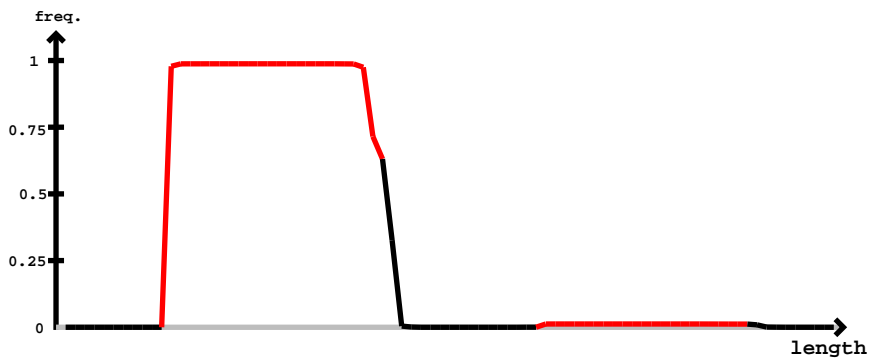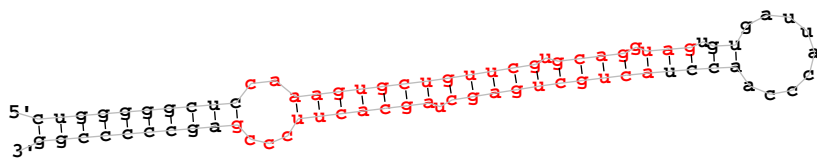miRBase precursor   : hsa-mir-93
Total read count   : 37168
hsa-miR-93-5p read count : 36711
hsa-miR-93-3p read count : 456
remaining reads   : 1

hsa-miR-93-5p

hsa-miR-93-3p

5'- cuggggggcuccaaagugcuguucgugcagguagugugauuacccaaccuacugcugagcuagcacuucccgagccccgg -3'   exp

	reads	mm	sample
((((((((((..(((((((((((.((((.(((.((.........))))))))))))))).)))))))...))))))))			
.........caaagugcuguucgugcaA...	1	1	Z3_
.........caaagugcuguucgugcag...	2	0	Z3_
.........caaagugcuguCcgugcagg..	1	1	Z3_
.........caaagugcuguucgugcagg..	24	0	Z3_
.........Uaaagugcuguucgugcagg..	1	1	Z3_
.........caaagugcuguucgugUagg..	8	1	Z3_
.........caaagugcuguucgugcagU..	1	1	Z3_
.........caaagugcuguucgugcGggu...	5	1	Z3_
.........caaagugcuguucgugcaggG...	4	1	Z3_
.........cUaagugcuguucgugcaggu...	1	1	Z3_
.........caaagugcugAucgugcaggu...	2	1	Z3_
.........caaagugcuguCcgugcaggu...	3	1	Z3_
.........caaGgugcuguucgugcaggu...	10	1	Z3_
.........caaagugcuguucguUcaggu...	1	1	Z3_
.........caaagugcuguucguAcaggu...	1	1	Z3_
.........caaagugcuguucgugcaggu...	773	0	Z3_
.........caaagGgcuguucgugcaggu...	1	1	Z3_
.........caaagugcuguucgugUaggu...	17	1	Z3_
.........caaagugcuguucgugcagAu...	1	1	Z3_
.........caaagugcuguGcgugcaggu...	1	1	Z3_
.........caaagugUuguucgugcaggu...	10	1	Z3_
.........caaagugcCguucgugcaggu...	4	1	Z3_
.........caaagugcuguucAugcaggu...	3	1	Z3_
.........Uaaagugcuguucgugcaggu...	4	1	Z3_
.........caaaguUcguucgugcaggu..	1	1	Z3_
.........caaagugcuguucgugcaAgu...	2	1	Z3_
.........caaagugcuguucgugcaggC...	103	1	Z3_
.........caaagugcGguucgugcaggu...	1	1	Z3_
.........caaagugcuguucgCgcaggu...	8	1	Z3_
.........caaagugcuguucgugcUggu...	1	1	Z3_
.........caaagCgcguucgugcaggu..	1	1	Z3_
.........caGagugcuguucgugcaggu...	4	1	Z3_
.........caaagugcuguucgugcaggA...	27	1	Z3_
.........caaagugcugCucgugcaggu...	6	1	Z3_

cuggggcuc**caaagugcuguucgugcagguag**ugugauuacccaaccu**acugcugagcuagcacuucccg**agccccgg

Sequence	Count	Flag	ID
.........caaagugcuguucgugcagguU...	6	1	Z3_
.........caaagugcuguucgCgcagguua..	1	1	Z3_
.........caaagugcuguucgugcagguG...	1	1	Z3_
.........caaagugcuguucguAcagguua..	1	1	Z3_
.........caaagugUuguucgugcagguua...	2	1	Z3_
........Uaaagugcuguucgugcagguua...	3	1	Z3_
........caaagCgcuguucgugcagguua...	2	1	Z3_
........caaaUugcuguucgugcagguua...	1	1	Z3_
........cGaagugcuguucgugcagguua...	1	1	Z3_
.........caaagugcuguucgugcaggCa...	1	1	Z3_
.........caaaguAcuguucgugcagguua..	1	1	Z3_
.........caGagugcuguucgugcagguua..	2	1	Z3_
.........caaagugcuguCcgugcagguua..	1	1	Z3_
.........caaagugcuguucgugcGggua...	6	1	Z3_
.........caaagugcugCucgugcagguua..	2	1	Z3_
.........caaagugcuAuucgugcagguua..	1	1	Z3_
.........Aaaagugcuguucgugcagguua..	1	1	Z3_
.........caaagugcuguucgugcagguua..	305	0	Z3_
.........caaGgugcuguucgugcagguua..	1	1	Z3_
.........caaUgugcuguucgugcagguua..	3	1	Z3_
.........caaagugcCguucgugcagguua..	1	1	Z3_
........cUaagugcuguucgugcagguua..	2	1	Z3_
.........caaagugcuguucgugUagguua..	14	1	Z3_
.........caaagugcuguucgugcaggAa...	1	1	Z3_
.........caaagAgcuguucgugcagguua..	1	1	Z3_
.........caaagugcuguuUgugcagguuag...	2	1	Z3_
.........caaagugcuguucgugcCgguag..	1	1	Z3_
.........caaagugcuguCcgugcagguuag...	8	1	Z3_
........cUaagugcuguucgugcagguuag...	2	1	Z3_
.........caaagugcuguucgugcagguuag...	1003	0	Z3_
.........caaagugUuguucgugcagguuag...	3	1	Z3_
.........caaagugcuguucgCgcagguuag...	3	1	Z3_
.........caaagugcuAuucgugcagguuag...	4	1	Z3_
.........caaagugcuguucAugcagguuag...	2	1	Z3_
.........caaagugcCguucgugcagguuag...	4	1	Z3_
.........caaagugcAguucgugcagguuag...	2	1	Z3_
.........caaagugGuguucgugcagguuag...	1	1	Z3_
.........caaagugcuguucgugcagguaA...	52	1	Z3_
.........caaagugcuguucgugcagguGg...	5	1	Z3_
.........caaagugcuguucgugUagguag..	6	1	Z3_
........Aaaagugcuguucgugcagguuag...	1	1	Z3_
.........caaagugcuguucguAcagguuag...	1	1	Z3_
.........caaaguCcguucgugcagguuag...	1	1	Z3_
........caGagugcuguucgugcagguuag...	7	1	Z3_
.........caaagugcuguucgugcUgguag..	1	1	Z3_
.........caaagugcuguAcgugcagguuag...	1	1	Z3_
........caaagAgcuguucgugcagguuag...	1	1	Z3_
.........caaagugcuguucgAgcagguuag...	1	1	Z3_
.........caaagugcuguucgugcagguaU...	18	1	Z3_
........caaGgugcuguucgugcagguuag...	5	1	Z3_
........Uaaagugcuguucgugcagguuag...	2	1	Z3_
.........caaagugcuguucgugcaggCag...	7	1	Z3_
.........caaagugcuguucgugcagguaC...	5	1	Z3_
.........caaagugcuguucgugcaAguag...	1	1	Z3_
.........caaagugcugCucgugcagguuag...	2	1	Z3_
........cGaagugcuguucgugcagguuag...	6	1	Z3_
........caaagCgcuguucgugcagguuag...	1	1	Z3_
.........caaagugcuguuAgugcagguuag...	1	1	Z3_
.........caaagugcuguucgugcGgguag..	4	1	Z3_
.........caaagugcuguucguCcgguag..	1	1	Z3_
.........caaagugcuguucgugcagguuagC..	28	1	Z3_
.........caaagugcuguucgugcagguGgu..	1	1	Z3_
.........caaagugcAguucgugcagguuagu..	1	1	Z3_
.........caaagugcuguucgugcagguuagA..	852	1	Z3_
.........caaagugcuguucgugUagguuagu..	1	1	Z3_
.........caaagugcuguucgugcagguUgu..	1	1	Z3_
.........caaagugcuguucgugcagguuagu............................**hsa-miR-93-3p**....................	377	0	Z3_
.........cCaagugcuguucgugcagguuagu..............................**acugcugagcuagcacuucccg**.............	1	1	Z3_
.........cGaagugcuguucgugcagguuagu..	2	1	Z3_

hsa-miR-93-5p

hsa-miR-93-3p

cuggggcuccaaagugcuguucgugcagguagugugauuacccaaccuacugcugagcuagcacuucccgagcccccgg

Sequence	Count	Flag	ID
.........caGagugcuguucgugcagguagu..	2	1	Z3_
.........caaagugcuguucgCgcagguagu..	2	1	Z3_
.........caaagugcuguucgugcagguaAu..	5	1	Z3_
.........caaGgugcuguucgugcagguagu..	4	1	Z3_
.........caaagugcuguucgugcaAguagu..	2	1	Z3_
.........caaagugcuguucgugcaggGagu..	1	1	Z3_
.........caaagugUuguucgugcagguagu..	2	1	Z3_
.........caaagugcCguucgugcagguagu..	1	1	Z3_
.........caaagugcuguucgugcagguaCu..	2	1	Z3_
.........caaagugcuguUgugcagguagu..	1	1	Z3_
.........caaagCgcuguucgugcagguagu..	1	1	Z3_
.........caaagugcuguucgugcaggCagu..	1	1	Z3_
.........caaagugcuguucgugcGgguagu..	2	1	Z3_
.........caaagugcuUuucgugcagguagu..	1	1	Z3_
.........caaagugcugCucgugcagguagu..	2	1	Z3_
.........Uaaagugcuguucgugcagguagu..	3	1	Z3_
.........caaagugcuguucgugcagguagG..	22	1	Z3_
.........caaagugcuguucgugcagguagAg...	1	1	Z3_
.........caaagugcuguucgugcagguaguC...	2	1	Z3_
.........caaagugcuguucgugcagguaguU...	10	1	Z3_
