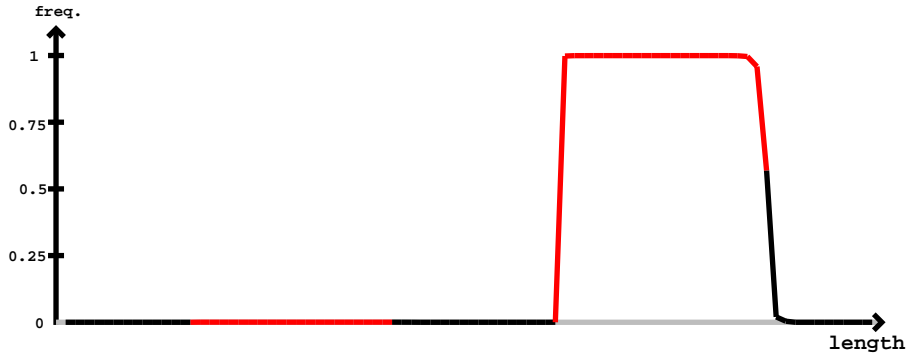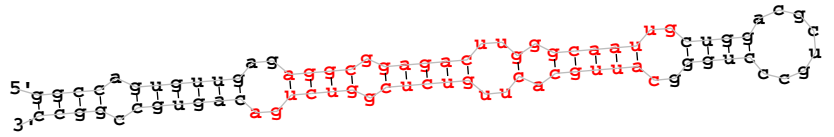miRBase precursor   : hsa-mir-25
Total read count   : 578916
hsa-miR-25-5p read count : 242
hsa-miR-25-3p read count : 578670
remaining reads   : 4

```
                                                            a g                         u u g g c a a u        u g   c u u   a c g
                                                          ag    aggc ggagac    ug ggcaau    ug   cu g   u c
5' ggcc        a g u g u u u g                                                                           c g u c   C  u
   ::::        : : : : : : : :                                                                                    C     u
3' ccgg        c c g u g a c                              ag    ucugg gcucug    uu   acguua    C    g u  a   c g  g g   c
              a g              c                                                                         u c     c g
```

```
freq.

1   ┤         ┌────────┐
                        │
0.75┤

0.5 ┤

0.25┤

0   ┤────────────────────────────────────────────►
                                          length
```

                                          hsa-miR-25-3p

                      hsa-miR-25-5p

```
5'- ggccaguguuugagaggcggagacuugggcaauugcuggacgcugcccgggcauugcacuugucucggucugacagugccggcc  -3'   exp
    (((((.((((((((..(((((.(((((((..(.(((((((..(((((........))))..))))).).)..))))).)))).)))))).))))  reads   mm      sample
    ............aggcggagacuugggcaau.............................................................  2       0       GDM
    ............aggcggagacuugggcaau.............................................................  2       0       GDM
    ............aggcggagacuugggcaauu............................................................  6       0       GDM
    ............aggcggagacuugggcaauu............................................................  6       0       GDM
    ............aggcggagacuugggcaauug...........................................................  19      0       GDM
    ............aggcggagacuugggcaauug...........................................................  19      0       GDM
    ............aggcggagacuugggcaauug...........................................................  19      0       GDM
    ............Uggcggagacuugggcaauug...........................................................  1       1       GDM
    ............aggcggagacuugggcaauuU...........................................................  5       1       GDM
    ............aggcggagacuugggcaauugA..........................................................  9       1       GDM
    ............aggcggagacuugggcaauugc..........................................................  2       0       GDM
    ............aggcggagacuugggcaauugA..........................................................  9       1       GDM
    ............aggcggagacuugggcaauugU..........................................................  1       1       GDM
    ............aggcggagacuugggcaauugcA.........................................................  3       1       GDM
    ............aggcggagGcuugggcaauugcu.........................................................  2       1       GDM
    ............aggcggagacuugggcaauugcC.........................................................  5       1       GDM
    ............aggcggagacuugggcaauugcu.........................................................  32      0       GDM
    ............aggcggagacuugggcaauugcC.........................................................  5       1       GDM
    ............aggcggagacuuAggcaauugcu.........................................................  2       1       GDM
    ............aggcggagacuugggcaauugcu.........................................................  32      0       GDM
    ............aggcggagacuugggcaauugcu.........................................................  32      0       GDM
    ............aggcggagacuugggcaauugcC.........................................................  5       1       GDM
    ............aggcggagacuugggcaauugcAg........................................................  1       1       GDM
    .....................................Cgggcauugcacuugucucggucuga...........................  3       1       GDM
    .....................................Acauugcacuugucucggu..................................  1       1       GDM
    .....................................Ccauugcacuugucucggucu................................  1       1       GDM
    .....................................Ucauugcacuugucucggucu................................  1       1       GDM
    .....................................Acauugcacuugucucggucu................................  1       1       GDM
    .....................................Ccauugcacuugucucggucug...............................  4       1       GDM
    .....................................Ucauugcacuugucucggucug...............................  1       1       GDM
    .....................................Ccauugcacuugucucggucuga..............................  12      1       GDM
    .....................................Ccauugcacuugucucggucuga..............................  12      1       GDM
    .....................................Ccauugcacuugucucggucuga..............................  12      1       GDM
    .....................................gcauugcacuugucucggucuga..............................  1       0       GDM
```

