuGgauugugagcuccugga.........   2     1    Z3_
...............................................cacuagauuguUagcuccugga.........   1     1    Z3_
...............................................cacuagauugugagcuccuggC.........   3     1    Z3_
...............................................cacuagauugugagcuccuggU.........  17     1    Z3_
...............................................cacuagauugugagcuccuggaC........   1     1    Z3_
...............................................cacuagauugugagcuccuggaA........  30     1    Z3_
...............................................cacuagauugugagcuccuggaU........  23     1    Z3_
...............................................cacuagauuAugagcuccuggag........   2     1    Z3_
...............................................cacuagauugugagcuccuggag........  19     0    Z3_
...............................................cacuagauugugagcuccuggGg........   1     1    Z3_
...............................................cacuagauugugagcuccuggagU.......   7     1    Z3_
...............................................cacuagauugugagcuccuggagA.......   2     1    Z3_
................................................acuagauugugagcuccugga.........   8     0    Z3_
................................................acuagauugugagcCccugga.........   1     1    Z3_
................................................acuagauCgugagcuccugga.........   1     1    Z3_
................................................acuagauugugagcuccuggag........   5     0    Z3_
................................................acuagaCugugagcuccuggag........   1     1    Z3_
................................................acuagauugugagcuccuggaU........   1     1    Z3_
................................................acuagauugugagcuccuggagU.......   1     1    Z3_
................................................acuagauugugagcuccuggagC.......   1     1    Z3_
................................................acuagauugugagcuccuggagA.......   6     1    Z3_
.................................................cuagauugugagcuccuggaA........   2     1    Z3_
.................................................cuagauugugagcuccuggag........   2     0    Z3_
.................................................cuagauugugagcuccuggagU.......   7     1    Z3_
```