.........caaagugcuguucgugcagguagAgu..	4	1	Z3_
..........aaagugcuguucgugcaggu...	1	0	Z3_
..........aaagugcuguucgugcaggua..	1	0	Z3_
..........aaagugcuguucgugcagguag...	5	0	Z3_
..........aaagugcuguucgugcagguagA..	5	1	Z3_
..........Caagugcuguucgugcagguagu..	1	1	Z3_
..........aaagugcuguucgugcagguagu..	9	0	Z3_
..........aaagugcuguucgugcagguagC..	1	1	Z3_
..........aGagugcuguucgugcagguagu..	1	1	Z3_
..........aaagugcuguucgugcagguagug...	3	0	Z3_
....acugcugagcuagcacuucccg.........	10	0	Z3_
....acugUugagcuagcacuucccga........	1	1	Z3_
....acugcugagcuagcacuucccga........	24	0	Z3_
....acugcugagcuagcacuucccgU........	1	1	Z3_
....acugcugagcuagcacuucccG........	2	1	Z3_
....acugcugagcuagcacuucccgaA.......	1	1	Z3_
....acugcugagcuagcacuucccgagA......	4	1	Z3_
.........caaagugcuguucgugcagg..	15	0	Z2_
.........caaagugcCguucgugcagg..	1	1	Z2_
.........caaagugcuguucgugUagg..	5	1	Z2_
.........caaagugcuAuucgugcaggu...	2	1	Z2_
.........caaagugcuguucAugcaggu...	1	1	Z2_
.........caaagugcuguucgugcCggu...	2	1	Z2_
.........caaagugcCguucgugcaggu...	5	1	Z2_
.........caaagugcuguucgugcaggC...	54	1	Z2_
.........caaagugcugCucgugcaggu...	3	1	Z2_
.........caaagugcuguucgAgcaggu...	1	1	Z2_
.........caGagugcuguucgugcaggu...	4	1	Z2_
.........cGaagugcuguucgugcaggu...	3	1	Z2_
.........caaagugUuguucgugcaggu...	1	1	Z2_
.........caaagugcuguucCugcaggu...	1	1	Z2_
.........caaagugcuguucgugcagAu...	1	1	Z2_
.........caaagAgcuguucgugcaggu...	2	1	Z2_
.........caaagugcuguucgugcaggA...	13	1	Z2_
.........caaagugcAguucgugcaggu...	2	1	Z2_
.........caaagugcuguucgugcGggu...	2	1	Z2_
.........caaagugcuguCcgugcaggu...	8	1	Z2_
.........caaagugcuguuUgugcaggu...	3	1	Z2_
.........Uaaagugcuguucgugcaggu...	3	1	Z2_
.........caaagCgcuguucgugcaggu...	1	1	Z2_
.........Aaaagugcuguucgugcaggu...	2	1	Z2_
.........caUagugcuguucgugcaggu...	1	1	Z2_
.........caaagugcuguucgugUaggu...	24	1	Z2_
.........caaagugcuguucgugcUggu...	2	1	Z2_
.........caaaAugcuguucgugcaggu...	1	1	Z2_
.........caaagugcuguucgugcaggG...	4	1	Z2_
.........caaagugcuguucgugcaggu...ugugauuacccaaccuacugcugagcuagcacuucccgagcccccgg....	889	0	Z2_
.........caaaguAcguucgugcaggu..	3	1	Z2_

hsa-miR-93-5p

hsa-miR-93-3p

cuggggcuccaaagugcuguucgugcagguagugugauuacccaaccuacugcugagcuagcacuucccgagccccgg

```
..........caaGgugcuguucgugcaggu.............................................    3      1    Z2_
.........caaagugcuguCcgugcaggua.............................................    1      1    Z2_
.........caaagugcuguucgugcaggua.............................................  433      0    Z2_
.........caaagugcuguucgugcagguU.............................................    2      1    Z2_
.........caaagugcugGucgugcaggua.............................................    1      1    Z2_
.........caaagugcuguucgCgcaggua.............................................    3      1    Z2_
.........caaGgugcuguucgugcaggua.............................................    2      1    Z2_
.........caaagugcugCucgugcaggua.............................................    3      1    Z2_
.........caaaagugUguucgugcaggua.............................................    4      1    Z2_
.........caaagugcuguucgugcaggCa.............................................    1      1    Z2_
.........caaagugcuguucgugGaggua.............................................    1      1    Z2_
.........caaagugcuguucUugcaggua.............................................    1      1    Z2_
.........caaagugcuguucAugcaggua.............................................    1      1    Z2_
.........caaagugcuguucgugcGggua.............................................    3      1    Z2_
.........caaagugcuguuUgugcaggua.............................................    1      1    Z2_
.........caaagugcuguucgugUaggua.............................................   19      1    Z2_
.........caaagCgcuguucgugcaggua.............................................    1      1    Z2_
.........caaagugcuguucgugcUggua.............................................    2      1    Z2_
.........caGagugcuguucgugcaggua.............................................    2      1    Z2_
.........caaagugcuguucgugcagguG.............................................    2      1    Z2_
.........caaagugcuAuucgugcaggua.............................................    2      1    Z2_
.........caaagugAuguucgugcagguag............................................    1      1    Z2_
.........caaagugcCguucgugcagguag............................................    7      1    Z2_
.........caaagugcuguucgCgcagguag............................................   13      1    Z2_
.........caaagugcuguucguAcagguag............................................    4      1    Z2_
.........cCaagugcuguucgugcagguaG............................................    1      1    Z2_
.........caaaAugcuguucgugcagguag............................................    5      1    Z2_
.........Gaaagugcuguucgugcagguag............................................    3      1    Z2_
.........caaGgugcuguucgugcagguag............................................    3      1    Z2_
.........caaagugcuguucgugcaUguag............................................    1      1    Z2_
.........caaagugcuguuUgugcagguag............................................    4      1    Z2_
.........caaUgugcuguucgugcagguag............................................    1      1    Z2_
.........caaagugcuguucgugcGgguag............................................   15      1    Z2_
.........caaagugcuguucgugcagguUg............................................    2      1    Z2_
.........caaagugcuguucgugcCgguag............................................    1      1    Z2_
.........Uaaagugcuguucgugcagguag............................................   16      1    Z2_
.........caaagugcuguucgugcaAguag............................................    3      1    Z2_
.........caaagugcuguucgugcagguaA............................................   70      1    Z2_
.........cGaagugcuguucgugcagguag............................................    8      1    Z2_
.........caaagGgcuguucgugcagguag............................................    1      1    Z2_
.........caaagugcuguucgugUagguag............................................   22      1    Z2_
