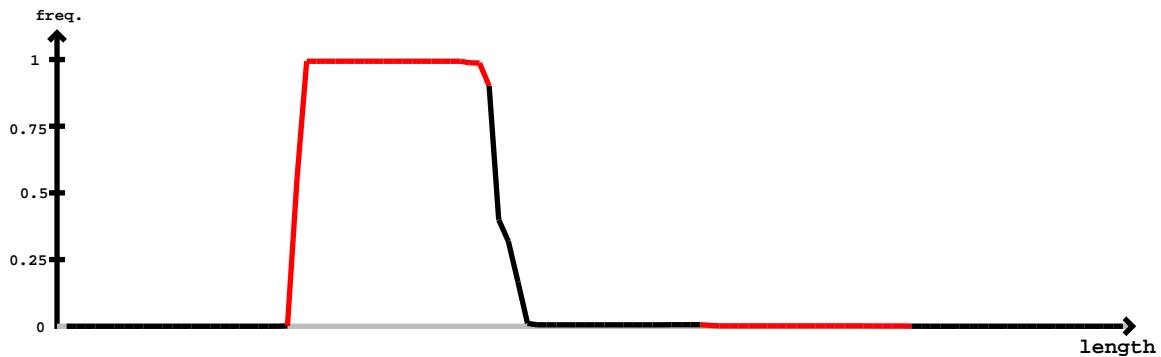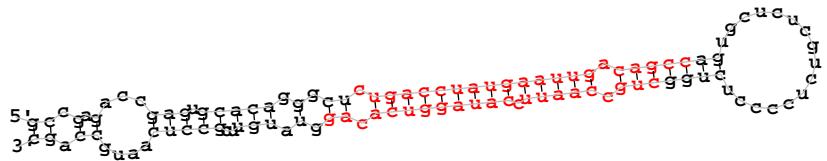miRBase precursor       : hsa-mir-192
Total read count        : 19502
hsa-miR-192-5p read count : 19376
hsa-miR-192-3p read count : 10
remaining reads         : 116

freq.

1

0.75

0.5

0.25

0

length

hsa-miR-192-5p

hsa-miR-192-3p

```
5'- gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucucccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc  -3'    exp
    .........(((.((((((.(.((.((((((((((((((((.((((((((.................)))))))).)))))).)))))))))).)).).))).))))).........    reads      mm       sample
    ....................Ccugaccuaugaauugacagcc............................................................................    1          1        Z1_
    ....................ucugaccuaugaauugacagcc............................................................................    2          0        Z1_
    ....................cugaccuaugaauugaca................................................................................    13         0        Z1_
    ....................cugaccuaugaauugacag...............................................................................    1          0        Z1_
    ....................cugaccuaugaaCugacagc..............................................................................    4          1        Z1_
    ....................cugUccuaugaauugacagcc.............................................................................    2          1        Z1_
    ....................Augaccuaugaauugacagcc.............................................................................    2          1        Z1_
    ....................cugaccuaugaauugacGgc..............................................................................    1          1        Z1_
    ....................cugaccuCugaauugacagcc.............................................................................    1          1        Z1_
    ....................cugGccuaugaauugacagcc.............................................................................    2          1        Z1_
    ....................cugaccuaugaaAugacagc..............................................................................    1          1        Z1_
    ....................cugaccuaugaauugacagA..............................................................................    7          1        Z1_
    ....................cugaccuaugaauugacagc..............................................................................    246        0        Z1_
    ....................cugaccuaugaauugacagU..............................................................................    36         1        Z1_
    ....................cugaccuaugaauugaUagc..............................................................................    4          1        Z1_
    ....................cugaccuaugaauugGcagc..............................................................................    3          1        Z1_
    ....................cugaccuaugGauugacagc..............................................................................    1          1        Z1_
    ....................cugaccCaugaauugacagc..............................................................................    1          1        Z1_
    ....................cugaccuaugaauugGcagcc.............................................................................    5          1        Z1_
    ....................cugaccuaugaauugacGgcc.............................................................................    11         1        Z1_
    ....................cAgaccuaugaauugacagcc.............................................................................    1          1        Z1_
    ....................cugaccuaGgaauugacagcc.............................................................................    2          1        Z1_
    ....................cugaccuaugaauugacagAc.............................................................................    1          1        Z1_
    ....................cugaccuaugaauugaUagcc.............................................................................    2          1        Z1_
    ....................cugaccAaugaauugacagcc.............................................................................    1          1        Z1_
    ....................cugaccuaugaauugaGagcc.............................................................................    1          1        Z1_
    ....................cuAaccuaugaauugacagcc.............................................................................    1          1        Z1_
    ....................cugaccuaugaauCgacagcc.............................................................................    10         1        Z1_
    ....................cugaccuaugaauugacCgcc.............................................................................    1          1        Z1_
    ....................cugUccuaugaauugacagcc.............................................................................    1          1        Z1_
    ....................cugaccuauAaauugacagcc.............................................................................    3          1        Z1_
    ....................cugaccCaugaauugacagcc.............................................................................    4          1        Z1_
    ....................cugaccuaugaauuAacagcc.............................................................................    2          1        Z1_
    ....................cCgaccuaugaauugacagcc.............................................................................    4          1        Z1_
```

```
gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

..........................cugaUcuaugaauugacagcc............................................................   1      1    Z1_
..........................cugaccuaAgaauugacagcc............................................................   5      1    Z1_
..........................cugaccuaugaaCugacagcc............................................................   4      1    Z1_
..........................cugaccuaugGauugacagcc............................................................   6      1    Z1_
..........................cuCaccuaugaauugacagcc............................................................   1      1    Z1_
..........................cugaccuaugaauugacagcG............................................................   1      1    Z1_
..........................cugaccuaugCauugacagcc............................................................   1      1    Z1_
..........................cugaccuaugaauugacaAcc............................................................   2      1    Z1_
..........................cugaccuaugaauugacagcA............................................................  80      1    Z1_
..........................cugaccuaugaauugUcagcc............................................................   3      1    Z1_
..........................cugaccuaugaauAgacagcc............................................................   1      1    Z1_
..........................cugaccuaugaGuugacagcc............................................................   2      1    Z1_
..........................cugaccuaugaaAugacagcc............................................................   1      1    Z1_
..........................cugaccuCugaauugacagcc............................................................   1      1    Z1_
..........................cugaccuaCgaauugacagcc............................................................   9      1    Z1_
..........................cugaccuaugaauugacagcc............................................................ 1215      0    Z1_
..........................Augaccuaugaauugacagcc............................................................   7      1    Z1_
..........................cugaGcuaugaauugacagcc............................................................   1      1    Z1_
..........................cugaccuaugaauugacagcU............................................................ 326      1    Z1_
..........................cugaccuaugaauugacagUc............................................................   4      1    Z1_
..........................cugaccuGugaauugacagcc............................................................   7      1    Z1_
..........................cugacAuaugaauugacagcc............................................................   4      1    Z1_
..........................cugGccuaugaauugacagcc............................................................   7      1    Z1_
..........................Gugaccuaugaauugacagcc............................................................   3      1    Z1_
..........................cugaccuaugaaCugacagcca...........................................................   2      1    Z1_
..........................cugaccuaugaGuugacagcca...........................................................   2      1    Z1_
..........................cugaccAaugaauugacagcca...........................................................   1      1    Z1_
..........................cugaccuaugaauugacagccU...........................................................  39      1    Z1_
..........................cugaccuaugaauugacagccC...........................................................   9      1    Z1_
..........................cCgaccuaugaauugacagcca...........................................................   1      1    Z1_
..........................cugacAuaugaauugacagcca...........................................................   1      1    Z1_
..........................cugaccuaugaauugacagcca...........................................................  80      0    Z1_
..........................cugaccuaugaauugacagccaC..........................................................  17      1    Z1_
..........................cugaccuaugaauugacagccaU.......................................................... 252      1    Z1_
..........................cugaccuaugaauugacagccaA..........................................................   3      1    Z1_
..........................cugaccuaugaauugacagccaUu.........................................................  30      1    Z1_
..........................cugaccuaugaauugacagccaAu.........................................................   2      1    Z1_
...........................ugaccuaugaauugacagU.............................................................   5      1    Z1_
...........................ugaccuaugaauugacagc.............................................................  46      0    Z1_
...........................ugaccuaugaauugGcagcc............................................................   2      1    Z1_
...........................ugaccuaCgaauugacagcc............................................................   1      1    Z1_
...........................ugaccCaugaauugacagcc............................................................   1      1    Z1_
...........................ugaccuaugaauugacUgcc............................................................   1      1    Z1_
...........................ugaccuaugaauCgacagcc............................................................   1      1    Z1_
...........................ugaccuaugaauugacagcA............................................................  14      1    Z1_
...........................ugaccuaugaaCugacagcc............................................................   1      1    Z1_
...........................Cgaccuaugaauugacagcc............................................................   3      1    Z1_
...........................ugacAuaugaauugacagcc............................................................   1      1    Z1_
...........................ugaccuaugaauugacagcU............................................................  58      1    Z1_
...........................ugaccuaugaGuugacagcc............................................................   1      1    Z1_
...........................ugaccuGugaauugacagcc............................................................   2      1    Z1_
...........................ugGcuaugaauugacagcc.............................................................   3      1    Z1_
...........................ugaccuaugaauugacGgcc............................................................   3      1    Z1_
...........................ugaccuaGgaauugacagcc............................................................   1      1    Z1_
...........................ugaccuaugaauugacagcc............................................................ 291      0    Z1_
...........................ugaccuaugaaCugacagcca...........................................................   1      1    Z1_
...........................Cgaccuaugaauugacagcca...........................................................   1      1    Z1_
...........................ugaccuaugaauugacGgcca...........................................................   1      1    Z1_
...........................ugaccuaugaauugaUagcca...........................................................   3      1    Z1_
...........................ugaccuaugaauugacagcca........................................................... 166      0    Z1_
...........................ugaccuaugaauCgacagcca...........................................................   1      1    Z1_
...........................ugaccuaugaauugacUgcca...........................................................   1      1    Z1_
...........................ugGccuaugaauugacagcca...........................................................   1      1    Z1_
...........................ugaccuaugaauugacagccG...........................................................   1      1    Z1_
...........................ugaccuaugaauugacagccC...........................................................   3      1    Z1_
...........................ugaccuaugaauugacagccU...........................................................  11      1    Z1_
```

```
...........................ugaccuaugaauugacGgccag.........................................................   2      1    Z1_
gccgagaccgagugcacaggg...ugaccuaCgaauugacagccag...cucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc   2      1    Z1_
...........................ugaccuaugGauugacagccag.........................................................   1      1    Z1_
```