.........caaagugcugAucgugcagguag............................................    1      1    Z2_
.........caaagugcuguucgugcagCuag............................................    1      1    Z2_
.........caaagCgcuguucgugcagguag............................................   10      1    Z2_
.........caGagugcuguucgugcagguag............................................   15      1    Z2_
.........caaagugcuguucgugcagguag............................................ 2045      0    Z2_
.........caaagugcugCucgugcagguag............................................    3      1    Z2_
.........caaagAgcuguucgugcagguag............................................    4      1    Z2_
.........caaagugcuguucgugcagguGg............................................    1      1    Z2_
.........caaagugUuguucgugcagguag............................................    4      1    Z2_
.........caaagugcAguucgugcagguag............................................    2      1    Z2_
.........caaagugcuguucgugcagguaU............................................    9      1    Z2_
.........caaagugcuAuucgugcaggua.............................................    6      1    Z2_
.........caaagugcuguucgugcaggCag............................................    3      1    Z2_
.........caaagugcuguucgugcagguaC............................................    5      1    Z2_
.........caaagugcuguucgugcaggGag............................................    1      1    Z2_
.........caaagugcuguucAugcagguag............................................    9      1    Z2_
.........caaagugcuguCcgugcagguag............................................   10      1    Z2_
.........caaaguAcuguucgugcagguag............................................    1      1    Z2_
.........caaagugcuguucgugcUgguag............................................    7      1    Z2_
.........caUagugcuguucgugcagguag............................................    1      1    Z2_
.........caaagugcuguuAgugcagguag............................................    2      1    Z2_
.........Aaaagugcuguucgugcagguag............................................    2      1    Z2_
.........caaagCgcuguucgugcagguagu...........................................    2      1    Z2_
.........caaagugcuguucAugcagguagu...........................................    1      1    Z2_
.........caaagugcuguucgugcGgguagu...........................................    2      1    Z2_
.........caGagugcuguucgugcagguagu...........................................    1      1    Z2_
cugggg....caaagugcuguucgugcagAuagu.gugauuacccaaccuacugcugagcuagcacuucccgagcccc....    1      1    Z2_
.........caaagugcuguucgugcagguagG...........................................   17      1    Z2_
```

cuggggcuccaaagugcuguucgugcagguagugugauuacccaaccuacugcugagcuagcacuucccgagcccccgg

```
.........caaagugcuguucgugcagguaAu................................................   1      1   Z2_
.........caaagugcCguucgugcagguagu................................................   2      1   Z2_
.........caaagugcuguucgugcUgguagu................................................   1      1   Z2_
.........caaGgugcuguucgugcagguagu................................................   4      1   Z2_
.........caaagugcuguucgugcaggCagu................................................   4      1   Z2_
.........caaagugcuguuUgugcagguagu................................................   1      1   Z2_
.........caaagugcuguucgugcagguagA................................................   1505   1   Z2_
.........Aaaagugcuguucgugcagguagu................................................   1      1   Z2_
.........cGaagugcuguucgugcagguagu................................................   2      1   Z2_
.........caaagugcuguucgugcagguagu................................................   418    0   Z2_
.........caaaguCcguucgugcagguagu.................................................   1      1   Z2_
.........Uaaagugcuguucgugcagguagu................................................   6      1   Z2_
.........caaagugcuguucGcagguagu..................................................   3      1   Z2_
.........caaagugcuguCcgugcagguagu................................................   1      1   Z2_
.........caaagugcuAuucgugcagguagu................................................   1      1   Z2_
.........caaagugcGguucgugcagguagu................................................   1      1   Z2_
.........caaagugcuguucgugcagguagC................................................   27     1   Z2_
.........caaagugcugCucgugcagguagu................................................   6      1   Z2_
.........caaagugcuguucgugcagguaguC...............................................   3      1   Z2_
.........caaagugcuguucgugcagguaguU...............................................   27     1   Z2_
.........caaagugcuguucgugcagguagAg...............................................   8      1   Z2_
.........caaagugcuguucgugcagguagAgu..............................................   11     1   Z2_
.........Caagugcuguucgugcaggu....................................................   1      1   Z2_
.........aaaagugcuguucgugcaggu...................................................   3      0   Z2_
.........aaaagugcuguucCugcaggu...................................................   1      1   Z2_
.........aaaagugcuguucgugcaggua..................................................   3      0   Z2_
.........aaGgugcuguucgugcagguag.................................................   1      1   Z2_
.........aaaagugcuguucgugcaUguag................................................   1      1   Z2_
.........aaaagugcuguucgugcagguag................................................   12     0   Z2_
.........aaaagugcuguucgCgcagguagu...............................................   1      1   Z2_
.........aaaagugcuguucgugcagguagA...............................................   14     1   Z2_
.........aaaagugcuguucgugcagguagu...............................................   4      0   Z2_
.........aaaagugcuguucgugcagguagC...............................................   3      1   Z2_
.........aaaagugcuguucgugcGgguagu...............................................   1      1   Z2_
............gugcuguucgugcagguag..................................................   3      0   Z2_
............................................................acugcugagcuagcacuucccg.........   24   0   Z2_
............................................................acugcugagcuagcacCucccg.........   1    1   Z2_
............................................................acugcugagcuagcacuucccA.........   5    1   Z2_
............................................................acugcugagcuagcaUuucccga........   1    1   Z2_
............................................................acugcugagcuagcacuucccga........   66   0   Z2_
............................................................Gcugcugagcuagcacuucccga........   2    1   Z2_
............................................................acugcugagcuagcacuucCUga........   1    1   Z2_
............................................................acugcugagcuagcacuucccgU........   8    1   Z2_
............................................................cugcugagcuagcacuucccga........   2    0   Z2_


.........caaagugcuguucgugca......................................................   1    0   Z1_
.........caaagugcuguucgugcag.....................................................   1    0   Z1_
.........caaagugcuguucgugUag.....................................................   2    1   Z1_
.........caaagugcuguucgugcGgg....................................................   1    1   Z1_
.........caaagugcuguucgugUagg....................................................   6    1   Z1_
.........caaagugcuguucgugcagg....................................................   72   0   Z1_
.........caaagugcuguCcgugcagg....................................................   1    1   Z1_
.........caaagugcuguucgugcagA....................................................   5    1   Z1_
.........caaagUuguucgugcagg......................................................   1    1   Z1_
.........caaagugcuguuUgugcaggu...................................................   6    1   Z1_
.........caaagugcuguucgugcaAgu...................................................   1    1   Z1_
.........caaagugcugCucgugcaggu...................................................   5    1   Z1_
.........caaagugcuguucgugcaggC...................................................   146  1   Z1_
.........cUaagugcuguucgugcaggu...................................................   3    1   Z1_
.........caaagugAuguucgugcaggu...................................................   3    1   Z1_
.........caaagugcuguucgGgcaggu...................................................   1    1   Z1_
.........cGaagugcuguucgugcaggu...................................................   6    1   Z1_
.........caaagugcuguucgCgcaggu...................................................   11   1   Z1_
.........caaGgugcuguucgugcaggu...................................................   3    1   Z1_
.........caaagugcuguucgugcGggu...................................................   4    1   Z1_
.........caaagugcuguucgugcaggG...................................................   3    1   Z1_
.........caaagugcuguucguAcaggu...................................................   3    1   Z1_
cuggggcc.caaagugcuguCcgugcaggu...................................................   6    1   Z1_
.........caaagugcuguucgugUaggu...................................................   23   1   Z1_
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hsa-miR-93-3p

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Sequence			
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.........caaagugcugAucgugcaggu..	1	1	Z1_
.........caaagugcuguucgugcaggA..	41	1	Z1_
.........caaagugcAguucgugcaggu..	2	1	Z1_
.........caaagugUuguucgugcaggu..	7	1	Z1_
.........caaagugcGguucgugcaggu..	1	1	Z1_
.........caGagugcuguucgugcaggu..	11	1	Z1_
.........caaagugcCguucgugcaggu..	5	1	Z1_
.........caaagugcuguucgugcUggu..	1	1	Z1_
.........caaagugcuguuAgugcaggu..	1	1	Z1_
.........caaagugcuguucgugcagAu..	1	1	Z1_
.........caaaguAcuguucgugcaggu..	1	1	Z1_
.........caaagAgcuguucgugcaggu..	2	1	Z1_
.........caaagugcuguucgugcaggu..	1555	0	Z1_
.........Uaaagugcuguucgugcaggu..	5	1	Z1_
.........caaagCgcuguucgugcaggu..	14	1	Z1_
.........caaagugcuguucAugcaggu..	1	1	Z1_
.........caaagugAuguucgugcaggua...	1	1	Z1_
.........caaagugcuguucgugcagAua...	2	1	Z1_
.........caaagugcuguUgugcaggua...	2	1	Z1_
.........caaagugcuguucCugcaggua...	1	1	Z1_
.........caaagugcuguucgugcaggGa...	2	1	Z1_
.........caaagugcuguucgugcGggua...	2	1	Z1_
.........Uaaagugcuguucgugcaggua...	5	1	Z1_
.........caaGgugcuguucgugcaggua...	1	1	Z1_
.........caaagugcuguucgugcaAgua...	2	1	Z1_
.........caaagugcuguucgugcaggCa...	4	1	Z1_
.........caaagugcuguucgugcaggua...	597	0	Z1_
.........caaagugcuguucgCgcaggua...	2	1	Z1_
.........caaagugUuguucgugcaggua...	5	1	Z1_
.........caGagugcuguucgugcaggua...	5	1	Z1_
.........caaagCgcuguucgugcaggua...	2	1	Z1_
.........caaagugcuguucgugUaggua...	10	1	Z1_
.........caaagugcuguucgugcagguU...	7	1	Z1_
.........cUaagugcuguucgugcaggua...	3	1	Z1_
.........caaagugcuguCcgugcaggua...	6	1	Z1_
.........caaagugcuguucgugcCggua...	1	1	Z1_
.........caaagugcuAuucgugcaggua...	1	1	Z1_
.........caaaguAcuguucgugcaggua...	1	1	Z1_
.........caaagugcuguucgugcUggua...	1	1	Z1_
.........caaagugcuguucgugcagguG...	2	1	Z1_
.........caaagugcuguucguAcaggua...	1	1	Z1_
.........caaagugcuguucAugcaggua...	4	1	Z1_
.........caaagcCguucgugcaggua...	2	1	Z1_
.........cGaagugcuguucgugcaggua...	1	1	Z1_
.........caUagugcuguucgugcagguag..	1	1	Z1_
.........caaagugcugCucgugcagguag..	13	1	Z1_
.........caaagugcuguucgugUagguag..	19	1	Z1_
.........caaagugAuguucgugcagguag..	1	1	Z1_
.........caGagugcuguucgugcagguag..	8	1	Z1_
.........cUaagugcuguucgugcagguag..	3	1	Z1_
.........caaagugcuguCcgugcagguag..	10	1	Z1_
.........caaagCgcuguucgugcagguag..	8	1	Z1_
.........caaagugcuguucgugcUgguag..	3	1	Z1_
.........caaagugcuguucCugcagguag..	1	1	Z1_
.........caaagugcuguAcgugcagguag..	2	1	Z1_
.........caaagugcuguucgugcagguaC..	8	1	Z1_
.........caaaAugcuguucgugcagguag..	4	1	Z1_
.........caaagugcuguucgugcaAguag..	2	1	Z1_
.........caaGgugcuguucgugcagguag..	4	1	Z1_
.........caaagugcuguucgugcGgguag..	4	1	Z1_
.........caaagugUuguucgugcagguag..	3	1	Z1_