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

| | | | |
|---|---|---|---|
| ...................................ugaccuaugaauugacagccag............................................................ | 124 | 0 | Z1_ |
| ...................................ugaccuaugaauugacagccaU............................................................ | 147 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccaA............................................................ | 7 | 1 | Z1_ |
| ...................................ugaccuaugaGuugacagccag............................................................ | 1 | 1 | Z1_ |
| ...................................ugaccAaugaauugacagccag............................................................ | 1 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccaC............................................................ | 13 | 1 | Z1_ |
| ...................................ugaUcuaugaauugacagccag............................................................ | 1 | 1 | Z1_ |
| ...................................ugaccuGugaauugacagccagu........................................................... | 1 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccaCu........................................................... | 3 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccagC........................................................... | 21 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccagu........................................................... | 328 | 0 | Z1_ |
| ...................................ugaccuauAaauugacagccagu........................................................... | 2 | 1 | Z1_ |
| ...................................ugaccuaugaauCgacagccagu........................................................... | 3 | 1 | Z1_ |
| ...................................ugaccuaugaauAgacagccagu........................................................... | 2 | 1 | Z1_ |
| ...................................ugGccuaugaauugacagccagu........................................................... | 1 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagcCGgu........................................................... | 4 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccaUu........................................................... | 12 | 1 | Z1_ |
| ...................................Ggaccuaugaauugacagccagu........................................................... | 1 | 1 | Z1_ |
| ...................................uAaccuaugaauugacagccagu........................................................... | 3 | 1 | Z1_ |
| ...................................Cgaccuaugaauugacagccagu........................................................... | 1 | 1 | Z1_ |
| ...................................ugaccuaugaauugacUgccagu........................................................... | 1 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccaAu........................................................... | 2 | 1 | Z1_ |
| ...................................ugaccCaugaauugacagccagu........................................................... | 1 | 1 | Z1_ |
| ...................................ugaccuaugaauugacGgccagu........................................................... | 2 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccagA........................................................... | 166 | 1 | Z1_ |
| ...................................ugacUuaugaauugacagccagu........................................................... | 2 | 1 | Z1_ |
| ...................................Agaccuaugaauugacagccagu........................................................... | 2 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccUgu........................................................... | 1 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccaguA.......................................................... | 3 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccaguU.......................................................... | 4 | 1 | Z1_ |
| ...................................ugaccuaugaauugacagccagAg.......................................................... | 4 | 1 | Z1_ |
| ...................................................agugcucucgucuccccucugA............................................ | 2 | 1 | Z1_ |
| ...................................................agugcucucgucuccccucugg............................................ | 14 | 0 | Z1_ |
| ...................................................aguAcucucgucuccccucugg............................................ | 2 | 1 | Z1_ |
| ...................................................agugcucucgucuccccucGgg............................................ | 1 | 1 | Z1_ |
| ...................................................agugcucucgucuccccucuggA........................................... | 5 | 1 | Z1_ |
| ...................................................gugcucucgucuccccucugU............................................. | 1 | 1 | Z1_ |
| ...............................................................cugccaauuccauaggucaca......................... | 4 | 0 | Z1_ |
| ...............................................................cugccaauuccauaggucGca......................... | 1 | 1 | Z1_ |
| ...............................................................cugccaauuccauaggucacaA........................ | 3 | 1 | Z1_ |
| | | | |
| .............................cucugaccuaugaauugaca............................................................. | 1 | 0 | GDM |
| .............................ucugaccuaugaauugacagc........................................................... | 1 | 0 | GDM |
| .............................ucugaccuaugaauugacagcc.......................................................... | 4 | 0 | GDM |
| .............................Ccugaccuaugaauugacagcc.......................................................... | 1 | 1 | GDM |
| .............................ucugaccuaugaauugacagcc.......................................................... | 4 | 0 | GDM |
| .............................ucugaccuaugaauugacagcc.......................................................... | 4 | 0 | GDM |
| .............................ucugaccuaugaauugacagcU.......................................................... | 1 | 1 | GDM |
| .............................ucugaccuaugaauugacagcA.......................................................... | 1 | 1 | GDM |
| .............................cugaccuaugaauugaca.............................................................. | 69 | 0 | GDM |
| .............................cugaccuaugaauCgaca.............................................................. | 1 | 1 | GDM |
| .............................cugaccuaugaGuugaca.............................................................. | 1 | 1 | GDM |
| .............................cugaccuaugaauugaca.............................................................. | 69 | 0 | GDM |
| .............................cugaccuaugaauugaca.............................................................. | 69 | 0 | GDM |
| .............................cCgaccuaugaauugaca.............................................................. | 1 | 1 | GDM |
| .............................cugaccCaugaauugaca.............................................................. | 1 | 1 | GDM |
| .............................cugaccuaugaauugCca.............................................................. | 1 | 1 | GDM |
| .............................cugaccuaugaauugacag............................................................. | 2 | 0 | GDM |
| .............................cugaccuGugaauugacagc............................................................ | 2 | 1 | GDM |
| .............................cugaccuaugaaCugacagc............................................................ | 2 | 1 | GDM |
| .............................Gugaccuaugaauugacagc............................................................ | 1 | 1 | GDM |
| .............................cugaccCaugaauugacagc............................................................ | 3 | 1 | GDM |
| .............................cugaccuaugaauugacagc............................................................ | 500 | 0 | GDM |
| .............................cugaccuaugGauugacagc............................................................ | 5 | 1 | GDM |
| .............................cugacUuaugaauugacagc............................................................ | 2 | 1 | GDM |
| .............................cugaccuaugaauugGcagc............................................................ | 1 | 1 | GDM |
| .............................cuAaccuaugaauugacagc............................................................ | 2 | 1 | GDM |
| gccgagaccgagugcacagggc.......cugaccuaugaauugacagA agugcucucgucuccccucggcugccaauuccauaggucacagguauguucgccucaaugccagc | 24 | 1 | GDM |
| .............................cugUccuaugaauugacagc............................................................ | 1 | 1 | GDM |

gccgagaccgagugcacagggcu<span style="color:red">cugaccuaugaauugacagcc</span>agugcucucgucuccccucugg<span style="color:red">cugccaauuccauaggucacag</span>guauguucgccucaaugccagc