.........caaagugcuguucgugcaggAag..	1	1	Z1_
.........caaCgugcuguucgugcagguag..	1	1	Z1_
.........caaagugcuguucgugcagguaU..	21	1	Z1_
.........caaagugcuguucgugcagguUg..	1	1	Z1_
.........caaagugcuguucgugcagguGg..	6	1	Z1_
cuggggc....Uaaagugcuguucgugcagguag...ugugauuacccaaccuacugcugagcuagcacuucccg....agcccc..	6	1	Z1_
.........caaagugcuguucgugcagguag..	2030	0	Z1_

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```
..........caaagugcuguucguAcagguag...............................................    3      1    Z1_
..........caaagugcuguucgugcagguaA...............................................    98     1    Z1_
..........caaagugcuguucgugcaggGag...............................................    1      1    Z1_
..........Aaaagugcuguucgugcagguag...............................................    2      1    Z1_
..........caaagugcuguucgugAagguag...............................................    1      1    Z1_
..........caaagugcuguucgCgcagguag...............................................    11     1    Z1_
..........caaagugcuguuUgugcagguag...............................................    4      1    Z1_
..........caaagugcuguucgugcagguCg...............................................    1      1    Z1_
..........caaagugcCguucgugcagguag...............................................    6      1    Z1_
..........caaagugcuAuucgugcagguag...............................................    2      1    Z1_
..........cGaagugcuguucgugcagguag...............................................    15     1    Z1_
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..........caaaguAcguucgugcagguag...............................................    3      1    Z1_
..........caaagugcuguucAugcagguag...............................................    2      1    Z1_
..........caaagugcuguucgGgcagguag...............................................    4      1    Z1_
..........caaagugcuguucgugcaggCag...............................................    6      1    Z1_
..........caaagugcuguucgugcagguGgu..............................................    1      1    Z1_
..........caaagugcuguucgugcagguagu..............................................    1076   0    Z1_
..........caaagugcuguucgugcagUuagu..............................................    1      1    Z1_
..........caaagugcuguucgugcagguaAu..............................................    1      1    Z1_
..........caaagugcuguCcgugcagguagu..............................................    4      1    Z1_
..........caaaguCcguucgugcagguagu..............................................    1      1    Z1_
..........caaagugcuguucgugcaggAagu..............................................    3      1    Z1_
..........caaagugcuguucgugcagguagG..............................................    41     1    Z1_
..........caaagugcCguucgugcagguagu..............................................    8      1    Z1_
..........caaagugcuguucAugcagguagu..............................................    1      1    Z1_
..........caaagugcuguucgugcagguaCu..............................................    2      1    Z1_
..........cCaagugcuguucgugcagguagu..............................................    1      1    Z1_
..........caaagugcuguucgugcaggCagu..............................................    3      1    Z1_
..........caaagugcuguucgugcUgguagu..............................................    1      1    Z1_
..........caaagugcuguucgugcaAguagu..............................................    2      1    Z1_
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..........caaagugcugCucgugcagguagu..............................................    4      1    Z1_
..........caaagugcAguucgugcagguagu..............................................    3      1    Z1_
..........caaagugcugAucgugcagguagu..............................................    1      1    Z1_
..........caaagugcuguucgCgcagguagu..............................................    5      1    Z1_
..........caaagCgcuguucgugcagguagu..............................................    4      1    Z1_
..........caaagugcuguuAgugcagguagu..............................................    1      1    Z1_
..........caaagugcGguucgugcagguagu..............................................    1      1    Z1_
..........caGagugcuguucgugcagguagu..............................................    6      1    Z1_
..........caaaAugcuguucgugcagguagu..............................................    3      1    Z1_
..........caaagugcuguucgugcagguUgu..............................................    1      1    Z1_
..........caaaguUguucgugcagguagu..............................................    7      1    Z1_
..........caaagugcuguucguUcagguagu..............................................    1      1    Z1_
..........caaagugcuguucgugAagguagu..............................................    2      1    Z1_
..........caaagugcuguucgugcagguagA..............................................    2145   1    Z1_
..........caaagugcuAuucgugcagguagu..............................................    1      1    Z1_
..........caaagugcuguucgugcagguaUu..............................................    5      1    Z1_
..........caaagugcuguucgugcaggGagu..............................................    1      1    Z1_
..........caaagugcuguucgugcagguagC..............................................    77     1    Z1_
..........caaagugcuguucgugcGgguagu..............................................    5      1    Z1_
..........caaGgugcuguucgugcagguagu..............................................    10     1    Z1_
..........caaagugcuguucgugcagAuagu..............................................    2      1    Z1_
..........caaagugcuguucgugUagguagu..............................................    2      1    Z1_
..........cGaagugcuguucgugcagguagu..............................................    8      1    Z1_
..........Uaaagugcuguucgugcagguagu..............................................    4      1    Z1_
..........caaagugcuguucgugcagguagug.............................................    2      0    Z1_
..........caaagugcuguucgugcagguaguC.............................................    1      1    Z1_
..........caaagugcuguucgugcagguaguU.............................................    13     1    Z1_
..........caaagugcuguucgugcagguagAg.............................................    7      1    Z1_
..........caaagugcuguucgugcagguagAgu............................................    8      1    Z1_
...........aaagugcuguucgugcaggC.................................................    4      1    Z1_
...........aaagugcuguucgugcaggu.................................................    3      0    Z1_
...........aaagugcuguucgugcagguU................................................    2      1    Z1_
..........aaagugcuguucgugcagguga..............................................    1      0    Z1_
...........aaagugcuguucgugcagguag...............................................    13     0    Z1_
cuggggggcuc.Caagugcuguucgugcagguag...gugauuacccaaccuacugcugagcuagcacuucccgagccccccgg    1      1    Z1_
...........aaagCgcuguucgugcagguag...............................................    1      1    Z1_
```

```
                    hsa-miR-93-5p
                                        hsa-miR-93-3p
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..........Caagugcuguucgugcagguagu..............................................     1      1    Z1_
..........Uaagugcuguucgugcagguagu..............................................     1      1    Z1_
..........aaagugcuguucgugcagguagu..............................................    24      0    Z1_
..........aaagugcuguucgugcagguagA..............................................    34      1    Z1_
..........aaagugcuguucgugcagguagC..............................................     1      1    Z1_
..........aaagugcuguucgugcagguagug.............................................     2      0    Z1_
..........aaagugcuguucgugcagguagugu............................................     4      0    Z1_
...........aagugcuguucgugcagguaA..............................................     1      1    Z1_
...........aagugcuguucgugcagguag..............................................     1      0    Z1_
...........aagugcuguucgugcagguagC.............................................     1      1    Z1_
..............................ugugauuacccaaccuacugcugag.......................     1      0    Z1_
....................................cuacugcugagcuagcacu...............         2      0    Z1_
........................................acugcugagcuagcacuucccA.........         1      1    Z1_
........................................acugcugagcuagcacuucccg.........        18      0    Z1_
........................................acugcugagcuagcacuucccU.........         1      1    Z1_
........................................acugcugagcuagcacuucccga........        62      0    Z1_
........................................acugcugagcuUgcacuucccga........         1      1    Z1_
........................................acugcugagcuagUacuucccga........         1      1    Z1_
........................................acugcugagcuagcacuucccgU........         3      1    Z1_
........................................acugcugagcuagcacuucccgG........         1      1    Z1_
........................................acugcuAagcuagcacuucccga........         1      1    Z1_
........................................acugcugagcuagcacuucccgaA.......         6      1    Z1_
........................................acugcugagcuagcacuucccgag.......         1      0    Z1_
........................................acugcugagcuagcacuucccgaU.......         1      1    Z1_
........................................acugcugagcuagcacuucccgagU......         1      1    Z1_
........................................acugcugagcuagcacuucccgagA......         4      1    Z1_


.........caaagugcuguucgugca....................................................     7      0    GDM
.........caaagugcuguucgugca....................................................     7      0    GDM
.........caaagugcuguucgugca....................................................     7      0    GDM
.........caaagugcuguucgugUa....................................................     2      1    GDM
.........caaagugcuguucgugcag...................................................     7      0    GDM
.........caaagugcuguucgugcaA...................................................     1      1    GDM
.........caaagugcuguucgugcag...................................................     7      0    GDM
.........caaagugcugCucgugcagg..................................................     2      1    GDM
........caaUgugcuguucgugcagg...................................................     2      1    GDM
.........caaagugcuguucgugUagg..................................................    26      1    GDM
........caUagugcuguucgugcagg...................................................     3      1    GDM
.........caaagugcuguucgugcagA..................................................    14      1    GDM
........caGagugcuguucgugcagg...................................................     3      1    GDM
.........caaagugcuguucgugcagC..................................................     2      1    GDM
.........caaagugcuguucgCgcagg..................................................     2      1    GDM
........Uaaagugcuguucgugcagg...................................................     3      1    GDM
........caGagugcuguucgugcagg...................................................     3      1    GDM
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........caaagugcCguucgugcagg...................................................     1      1    GDM
........caaagugcugCucgugcagg...................................................     2      1    GDM
........caaagugcuguucgugcagA...................................................    14      1    GDM
........caaagugcuguucgugcagg...................................................   251      0    GDM
........caaagugcuguucAugcagg...................................................     1      1    GDM
........caaagugcuguucgugcagg...................................................   251      0    GDM
........caaagugcuguCcgugcagg...................................................     1      1    GDM
........caaagugcAguucgugcagg...................................................     3      1    GDM