| Sequence | Count | Val | Group |
|---|---|---|---|
| ....................cugaccuaugaauGgacagc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugaauugacUgc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugaauugacagU............................................................ | 75 | 1 | GDM |
| ....................cugacAuaugaauugacagc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugGauugacagc............................................................ | 5 | 1 | GDM |
| ....................cugaccuaugaGuugacagc............................................................ | 3 | 1 | GDM |
| ....................cugaccuaCgaauugacagc............................................................ | 2 | 1 | GDM |
| ....................cugaccAaugaauugacagc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugaaCugacagc............................................................ | 2 | 1 | GDM |
| ....................cugaccuaugaauAgacagc............................................................ | 2 | 1 | GDM |
| ....................cugaccCaugaauugacagc............................................................ | 3 | 1 | GDM |
| ....................cCgaccuaugaauugacagc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugaauugacagc............................................................ | 500 | 0 | GDM |
| ....................cugaccuaugaauugacagA............................................................ | 24 | 1 | GDM |
| ....................cugacUuaugaauugacagc............................................................ | 2 | 1 | GDM |
| ....................cugaccuaugaauugacaAc............................................................ | 2 | 1 | GDM |
| ....................cugaccuaugaauugacagU............................................................ | 75 | 1 | GDM |
| ....................cugaccuaugaauugacagA............................................................ | 24 | 1 | GDM |
| ....................cugaccuaugaauAgacagc............................................................ | 2 | 1 | GDM |
| ....................cugaccuaugaauugUcagc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugaauugaUagc............................................................ | 9 | 1 | GDM |
| ....................cugaUcuaugaauugacagc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugaauugacagc............................................................ | 500 | 0 | GDM |
| ....................Augaccuaugaauugacagc............................................................ | 2 | 1 | GDM |
| ....................cugaccuaCgaauugacagc............................................................ | 2 | 1 | GDM |
| ....................cugaccuUgaauugacagc............................................................ | 2 | 1 | GDM |
| ....................cugGccuaugaauugacagc............................................................ | 1 | 1 | GDM |
| ....................cugaccuaugaauugaUagc............................................................ | 9 | 1 | GDM |
| ....................cugaccuaugaauugacagU............................................................ | 75 | 1 | GDM |
| ....................cugaccuaugaauugacGgc............................................................ | 2 | 1 | GDM |
| ....................cugaccuaugaauugGcagcc........................................................... | 12 | 1 | GDM |
| ....................cugaccuauUaauugacagcc........................................................... | 1 | 1 | GDM |
| ....................cugaccuaugGauugacagcc........................................................... | 14 | 1 | GDM |
| ....................cugaccuaugaauugacagcU........................................................... | 682 | 1 | GDM |
| ....................cugaccuaugaauugacagcc........................................................... | 2480 | 0 | GDM |
| ....................cAgaccuaugaauugacagcc........................................................... | 7 | 1 | GDM |
| ....................Uugaccuaugaauugacagcc........................................................... | 7 | 1 | GDM |
| ....................cugaccuaugaGuugacagcc........................................................... | 15 | 1 | GDM |
| ....................cugUccuaugaauugacagcc........................................................... | 4 | 1 | GDM |
| ....................cugaccuaugaauugacagcc........................................................... | 2480 | 0 | GDM |
| ....................cCgaccuaugaauugacagcc........................................................... | 15 | 1 | GDM |
| ....................cugaccuaugaauGgacagcc........................................................... | 1 | 1 | GDM |
| ....................cugaccuaugGauugacagcc........................................................... | 14 | 1 | GDM |
| ....................cugaccuaugaaCugacagcc........................................................... | 12 | 1 | GDM |
| ....................cGgaccuaugaauugacagcc........................................................... | 1 | 1 | GDM |
| ....................cCgaccuaugaauugacagcc........................................................... | 15 | 1 | GDM |
| ....................Augaccuaugaauugacagcc........................................................... | 11 | 1 | GDM |
| ....................cugaccuaugaauCgacagcc........................................................... | 14 | 1 | GDM |
| ....................cugaccuaugaauugacagcU........................................................... | 682 | 1 | GDM |
| ....................cugaccuaugaauugacagAc........................................................... | 3 | 1 | GDM |
| ....................cugaccuaAgaauugacagcc........................................................... | 5 | 1 | GDM |
| ....................cugaccuaugaauugacagcG........................................................... | 3 | 1 | GDM |
| ....................cugacUuaugaauugacagcc........................................................... | 2 | 1 | GDM |
| ....................cugaccuaugaauAgacagcc........................................................... | 5 | 1 | GDM |
| ....................cugaccuaugaauuAacagcc........................................................... | 5 | 1 | GDM |
| ....................Uugaccuaugaauugacagcc........................................................... | 7 | 1 | GDM |
| ....................cugaccuaugaauugacagcc........................................................... | 2480 | 0 | GDM |
| ....................cugaccuaugaauugacaAcc........................................................... | 6 | 1 | GDM |
| ....................cugaccuaugaauuAacagcc........................................................... | 5 | 1 | GDM |
| ....................cugaccCaugaauugacagcc........................................................... | 11 | 1 | GDM |
| ....................cugaccuaCgaauugacagcc........................................................... | 11 | 1 | GDM |
| ....................cugaccuaugaauugacGgcc........................................................... | 13 | 1 | GDM |
| ....................cugaccuaAgaauugacagcc........................................................... | 5 | 1 | GDM |
| ....................cugaccuaugaauugaUagcc........................................................... | 8 | 1 | GDM |
| ....................cugaccAaugaauugacagcc........................................................... | 3 | 1 | GDM |
| ....................cugaccuauAaauugacagcc........................................................... | 9 | 1 | GDM |
| ....................cugaccuaugaauugacagUc........................................................... | 10 | 1 | GDM |
| gccgagaccgagugcacagggcucugaccuaugaauugacagGcagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc | 1 | 1 | GDM |
| ....................cugaccuaugaauugUcagcc........................................................... | 1 | 1 | GDM |

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucucccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

| | | | |
|---|---|---|---|
| ....................cugaccuaugaauugacagcA.............................................................................. | 181 | 1 | GDM |
| ....................cCgaccuaugaauugacagcc.............................................................................. | 15 | 1 | GDM |
| ....................cugGccuaugaauugacagcc.............................................................................. | 13 | 1 | GDM |
| ....................cugacAuaugaauugacagcc.............................................................................. | 1 | 1 | GDM |
| ....................cugaccuaugaGuugacagcc.............................................................................. | 15 | 1 | GDM |
| ....................cuAaccuaugaauugacagcc.............................................................................. | 7 | 1 | GDM |
| ....................cugaccuaugaauugacGgcc.............................................................................. | 13 | 1 | GDM |
| ....................cugaccuaugaauugacagcA.............................................................................. | 181 | 1 | GDM |
| ....................cugaccuaugaUuugacagcU.............................................................................. | 1 | 1 | GDM |
| ....................cugaccuGugaauugacagcc.............................................................................. | 17 | 1 | GDM |
| ....................cugaccuaugaauugaUagcc.............................................................................. | 8 | 1 | GDM |
| ....................cugaccuaugaauugacagUc.............................................................................. | 10 | 1 | GDM |
| ....................cAgaccuaugaauugacagcc.............................................................................. | 7 | 1 | GDM |
| ....................cugaccuaugUauugacagcc.............................................................................. | 4 | 1 | GDM |
| ....................cugaccuaugaaCugacagcc.............................................................................. | 12 | 1 | GDM |
| ....................cugaccuaugaGuugacagcc.............................................................................. | 15 | 1 | GDM |
| ....................cugaccuaCgaauugacagcc.............................................................................. | 11 | 1 | GDM |
| ....................cugaccuaugaauugacGgcc.............................................................................. | 13 | 1 | GDM |
| ....................Augaccuaugaauugacagcc.............................................................................. | 11 | 1 | GDM |
| ....................cugUccuaugaauugacagcc.............................................................................. | 4 | 1 | GDM |
| ....................cugaccuaugaauugacaUcc.............................................................................. | 1 | 1 | GDM |
| ....................cugaccuaugaauugacagcG.............................................................................. | 3 | 1 | GDM |
| ....................cugaAcuaugaauugacagcc.............................................................................. | 1 | 1 | GDM |
| ....................cugaUcuaugaauugacagcc.............................................................................. | 1 | 1 | GDM |
| ....................cugaccuaugaauugacaCcc.............................................................................. | 1 | 1 | GDM |
| ....................cugaccCaugaauugacagcc.............................................................................. | 11 | 1 | GDM |
| ....................cugaccuaugaauugaUagcc.............................................................................. | 8 | 1 | GDM |
| ....................cugaccuaugaauugacUgcc.............................................................................. | 5 | 1 | GDM |
| ....................cugaccuauAaauugacagcc.............................................................................. | 9 | 1 | GDM |
| ....................cugGccuaugaauugacagcc.............................................................................. | 13 | 1 | GDM |
| ....................cugaccuGugaauugacagcc.............................................................................. | 17 | 1 | GDM |
| ....................cugaccuaugaauugacaAcc.............................................................................. | 6 | 1 | GDM |
| ....................cugUccuaugaauugacagcc.............................................................................. | 4 | 1 | GDM |
| ....................cugaccuaugaauAgacagcc.............................................................................. | 5 | 1 | GDM |
| ....................cugaccuaugaaCugacagcc.............................................................................. | 12 | 1 | GDM |
| ....................cugaccuCgaauugacagcc.............................................................................. | 1 | 1 | GDM |
| ....................cugaccuaGgaauugacagcc.............................................................................. | 4 | 1 | GDM |
| ....................cuAaccuaugaauugacagcc.............................................................................. | 7 | 1 | GDM |
| ....................cugaccuaugaauugGcagcc.............................................................................. | 12 | 1 | GDM |
| ....................cugaccuaugUauugacagcc.............................................................................. | 4 | 1 | GDM |
| ....................cugaccuauAaauugacagcc.............................................................................. | 9 | 1 | GDM |
| ....................cugaccuGugaauugacagcc.............................................................................. | 17 | 1 | GDM |
| ....................cugaccuaugaauugacagcA.............................................................................. | 181 | 1 | GDM |
| ....................cugaccCaugaauugacagcc.............................................................................. | 11 | 1 | GDM |
| ....................cugaccuaugaauugacagcG.............................................................................. | 3 | 1 | GDM |
| ....................cugaccuaugaauAgacagcc.............................................................................. | 5 | 1 | GDM |
| ....................cugaccuaCgaauugacagcc.............................................................................. | 11 | 1 | GDM |
| ....................cuUaccuaugaauugacagcc.............................................................................. | 1 | 1 | GDM |
| ....................cAgaccuaugaauugacagcc.............................................................................. | 7 | 1 | GDM |
| ....................cugaccuaugaaGugacagcc.............................................................................. | 2 | 1 | GDM |
| ....................cugaccuaugaauugGcagcc.............................................................................. | 12 | 1 | GDM |
| ....................cugaccuaugaauugacagcU.............................................................................. | 682 | 1 | GDM |
| ....................cugaccuaGgaauugacagcc.............................................................................. | 4 | 1 | GDM |
| ....................cugacUuaugaauugacagcc.............................................................................. | 2 | 1 | GDM |
| ....................cugaccuaugaauuAacagcc.............................................................................. | 5 | 1 | GDM |
| ....................cugGccuaugaauugacagcc.............................................................................. | 13 | 1 | GDM |
| ....................cugaccuaugaauCgacagcc.............................................................................. | 14 | 1 | GDM |
| ....................cugaccuaugaauugacUgcc.............................................................................. | 5 | 1 | GDM |
| ....................cugaccuaugGauugacagcc.............................................................................. | 14 | 1 | GDM |
| ....................cugaccuaugaauugacagUc.............................................................................. | 10 | 1 | GDM |
| ....................cugaccuaugaaAugacagcc.............................................................................. | 3 | 1 | GDM |
| ....................cugaccAaugaauugacagcc.............................................................................. | 3 | 1 | GDM |
| ....................cugaccuaugaaAugacagcU.............................................................................. | 3 | 1 | GDM |
| ....................cugaccuaugaauugacagccU.............................................................................. | 44 | 1 | GDM |
| ....................cugaccuaugaauuAacagcca.............................................................................. | 2 | 1 | GDM |
| ....................Augaccuaugaauugacagcca.............................................................................. | 4 | 1 | GDM |
| ....................cugaccuaugaauugacagcca.......................................hsa-miR-192-3p....................... | 230 | 0 | GDM |
| gccgagaccgagugcacagggc....cugaccuaugaauugacagccU...cucucgucucccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc | 44 | 1 | GDM |
| ....................cugaccuaugaauugacagccC.............................................................................. | 9 | 1 | GDM |

**hsa-miR-192-5p**

**hsa-miR-192-3p**

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

```
...........................cugaccuaugaauugaUagcca...............................................    3     1    GDM
...........................cuAaccuaugaauugacagcca...............................................    1     1    GDM
...........................cuUaccuaugaauugacagcca...............................................    1     1    GDM
...........................cugaccuaugaauugacagcUa...............................................    1     1    GDM
...........................cugaccuaugaauUagacagcca..............................................    1     1    GDM
...........................cugaccuaugaaCugacagcca...............................................    1     1    GDM
...........................cugaccuaugaauugacagccU...............................................   44     1    GDM
...........................cugaccuaugaauugacGgcca...............................................    3     1    GDM
...........................cugaccuaugaauugacagcca...............................................  230     0    GDM
...........................cugaccuaugaauugacagccC...............................................    9     1    GDM
...........................cugaccuaugaauugacagcAa...............................................    2     1    GDM
...........................cugaccuaugaauugacagccG...............................................    1     1    GDM
...........................cugGccuaugaauugacagcca...............................................    1     1    GDM
...........................cugaccuaugaauugacagcca...............................................  230     0    GDM
...........................cugaccuaugaauugacagccC...............................................    9     1    GDM
...........................cugaccuaugaauugacagccaA..............................................    7     1    GDM
...........................cugaccuaugaauugacagccag..............................................    3     0    GDM
...........................cugaccuaugaauugacagccaC..............................................   44     1    GDM
...........................cugaccuaugaauugacagccaU..............................................  511     1    GDM
...........................cugaccuaugaauugacagccaU..............................................  511     1    GDM
...........................cugaccuaugaauugacagccaA..............................................    7     1    GDM
...........................cugaccuaugaauugacagccaU..............................................  511     1    GDM
...........................cugaccuaugaauugacagccaC..............................................   44     1    GDM
...........................cugaccuaugaauugacagccaC..............................................   44     1    GDM
...........................cugaccuaugaauugacagccaA..............................................    7     1    GDM
...........................cugaccuaugaauugacagccagu.............................................    4     0    GDM
...........................cugaccuaugaauugacagccaUu.............................................   40     1    GDM
...........................cugaccuaugaauugacagccagu.............................................    4     0    GDM
...........................cugaccuaugaauugacagccaAu.............................................   10     1    GDM
...........................cugaccuaugaauugacagccaAu.............................................   10     1    GDM
...........................cugaccuaugaauugacagccagC.............................................    1     1    GDM
...........................cugaccuaugaauugacagccaUu.............................................   40     1    GDM
...........................cugaccuaugaauugacagccagu.............................................    4     0    GDM
...........................cugaccuaugaauugacagccaAu.............................................   10     1    GDM
...........................cugaccuaugaauugacagccaUu.............................................   40     1    GDM
...........................ugaccuaugaauugacag.......................................................   14     0    GDM
...........................ugaccuaugaauugacag.......................................................   14     0    GDM
...........................ugaccuaugaauugacag.......................................................   14     0    GDM
...........................ugaccuaugaGuugacagc......................................................    1     1    GDM
...........................ugaccuaugaauugacagU.......................................................   39     1    GDM
...........................ugaccuaCgaauugacagc......................................................    2     1    GDM
...........................Cgaccuaugaauugacagc......................................................    1     1    GDM
...........................ugaccuaugaauugacagU.......................................................   39     1    GDM
...........................ugaccuaCgaauugacagc......................................................    2     1    GDM
...........................ugaccuaugaauugacUgc......................................................    1     1    GDM
...........................ugaccuaugaauugacaCc......................................................    1     1    GDM
...........................ugaccuCugaauugacagc......................................................    1     1    GDM
...........................Ggaccuaugaauugacagc......................................................    1     1    GDM
...........................ugaccuaugaaCugacagc......................................................    1     1    GDM
...........................ugaccuaugaauugacagc......................................................  155     0    GDM
...........................ugaccuaugaauugacagc......................................................  155     0    GDM
...........................ugaccuaugaauugacagU.......................................................   39     1    GDM
...........................ugaccuaugaauugacagc......................................................  155     0    GDM
...........................ugaccCaugaauugacagc......................................................    1     1    GDM
...........................ugGccuaugaauugacagc......................................................    2     1    GDM
...........................ugaccuaugaauugacGgc......................................................    5     1    GDM
...........................ugGccuaugaauugacagc......................................................    2     1    GDM
...........................ugacUuaugaauugacagc......................................................    3     1    GDM
...........................ugaccuaugGauugacagc......................................................    1     1    GDM
...........................uCaccuaugaauugacagcc.....................................................    1     1    GDM
...........................ugaccuaugaauugacagcA.....................................................   46     1    GDM
...........................ugUccuaugaauugacagcc.....................................................    1     1    GDM
...........................ugGccuaugaauugacagcc.....................................................    3     1    GDM
...........................ugaccuaugaauugacGgcc.....................................................    5     1    GDM
...........................ugaccuGugaauugacagcc.....................................................    2     1    GDM
...........................ugaccuaugaauUggacagcc....................................................    1     1    GDM
...........................ugaccuaugGauugacagcc.....................................................    4     1    GDM
gccgagaccgagugcacagggcu....ugaccAaugaauugacagcc....agugcucucgucuccccucuggcugccaauuccauaggucacag......    1     1    GDM
...........................ugacAuaugaauugacagcc.....................................................    1     1    GDM
```