........Gaaagugcuguucgugcagg...................................................     1      1    GDM
........caaagugcuguucgugUagg...................................................    26      1    GDM
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........caUagugcuguucgugcagg...................................................     3      1    GDM
........caaagugcuguucgugcCgg...................................................     1      1    GDM
........caaagugcuguucgCgcagg...................................................     2      1    GDM
........caaagugcuCuucgugcaggu..................................................     1      1    GDM
........caaagugcuguucgugcUggu..................................................     8      1    GDM
........caaUgugcuguucgugcaggu..................................................     4      1    GDM
......caaGgugcuguucgugcaggu....................................................    23      1    GDM
......caaagCgcguucgugcaggu.....................................................    21      1    GDM
.........caaagugcuguucgugcaggG...ugugauuacccaacc acugcugagcuagcacuucccg.........    11      1    GDM
.........caaagugcuguucgugcaggu.................................................  4757      0    GDM
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hsa-miR-93-3p

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..........caaagugcuguucguCcaggu...	2	1	GDM
..........caaagugcuguuUgugcaggu...	12	1	GDM
..........caaagugcuguucgAgcaggu...	5	1	GDM
..........caaagugcuguucgugcaggA...	131	1	GDM
..........caaagugcuguAcgugcaggu...	5	1	GDM
..........caaagugcuguucgugcaAgu...	2	1	GDM
..........caaagugcuguucgugcaggG...	11	1	GDM
..........caaagugcuguCcgugcaggu...	23	1	GDM
..........caaaagugcAguucgugcaggu...	7	1	GDM
..........caaagugcugCucgugcaggu...	13	1	GDM
..........caaagugcuguucgugcagAu...	5	1	GDM
..........caaagugcuguucgugcagCu...	2	1	GDM
.........caaaguAcguucgugcaggu...	10	1	GDM
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.........caaaAugcuguucgugcaggu...	4	1	GDM
.........caaagugcuguucgCgcaggu...	26	1	GDM
.........caGagugcuguucgugcaggu...	10	1	GDM
.........caaagugcuguucgugcagAu...	5	1	GDM
.........caaagugcuguucguAcaggu...	9	1	GDM
.........caaagugcuguucAugcaggu...	12	1	GDM
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.........caaagugcuguucgugcGggu...	28	1	GDM
.........caaagugcuguucgGgcaggu...	2	1	GDM
.........caaagugcuguuUgugcaggu...	12	1	GDM
.........caaagugcCguucgugcaggu...	27	1	GDM
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.........caaagugcuguucgugcCggu...	2	1	GDM
.........caaagugGuuucgugcaggu...	2	1	GDM
.........caaagugcuUuucgugcaggu...	1	1	GDM
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.........caaagAgcuguucgugcaggu...	3	1	GDM
.........caaagGgcuguucgugcaggu...	1	1	GDM
.........caaagugcugCucgugcaggu...	13	1	GDM
.........caaagugcuguucgugcaggu...	4757	0	GDM
.........caaagugcuguucAugcaggu...	12	1	GDM
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.........cUaagugcuguucgugcaggu...	3	1	GDM
.........caaagugcuguuUgugcaggu...	12	1	GDM
.........Gaaagugcuguucgugcaggu...	5	1	GDM
.........caaGgugcuguucgugcaggu...	23	1	GDM
.........caaagugcuguCcgugcaggu...	23	1	GDM
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.........caaagugcuguucgugcaggC...	370	1	GDM
.........caaagugcuguucgugcaggG...	11	1	GDM
.........caaagugcuguucgugcagAu...	5	1	GDM
.........caaagugcuguucgCgcaggu...	26	1	GDM
.........caaagugcuguucgugcaUgu...	2	1	GDM
.........caaagugcuAuucgugcaggu...	6	1	GDM
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.........caaagugcGguucgugcaggu...	7	1	GDM
.........caaagugcuguucgugcUggu...	8	1	GDM
.........caaagugcuguucgugUaggu...	57	1	GDM
.........caaagCgcuguucgugcaggu...	21	1	GDM
.........caaagugcuguucguAcaggu...	9	1	GDM
.........caaagugcuguucgugcGggu...	28	1	GDM
.........caaagugcuguucgugcaggA...	131	1	GDM
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.........caaagugcuguucguAcaggu...	9	1	GDM
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.........caaagugcuguucgCgcaggu.....................................................   26      1    GDM
.........caaagugcuguucgugcaggA.....................................................  131      1    GDM
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.........caaaguAcuguucgugcaggu.....................................................   10      1    GDM
.........caCagugcuguucgugcaggu.....................................................    1      1    GDM
.........caaagugcuguucgugGaggu.....................................................    3      1    GDM
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.........caaagugcuguuUgugcaggua....................................................    1      1    GDM
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.........caaagugcuguucgGgcaggua.............................................  1     1   GDM
.........caaagugcuguucgCgcaggua.............................................  11    1   GDM
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.........caaagugcuguucgugcagguU.............................................  21    1   GDM
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.........cGaagugcuguucgugcaggua.............................................  5     1   GDM
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.........caaagugcuguucgugcagguC.............................................  1     1   GDM
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.........caaagugcuguucgugcaggCag............................................  11    1   GDM
....cc....caaagugcuguucgugcaggCag...........................................  11    1   GDM
.........caaagugcuguucgugcagguaU............................................  78    1   GDM
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..........caaagugcugCucgugcagguag...............................................    45      1      GDM
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hsa-miR-93-5p

hsa-miR-93-3p

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.........caaagugUuguucgugcagguag..	7	1	GDM
.........caaagugcuguucgugcagguaU..	78	1	GDM
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.........caaagugcuguucgugcaggguaA...	243	1	GDM