**hsa-miR-192-3p**

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

| Sequence | | | |
|---|---|---|---|
| ...................ugaccuaugaaCugacagcc................................................................. | 3 | 1 | GDM |
| ...................ugaccuaugaGuugacagcc................................................................. | 8 | 1 | GDM |
| ...................ugaccCaugaauugacagcc................................................................. | 4 | 1 | GDM |
| ...................ugaccuaugaauugacagUc................................................................. | 1 | 1 | GDM |
| ...................ugaccuaugaauugacagcG................................................................. | 2 | 1 | GDM |
| ...................ugaccuaugaauugacCgcc................................................................. | 1 | 1 | GDM |
| ...................ugaccuaugaauugacUgcc................................................................. | 3 | 1 | GDM |
| ...................ugaccuaugaauugacUgcc................................................................. | 3 | 1 | GDM |
| ...................ugaccuaCgaauugacagcc................................................................. | 5 | 1 | GDM |
| ...................ugaccuaugaauCgacagcc................................................................. | 5 | 1 | GDM |
| ...................Agaccuaugaauugacagcc................................................................. | 1 | 1 | GDM |
| ...................ugaccuaugaauugacagcU................................................................. | 264 | 1 | GDM |
| ...................ugaccuaugaauCgacagcc................................................................. | 5 | 1 | GDM |
| ...................ugaccuaugaauugaUagcc................................................................. | 1 | 1 | GDM |
| ...................ugaccCaugaauugacagcc................................................................. | 4 | 1 | GDM |
| ...................ugaccuaugaauugGcagcc................................................................. | 7 | 1 | GDM |
| ...................ugaccuaugaauugacGgcc................................................................. | 5 | 1 | GDM |
| ...................ugaccuauAaauugacagcc................................................................. | 3 | 1 | GDM |
| ...................ugaUcuaugaauugacagcc................................................................. | 2 | 1 | GDM |
| ...................ugacUuaugaauugacagcc................................................................. | 2 | 1 | GDM |
| ...................ugaccuaCgaauugacagcc................................................................. | 5 | 1 | GDM |
| ...................ugaccuaugGauugacagcc................................................................. | 4 | 1 | GDM |
| ...................ugaccuaugaaCugacagcc................................................................. | 3 | 1 | GDM |
| ...................ugaccuaugaauAgacagcc................................................................. | 5 | 1 | GDM |
| ...................ugaccuaugaauugacagcA................................................................. | 46 | 1 | GDM |
| ...................ugaccuaugaauAgacagcc................................................................. | 5 | 1 | GDM |
| ...................ugaccuaugaauugacagcA................................................................. | 46 | 1 | GDM |
| ...................ugaccuaugaauAgacagcc................................................................. | 5 | 1 | GDM |
| ...................ugaccuaugUauugacagcc................................................................. | 1 | 1 | GDM |
| ...................ugaccuaugaauugacagcG................................................................. | 2 | 1 | GDM |
| ...................ugaccuaGgaauugacagcc................................................................. | 1 | 1 | GDM |
| ...................ugaccuaugaauugacagcc................................................................. | 1029 | 0 | GDM |
| ...................ugaccuaugaauugGcagcc................................................................. | 7 | 1 | GDM |
| ...................Cgaccuaugaauugacagcc................................................................. | 3 | 1 | GDM |
| ...................ugGccuaugaauugacagcc................................................................. | 3 | 1 | GDM |
| ...................ugaccuaugaauugacagcU................................................................. | 264 | 1 | GDM |
| ...................ugaccuaugaauugacagcc................................................................. | 1029 | 0 | GDM |
| ...................ugaccuaugaaCugacagcc................................................................. | 3 | 1 | GDM |
| ...................ugaccCaugaauugacagcc................................................................. | 4 | 1 | GDM |
| ...................ugaccuaugaauugGcagcc................................................................. | 7 | 1 | GDM |
| ...................ugaccuaugGauugacagcc................................................................. | 4 | 1 | GDM |
| ...................ugaccuaugaGuugacagcc................................................................. | 8 | 1 | GDM |
| ...................ugaccuaugaauuAacagcc................................................................. | 2 | 1 | GDM |
| ...................Cgaccuaugaauugacagcc................................................................. | 3 | 1 | GDM |
| ...................ugaccuaugaauugacagcc................................................................. | 1029 | 0 | GDM |
| ...................ugaccuaugaauugacagcU................................................................. | 264 | 1 | GDM |
| ...................ugaccuaugaGuugacagcc................................................................. | 8 | 1 | GDM |
| ...................ugaccuaugaauugaUagcca................................................................ | 2 | 1 | GDM |
| ...................ugaccuauAaauugacagcca................................................................ | 1 | 1 | GDM |
| ...................ugaccuaugaauugacaAcca................................................................ | 1 | 1 | GDM |
| ...................ugaccuaugaauugacagccC................................................................ | 3 | 1 | GDM |
| ...................ugaccCaugaauugacagcca................................................................ | 2 | 1 | GDM |
| ...................ugaccuaugaauugacagcca................................................................ | 363 | 0 | GDM |
| ...................ugaccuaugaauugacagccG................................................................ | 4 | 1 | GDM |
| ...................ugGccuaugaauugacagcca................................................................ | 1 | 1 | GDM |
| ...................ugaccuaugaauugacagccU................................................................ | 23 | 1 | GDM |
| ...................ugaccuaugaauCgacagcca................................................................ | 1 | 1 | GDM |
| ...................ugaccuaugaauugacagcca................................................................ | 363 | 0 | GDM |
| ...................ugaccuaugaauugacagccG................................................................ | 4 | 1 | GDM |
| ...................ugaccuaugaauugacagcca................................................................ | 363 | 0 | GDM |
| ...................ugaccuaugaauugacagccU................................................................ | 23 | 1 | GDM |
| ...................ugaccuaugaauugaUagcca................................................................ | 2 | 1 | GDM |
| ...................Cgaccuaugaauugacagcca................................................................ | 5 | 1 | GDM |
| ...................ugaAcuaugaauugacagcca................................................................ | 1 | 1 | GDM |
| ...................ugaccuaugGauugacagcca................................................................ | 5 | 1 | GDM |
| ...................Cgaccuaugaauugacagcca................................................................ | 5 | 1 | GDM |
| ...................ugaccuaugaauugGcagcca................................................................ | 6 | 1 | GDM |
| gccgagaccgagugcacaggg.ugaccuaugaauugacagccC....cucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc | 3 | 1 | GDM |
| ...................Agaccuaugaauugacagcca................................................................ | 3 | 1 | GDM |

hsa-miR-192-5p

hsa-miR-192-3p

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

```
.........................ugaccuaCgaauugacagcca.......................................................   2     1   GDM
.........................ugaUcuaugaauugacagcca.......................................................   1     1   GDM
.........................ugaccuaugaauugacagccG.......................................................   4     1   GDM
.........................ugaccuaugaauugGcagcca.......................................................   6     1   GDM
.........................ugaccuaugGauugacagcca.......................................................   5     1   GDM
.........................Agaccuaugaauugacagcca.......................................................   3     1   GDM
.........................ugaccuaugaauugacagccU.......................................................  23     1   GDM
.........................ugaccuaugaauugacGgcca.......................................................   1     1   GDM
.........................ugaccuaugaauugGcagcag.......................................................   4     1   GDM
.........................ugaccuaugaGuugacagccag......................................................   3     1   GDM
.........................ugaccuaugaauugacagccaA......................................................  24     1   GDM
.........................ugaccuaugaauugacagcca.......................................................  282    0   GDM
.........................ugaccuaugUauugacagccag......................................................   1     1   GDM
.........................ugaccuaugaauugacagccaC......................................................  51     1   GDM
.........................ugaccuaugaauugacagccCg......................................................   5     1   GDM
.........................ugaccuaugaauugacagccaC......................................................  51     1   GDM
.........................ugaccuaugaauugacagccaA......................................................  24     1   GDM
.........................ugaccuaugaauugacagccaC......................................................  51     1   GDM
.........................ugaccuaugaauugacaCccag......................................................   2     1   GDM
.........................ugaccuaugaauugacagccag......................................................  282    0   GDM
.........................ugaccuaugaauugacagccCg......................................................   5     1   GDM
.........................ugaccuaugaaAugacagccag......................................................   1     1   GDM
.........................ugGccuaugaauugacagccag......................................................   1     1   GDM
.........................ugaccuaugaauugacagccag......................................................  282    0   GDM
.........................ugaccuaCgaauugacagccag......................................................   3     1   GDM
.........................ugaccuaugaauugacagccUg......................................................   1     1   GDM
.........................ugaccuaugaauugacagccaU......................................................  501    1   GDM
.........................ugaccuaugaauugaUagcag.......................................................   3     1   GDM
.........................ugaccuaugaaCugacagccag......................................................   2     1   GDM
.........................ugaccuaugaaCugacagccag......................................................   2     1   GDM
.........................ugaccuaugaauugacagccaU......................................................  501    1   GDM
.........................ugaccuaugaauugacagccGg......................................................   1     1   GDM
.........................ugaccuaugaauugacGgccag......................................................   3     1   GDM
.........................ugaccuauAaauugacagccag......................................................   1     1   GDM
.........................ugaccuaugaauugacagccaA......................................................  24     1   GDM
.........................ugaccuaugaauugUcagccag......................................................   2     1   GDM
.........................ugaccuaugaauCgacagccag......................................................   1     1   GDM
.........................ugaccuaugaauugacagccaU......................................................  501    1   GDM
.........................ugaccuaugaGuugacagccag......................................................   3     1   GDM
.........................ugaccuaugaauugacGgccag......................................................   3     1   GDM
.........................ugaccuaugaauugacGgccagu.....................................................   2     1   GDM
.........................ugaccuaugaauugGcagccagu.....................................................   3     1   GDM
.........................ugaccuaugaauugacagccagG.....................................................   4     1   GDM
.........................ugaccuaGgaauugacagccagu.....................................................   2     1   GDM
.........................ugaccuaugaauugacagccagC.....................................................  58     1   GDM
.........................ugaccuaugaauugUcagccagu.....................................................   2     1   GDM
.........................Cgaccuaugaauugacagccagu.....................................................   4     1   GDM
.........................ugaccuaugaauugacagccaAu.....................................................   7     1   GDM
.........................ugaccuaugaUuugacagccagu.....................................................   3     1   GDM
.........................ugaccuaugaauugacagccGgu.....................................................   7     1   GDM
.........................ugaccuaugGauugacagccagu.....................................................   3     1   GDM
.........................ugaccuaugaauugacagccagC.....................................................  58     1   GDM
.........................ugaccuaugaauugacagccaAu.....................................................   7     1   GDM
.........................ugGccuaugaauugacagccagu.....................................................   2     1   GDM
.........................ugaccuauAaauugacagccagu.....................................................   2     1   GDM
.........................ugaccuauAaauugacagccagu.....................................................   2     1   GDM
.........................ugaccuaugaauugacagccagu.....................................................  765    0   GDM
.........................ugaccuaugaauugacagccagA.....................................................  364    1   GDM
.........................ugaccuauUaauugacagccagu.....................................................   1     1   GDM
.........................ugaccuaugaauugacagccaCu.....................................................   2     1   GDM
.........................ugaccuaugaauugacagccCgu.....................................................   3     1   GDM
.........................ugaccuaCgaauugacagccagu.....................................................   1     1   GDM
.........................ugaccuaugaauugacagccagu.....................................................  765    0   GDM
.........................ugaccuaugaauugacagccaAu.....................................................   7     1   GDM
.........................ugaccuaugaauugacagccagA.....................................................  364    1   GDM
.........................ugaccuaugaauugacagccagG.....................................................   4     1   GDM
.........................ugaccuaAgaauugacagccagu.....................................................   3     1   GDM
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hsa-miR-192-3p

```
gccgagaccgagugcacagggcucugaccuaugaauugacagccCgu....cucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc   3     1   GDM
.........................ugGccuaugaauugacagccagu.....................................................   2     1   GDM
```

<span style="color:red">**hsa-miR-192-5p**</span>

<span style="color:red">**hsa-miR-192-3p**</span>

gccgagaccgagugcacagggcu<span style="color:red">cugaccuaugaauugacagcc</span>agugcucucgucuccccucugg<span style="color:red">cugccaauuccauaggucacag</span>guauguucgccucaaugccagc

| Sequence | Count | Mismatch | Group |
|---|---|---|---|
| ..................................ugaccuaugaUuugacagccagu.......................................................... | 3 | 1 | GDM |
| ..................................ugaccuaugaauuAacagccagu.......................................................... | 1 | 1 | GDM |
| ..................................ugaccuaugaauugacagccagA.......................................................... | 364 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaUu.......................................................... | 10 | 1 | GDM |
| ..................................ugaccuaugaauugGcagccagu.......................................................... | 3 | 1 | GDM |
| ..................................ugaccuaugaauugacagGcagu.......................................................... | 1 | 1 | GDM |
| ..................................ugaccAaugaauugacagccagu.......................................................... | 2 | 1 | GDM |
| ..................................ugaccuaugaauugacagccagC.......................................................... | 58 | 1 | GDM |
| ..................................ugaccuaugaauugacaUccagu.......................................................... | 1 | 1 | GDM |
| ..................................ugaccCaugaauugacagccagu.......................................................... | 5 | 1 | GDM |
| ..................................ugaUcuaugaauugacagccagu.......................................................... | 3 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaUu.......................................................... | 10 | 1 | GDM |
| ..................................ugaccuaAgaauugacagccagu.......................................................... | 3 | 1 | GDM |
| ..................................ugaccuaugaauugacaAccagu.......................................................... | 4 | 1 | GDM |
| ..................................ugaccCaugaauugacagccagu.......................................................... | 5 | 1 | GDM |
| ..................................ugaccuaugaauugacagccUgu.......................................................... | 2 | 1 | GDM |
| ..................................ugaccuaugaaCugacagccagu.......................................................... | 3 | 1 | GDM |
| ..................................ugaccuaugaauugacUgccagu.......................................................... | 2 | 1 | GDM |
| ..................................ugaccuaugaauugacagccUgu.......................................................... | 2 | 1 | GDM |
| ..................................ugaccuaugaauugacaAccagu.......................................................... | 4 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaUu.......................................................... | 10 | 1 | GDM |
| ..................................ugaccuaugaauCgacagccagu.......................................................... | 4 | 1 | GDM |
| ..................................ugaccuaugaauugacagccagu.......................................................... | 765 | 0 | GDM |
| ..................................ugaccuaugaauugacagccGgu.......................................................... | 7 | 1 | GDM |
| ..................................ugaccuaugaGuugacagccagu.......................................................... | 5 | 1 | GDM |
| ..................................ugaccuaugaauugacagccGgu.......................................................... | 7 | 1 | GDM |
| ..................................ugUccuaugaauugacagccagu.......................................................... | 2 | 1 | GDM |
| ..................................ugaccuaugaauugacagccagG.......................................................... | 4 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguU......................................................... | 26 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguC......................................................... | 2 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguC......................................................... | 2 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguA......................................................... | 20 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguU......................................................... | 26 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguA......................................................... | 20 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguU......................................................... | 26 | 1 | GDM |
| ..................................ugaccuaugaauugacagccagAg......................................................... | 1 | 1 | GDM |
| ..................................ugaccuaugaauugacagccaguA......................................................... | 20 | 1 | GDM |
| .........................................................agugcucucgucuccccucugg............................................. | 23 | 0 | GDM |
| .........................................................agugcucucgucuccccucugg............................................. | 23 | 0 | GDM |
| .........................................................aguAcucucgucuccccucugg............................................. | 1 | 1 | GDM |
| .........................................................agugcucucgucuccccucugU............................................. | 2 | 1 | GDM |
| .........................................................agugcucucgucuccccucugU............................................. | 2 | 1 | GDM |
| .........................................................agugcucucgucuccccucugg............................................. | 23 | 0 | GDM |
| .........................................................agugcucucgucucccAcugg............................................. | 1 | 1 | GDM |
| .........................................................agugcucucgucuccccucugA............................................. | 1 | 1 | GDM |
| .........................................................agugcucucgucuccccucuggA............................................ | 18 | 1 | GDM |
| .........................................................agugcucucgucuccccucuggA............................................ | 18 | 1 | GDM |
| .........................................................agugcucucgucuccccucuggA............................................ | 18 | 1 | GDM |
| .........................................................agugcucucgucuccccucuggU............................................ | 1 | 1 | GDM |
| .........................................................agugcucucgucuccccucuggc............................................ | 1 | 0 | GDM |
| .........................................................agugcucucgucuccccucuggcugccaauuccauaggucaca....................... | 1 | 0 | GDM |
| ...........................................................gugcucucgucuccccucug.............................................. | 2 | 0 | GDM |
| ...........................................................gugcucucgucuccccucAg.............................................. | 1 | 1 | GDM |
| ...........................................................gugcucucgucuccccucug.............................................. | 2 | 0 | GDM |
| ............................................................................cuggcugccaauuccauaggu........................... | 6 | 0 | GDM |
| ............................................................................cuggcugccaauuccauaggu........................... | 6 | 0 | GDM |
| ............................................................................cuggcugccaauuccauaggu........................... | 6 | 0 | GDM |
| .....................................................................................cugccaauuccauaggucacU.................... | 1 | 1 | GDM |
| .....................................................................................cugccaauuccauaggucacagA.................. | 1 | 1 | GDM |
| ........................................ucugaccuaugaauugacagc................................................ | 2 | 0 | Z2_ |
| ........................................ucugaccuaugaauugacagcU............................................... | 1 | 1 | Z2_ |
| ........................................Ccugaccuaugaauugacagcc............................................... | 3 | 1 | Z2_ |
| ........................................ucugaccuaugaauugacagcc............................................... | 2 | 0 | Z2_ |
| ..........................................cugacUuaugaauugaca................................................ | 1 | 1 | Z2_ |
| ..........................................cugaccuaugaauugaca................................................ | 18 | 0 | Z2_ |
| ..........................................cugaccCaugaauugaca................................................ | 1 | 1 | Z2_ |
| gccgagaccgagugcacagggcu cugaccuaugaauugacagA agugcucucgucuccccucugg cugccaauuccauaggucacag guauguucgccucaaugccagc | 2 | 1 | Z2_ |
| ..........................................cugaccuaugaauugaUagc............................................... | 6 | 1 | Z2_ |

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