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.........caaagugcuguucgugcagguCg..	97	1	GDM
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.........caaagugUuguucgugcagguag..	7	1	GDM
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.........caaagugcCguucgugcagguagu...	6	1	GDM
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.........caaGgugcuguucgugcagguagu...	3	1	GDM
.........caaagugUuguucgugcagguagu...	12	1	GDM
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..........caaagugcuguucgugUagguagu............................................    3     1    GDM
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..........Uaaagugcuguucgugcagguagu............................................    5     1    GDM
..........caaagugUuguucgugcagguagu............................................   12     1    GDM
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..........caaagugcuguucgugcagguagG............................................   60     1    GDM
..........caaagugcuguucgugcagguagA............................................ 3281     1    GDM
..........caaUgugcuguucgugcagguagu............................................    2     1    GDM
..........caGagugcuguucgugcagguagu............................................    8     1    GDM
..........caaagugcuguucgugcagguagG............................................   60     1    GDM
..........caaagugcuguucgugcagguaUu............................................   12     1    GDM
..........caaagugcuAuucgugcagguagu............................................    4     1    GDM
..........caUagugcuguucgugcagguagu............................................    3     1    GDM
..........caaagugcuguucgugcagguaAu............................................    9     1    GDM
..........Uaaagugcuguucgugcagguagu............................................    5     1    GDM
..........caaagugcuguCcgugcagguagu............................................    6     1    GDM
..........caaagugcuguucgugcagguaUu............................................   12     1    GDM
..........caaagugcuguucgugcaUguagu............................................    1     1    GDM
..........caaagugcuguucAugcagguagu............................................    6     1    GDM
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..........caaagugcuguucgugcagguagC............................................  102     1    GDM
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..........caaagugcuguucgugcagguagu............................................ 1402     0    GDM
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..........caaagugcuguucgugcagguaguC...........................................    2     1    GDM
..........caaagugcuguucgugcagguaguA...........................................    4     1    GDM
..........caaagugcuguucgugcagguagAg...........................................    7     1    GDM
..........caaagugcuguucgugcagguaguU...........................................   24     1    GDM
..........caaagugcuguucgugcagguagAg...........................................    7     1    GDM
..........caaagugcuguucgugcagguaguU...........................................   24     1    GDM
..........caaagugcuguucgugcagguagug...........................................    2     0    GDM
..........caaagugcuguucgugcagguaguA...........................................    4     1    GDM
..........caaagugcuguucgugcagguaguU...........................................   24     1    GDM
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..........caaagugcuguucgugcagguaguUu..........................................    2     1    GDM
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..........Caagugcuguucgugcaggu................................................    1     1    GDM
..........aaagugcuguucgugcaggu................................................   19     0    GDM
..........aaagugcuguucgugcaggC................................................    1     1    GDM
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..........aaagugcuguucgCgcaggu................................................    2     1    GDM
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..........Caagugcuguucgugcagguag..............................................    4     1    GDM
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..........aaagugcuguucgugcagguagC.............................................    2     1    GDM
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..........aaagugcuguucgugcagguagC.............................................    2     1    GDM
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hsa-miR-93-3p

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..........aaagugcuguucgugcagguagG.............................................    1    1    GDM
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..........aaagugcuguucgugcagguagu.............................................   43    0    GDM
..........aaagugcugCucgugcagguagu.............................................    1    1    GDM
..........aaagugcuguucgugcagguagA.............................................   44    1    GDM
..........aaagugcuguucgugcaggCagug............................................    2    1    GDM
..........aaagugcuguucgugcagguagug............................................    9    0    GDM
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....................................................cuacugcugGgcuagcacu............    1    1    GDM
....................................................cuacugcugagcuagcacuu...........    3    0    GDM
....................................................cuacugcugagcuagcacuuU..........    2    1    GDM
....................................................uacugcugagcuagcacuucc..........    1    0    GDM
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....................................................Ccugcugagcuagcacuucccga........    1    1    GDM
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....................................................acugcugagcuagcacuucccgag.......    3    0    GDM
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