```
...................................Augaccuaugaauugacagc....................................................   2    1   Z2_
...................................cugaccuaugaauugacagc....................................................   174  0   Z2_
...................................cugUccuaugaauugacagc....................................................   1    1   Z2_
...................................cugaccuaCgaauugacagc....................................................   3    1   Z2_
...................................cugaccuaugaauuUacagc....................................................   2    1   Z2_
...................................cugaccuaugaauugacagU....................................................   19   1   Z2_
...................................cugaccuaugaaAugacagc....................................................   1    1   Z2_
...................................cugGccuaugaauugacagc....................................................   2    1   Z2_
...................................cugaccuaugaauugGcagc....................................................   2    1   Z2_
...................................cugaccuaugaauugacGgc....................................................   3    1   Z2_
...................................cugaUcuaugaauugacagc....................................................   1    1   Z2_
...................................cugaccuaugaaCugacagcc...................................................   12   1   Z2_
...................................Augaccuaugaauugacagcc...................................................   17   1   Z2_
...................................cugacUuaugaauugacagcc...................................................   1    1   Z2_
...................................cugaccuaugaUuugacagcc...................................................   1    1   Z2_
...................................cugaccuaugaauAgacagcc...................................................   3    1   Z2_
...................................cugaccuaugaauugaUagcc...................................................   2    1   Z2_
...................................cugaccuaugaauugacagcc...................................................   966  0   Z2_
...................................cugGccuaugaauugacagcc...................................................   7    1   Z2_
...................................cugaccuaugaauugGcagcc...................................................   5    1   Z2_
...................................cugaccuaugaGuugacagcc...................................................   6    1   Z2_
...................................cCgaccuaugaauugacagcc...................................................   8    1   Z2_
...................................cugaccuGugaauugacagcc...................................................   5    1   Z2_
...................................cugaccuaugaauugacGgcc...................................................   6    1   Z2_
...................................cugaccuaugaauCgacagcc...................................................   3    1   Z2_
...................................cugaccuaugaauugacUgcc...................................................   1    1   Z2_
...................................cugaccuaugaauugacaUcc...................................................   1    1   Z2_
...................................cugaccuauUaauugacagcc...................................................   2    1   Z2_
...................................cugaccuaugaauugacagcG...................................................   2    1   Z2_
...................................cuAaccuaugaauugacagcc...................................................   2    1   Z2_
...................................cugaccuaugUauugacagcc...................................................   1    1   Z2_
...................................cugaccCaugaauugacagcc...................................................   2    1   Z2_
...................................cugaccuauAaauugacagcc...................................................   2    1   Z2_
...................................cugaccuaugaauuAacagcc...................................................   2    1   Z2_
...................................cugaccuaugGauugacagcc...................................................   8    1   Z2_
...................................cugCccuaugaauugacagcc...................................................   1    1   Z2_
...................................cugaccuaCgaauugacagcc...................................................   6    1   Z2_
...................................cugaccuaugaauugacagcU...................................................   248  1   Z2_
...................................cugaccuaugaauugacagcA...................................................   50   1   Z2_
...................................cugaccuaugaauugacagUc...................................................   4    1   Z2_
...................................cugacAuaugaauugacagcc...................................................   1    1   Z2_
...................................cugaccuaugaauugacaAcc...................................................   3    1   Z2_
...................................cugaccuaAgaauugacagcc...................................................   1    1   Z2_
...................................cugaccuaCgaauugacagcca..................................................   1    1   Z2_
...................................cugaccuaugaauugacagccC..................................................   5    1   Z2_
...................................cugaccuaugaauugacagcca..................................................   99   0   Z2_
...................................cugaccuaugaauCgacagcca..................................................   1    1   Z2_
...................................cugaUcuaugaauugacagcca..................................................   2    1   Z2_
...................................cugaccuaugaauugGcagcca..................................................   4    1   Z2_
...................................cugaccuaugaauugacagccU..................................................   43   1   Z2_
...................................cugaccuaugaauugacagccUa.................................................   2    1   Z2_
...................................cugaccuaugaauugacagccG..................................................   4    1   Z2_
...................................cugaccuaugaauugacGgcca..................................................   1    1   Z2_
...................................cAgaccuaugaauugacagcca..................................................   1    1   Z2_
...................................Augaccuaugaauugacagcca..................................................   2    1   Z2_
...................................cugUccuaugaauugacagcca..................................................   1    1   Z2_
...................................cugaccuaugaauugacagccag.................................................   6    0   Z2_
...................................cugaccuaugaauugacagccaA.................................................   10   1   Z2_
...................................cugaccuaugaauugacagccaU.................................................   239  1   Z2_
...................................cugaccuaugaauugacagccaC.................................................   15   1   Z2_
...................................cugaccuaugaauugacagccaCu................................................   2    1   Z2_
...................................cugaccuaugaauugacagccaAu................................................   1    1   Z2_
...................................cugaccuaugaauugacagccagC................................................   1    1   Z2_
...................................cugaccuaugaauugacagccaUu................................................   27   1   Z2_
...................................cugaccuaugaauugacagccaguU...............................................   1    1   Z2_
.....................................ugaccuaugaauugacag....................................................   3    0   Z2_
.....................................ugaccuaugaauugacagU...................................................   11   1   Z2_
.....................................ugaccuaugaGuugacagc...................................................   2    1   Z2_
.....................................ugaccuaugaauugacagc...................................................   66   0   Z2_
```

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

| | | | |
|---|---|---|---|
| ........................ugaccuaugaauCgacagc............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacCgcc.............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagcA.............................................................. | 18 | 1 | Z2_ |
| ........................ugaccuaugaauugGcagcc.............................................................. | 2 | 1 | Z2_ |
| ........................ugaccuaugaauugacGgcc.............................................................. | 3 | 1 | Z2_ |
| ........................ugaccuaugaauugacagcc.............................................................. | 362 | 0 | Z2_ |
| ........................ugaccuaugaaCugacagcc.............................................................. | 1 | 1 | Z2_ |
| ........................Cgaccuaugaauugacagcc.............................................................. | 4 | 1 | Z2_ |
| ........................Agaccuaugaauugacagcc.............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaGgaauugacagcc.............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaauCgacagcc.............................................................. | 1 | 1 | Z2_ |
| ........................ugacAuaugaauugacagcc.............................................................. | 2 | 1 | Z2_ |
| ........................ugaccuaugGauugacagcc.............................................................. | 4 | 1 | Z2_ |
| ........................ugaccuaugaauugacagcU.............................................................. | 83 | 1 | Z2_ |
| ........................ugaccCaugaauugacagcc.............................................................. | 2 | 1 | Z2_ |
| ........................uUaccuaugaauugacagcc.............................................................. | 2 | 1 | Z2_ |
| ........................ugGccuaugaauugacagcc.............................................................. | 3 | 1 | Z2_ |
| ........................ugaccuaugaGuugacagcc.............................................................. | 3 | 1 | Z2_ |
| ........................ugUccuaugaauugacagcca............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuauAaauugacagcca............................................................. | 1 | 1 | Z2_ |
| ........................Cgaccuaugaauugacagcca............................................................. | 1 | 1 | Z2_ |
| ........................ugacUuaugaauugacagcca............................................................. | 2 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccC............................................................. | 3 | 1 | Z2_ |
| ........................ugaccuaugaauugGcagcca............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagUca............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaGuugacagcca............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaauCgacagcca............................................................. | 2 | 1 | Z2_ |
| ........................ugaccuaugaauugacagcUa............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacUgcca............................................................. | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagcca............................................................. | 206 | 0 | Z2_ |
| ........................ugaccuaugaauugacagccU............................................................. | 8 | 1 | Z2_ |
| ........................ugaccuaugaaCugacagccag........................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccGg........................................................... | 3 | 1 | Z2_ |
| ........................ugaccuaugaauugGcagccag........................................................... | 3 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccaC........................................................... | 7 | 1 | Z2_ |
| ........................ugaccuauUaauugacagccag........................................................... | 1 | 1 | Z2_ |
| ........................ugacUuaugaauugacagccag........................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacGgccag........................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaaCugacagccag........................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacUgccag........................................................... | 2 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccag........................................................... | 152 | 0 | Z2_ |
| ........................ugaccCaugaauugacagccag........................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaCgaauugacagccag........................................................... | 2 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccaU........................................................... | 205 | 1 | Z2_ |
| ........................ugGccuaugaauugacagccag........................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccaA........................................................... | 19 | 1 | Z2_ |
| ........................ugaccuaugaGuugacagccagu.......................................................... | 3 | 1 | Z2_ |
| ........................ugaccuaAgaauugacagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuauAaauugacagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccagG.......................................................... | 3 | 1 | Z2_ |
| ........................ugaccCaugaauugacagccagu.......................................................... | 2 | 1 | Z2_ |
| ........................ugCccuaugaauugacagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccagC.......................................................... | 22 | 1 | Z2_ |
| ........................Cgaccuaugaauugacagccagu.......................................................... | 5 | 1 | Z2_ |
| ........................ugaccuaugaauugGcagccagu.......................................................... | 3 | 1 | Z2_ |
| ........................ugaccuaCgaauugacagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugGccuaugaauugacagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacGgccagu.......................................................... | 2 | 1 | Z2_ |
| ........................ugaccuaugaauugacagcGgu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagcUagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccagu.......................................................... | 450 | 0 | Z2_ |
| ........................ugaccAaugaauugacagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................Ggaccuaugaauugacagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuGugaauugacagccagu.......................................................... | 2 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccaUu.......................................................... | 21 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccagA.......................................................... | 180 | 1 | Z2_ |
| ........................ugaccuaugaaCugacagccagu.......................................................... | 3 | 1 | Z2_ |

gccgagaccgagugcacagggcucugaccuaugaauugacagccaAu...cgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc   7   1   Z2_

| | | | |
|---|---|---|---|
| ........................ugaccuaugGauugacagccagu.......................................................... | 1 | 1 | Z2_ |

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gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

| | | | |
|---|---|---|---|
| ........................ugaccuaugaauugaUagccagu.......................................................... | 1 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccaguA......................................................... | 12 | 1 | Z2_ |
| ........................ugaccuaugaauugacagccaguU......................................................... | 15 | 1 | Z2_ |
| .......................................agugcucucgucuccccucugA............................................ | 4 | 1 | Z2_ |
| .......................................agugcucucgucuccccucugg............................................ | 5 | 0 | Z2_ |
| .......................................agugcucucgucuccccucuggA........................................... | 10 | 1 | Z2_ |
| .......................................agugcucucgucuccccucuggcugccaauuccauaggucaca...................... | 1 | 0 | Z2_ |
| .....................................................cuggcugccaauuccauaggu............................. | 4 | 0 | Z2_ |
| | | | |
| ....................ucugaccuaugaauugacagcU............................................................... | 2 | 1 | Z3_ |
| ....................Ccugaccuaugaauugacagcc............................................................... | 2 | 1 | Z3_ |
| ....................cugaccuaugaauugaca.................................................................... | 8 | 0 | Z3_ |
| ....................cGgaccuaugaauugacagc................................................................. | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacagU................................................................. | 20 | 1 | Z3_ |
| ....................cugGccuaugaauugacagc................................................................. | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacGgc................................................................. | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacagc................................................................. | 84 | 0 | Z3_ |
| ....................cugaccuaugGauugacagc................................................................. | 2 | 1 | Z3_ |
| ....................Augaccuaugaauugacagc................................................................. | 2 | 1 | Z3_ |
| ....................cugaccuaugaauugaUagc................................................................. | 1 | 1 | Z3_ |
| ....................cugaccCaugaauugacagc................................................................. | 1 | 1 | Z3_ |
| ....................cugaccuUugaauugacagcc................................................................ | 2 | 1 | Z3_ |
| ....................cugaccuGugaauugacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacaCcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacagcU................................................................ | 148 | 1 | Z3_ |
| ....................cugaccuaugaauugacUgcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaUcuaugaauugacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugGccuaugaauugacagcc................................................................ | 5 | 1 | Z3_ |
| ....................cugaccCaugaauugacagcc................................................................ | 3 | 1 | Z3_ |
| ....................cugaccuaugaauugGcagcc................................................................ | 4 | 1 | Z3_ |
| ....................cugaccuaugGauugacagcc................................................................ | 2 | 1 | Z3_ |
| ....................cGgaccuaugaauugacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuaAgaauugacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuaugaGuugacagcc................................................................ | 3 | 1 | Z3_ |
| ....................cugaccuaugaauugacGgcc................................................................ | 4 | 1 | Z3_ |
| ....................cugaccuaugaauugacagcA................................................................ | 33 | 1 | Z3_ |
| ....................cugaccuaugUauugacagcc................................................................ | 3 | 1 | Z3_ |
| ....................cugaccuaCgaauugacagcc................................................................ | 2 | 1 | Z3_ |
| ....................cugaccuaugaaCugacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuaugaauuUacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacagcc................................................................ | 411 | 0 | Z3_ |
| ....................cugaGcuaugaauugacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuauAaauugacagcc................................................................ | 1 | 1 | Z3_ |
| ....................Augaccuaugaauugacagcc................................................................ | 5 | 1 | Z3_ |
| ....................cAgaccuaugaauugacagcc................................................................ | 4 | 1 | Z3_ |
| ....................cugaccuaugaauugacagUc................................................................ | 3 | 1 | Z3_ |
| ....................cCgaccuaugaauugacagcc................................................................ | 3 | 1 | Z3_ |
| ....................cugaccuaugaauuAacagcc................................................................ | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccU............................................................... | 13 | 1 | Z3_ |
| ....................Augaccuaugaauugacagcca............................................................... | 2 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccC............................................................... | 1 | 1 | Z3_ |
| ....................cugaccuUugaauugacagcca............................................................... | 2 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccG............................................................... | 1 | 1 | Z3_ |
| ....................cugGccuaugaauugacagcca............................................................... | 1 | 1 | Z3_ |
| ....................cugaccuaugaauugacagcca............................................................... | 38 | 0 | Z3_ |
| ....................cugaccuaugaauugacagccag.............................................................. | 1 | 0 | Z3_ |
| ....................cugaccuaugaauugacagccaC.............................................................. | 7 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccaU.............................................................. | 107 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccaA.............................................................. | 5 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccaUu............................................................. | 15 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccagG............................................................. | 2 | 1 | Z3_ |
| ....................cugaccuaugaauugacagccagu............................................................. | 3 | 0 | Z3_ |
| ....................cugaccuaugaauugacagccaguU............................................................ | 3 | 1 | Z3_ |
| .....................ugaccuaugaauugacagU................................................................. | 6 | 1 | Z3_ |
| .....................ugaccuaugaauugacagc................................................................. | 15 | 0 | Z3_ |
| .....................ugaccuaugaauugacagcU................................................................ | 44 | 1 | Z3_ |
| .....................ugaccuaugaauCgacagcc................................................................ | 2 | 1 | Z3_ |
| .....................ugaccuaugaauugGcagcc................................................................ | 3 | 1 | Z3_ |
| .....................ugaccuaugaauugacUgcc................................................................ | 1 | 1 | Z3_ |

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                                                              hsa-miR-192-3p

gccgagaccgagugcacagggcucugaccuaugaauugacagccagugcucucgucuccccucuggcugccaauuccauaggucacagguauguucgccucaaugccagc

```
.......................ugaccuaugaauugacagcA.......................................................  6    1   Z3_
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.......................ugaccuaugaaCugacagcc.......................................................  3    1   Z3_
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