hsa-miR-25-3p

hsa-miR-25-5p

ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccugggcauugcacuugucucggucugacagugccggcc

```
...................................................gcauugcacuugucucgguUuga...........      1      1    GDM
...................................................Acauugcacuugucucggucuga...........      1      1    GDM
...................................................gcauugcacuugucucggucugaA..........      1      1    GDM
...................................................cGuugcacuugucucggu...............      3      1    GDM
...................................................cauugcacuugucucggA...............      2      1    GDM
...................................................cauugcacuugAcucggu...............      1      1    GDM
...................................................cauugcacuugucucggG...............      1      1    GDM
...................................................caCugcacuugucucggu...............      1      1    GDM
...................................................cauugcacuugucucggC...............     12      1    GDM
...................................................cauugcacuCgucucggu...............      1      1    GDM
...................................................cauCgcacuugucucggu...............      4      1    GDM
...................................................cauugcacuugucucggu...............    194      0    GDM
...................................................cauCgcacuugucucggu...............      4      1    GDM
...................................................cauugcacuAgucucggu...............      1      1    GDM
...................................................cauugcacuuguUucggu...............      3      1    GDM
...................................................Uauugcacuugucucggu...............      4      1    GDM
...................................................cauugcacuugucuUggu...............      1      1    GDM
...................................................cauugcacuugucucggA...............      2      1    GDM
...................................................Uauugcacuugucucggu...............      4      1    GDM
...................................................cauugcacuugucucggC...............     12      1    GDM
...................................................cauugcacuugucucggC...............     12      1    GDM
...................................................cauugcacuugucucggu...............    194      0    GDM
...................................................cauugcacuugucucggu...............    194      0    GDM
...................................................cauAgcacuugucucggu...............      1      1    GDM
...................................................cauugcacuugucucgguA..............     36      1    GDM
...................................................cauugcGcuugucucggguc.............      2      1    GDM
...................................................cauugcacuCgcucucggguc.............      4      1    GDM
...................................................cauugcaUuugucucggguc.............      3      1    GDM
...................................................cGuugcacuugucucggguc.............      1      1    GDM
...................................................cauugcaUuugucucggguc.............      3      1    GDM
...................................................cauugcacuugucucCguc.............      1      1    GDM
...................................................cauugcacuuAucucggguc.............      1      1    GDM
...................................................cauugcacuugCcucggguc.............      4      1    GDM
...................................................cauugcacuugCcucggguc.............      4      1    GDM
...................................................cauugcacuugucucggguc.............    674      0    GDM
...................................................cauugcacuugucucggCc.............      4      1    GDM
...................................................cauugcacuugucucgguU.............     87      1    GDM
...................................................cauCgcacuugucucggguc.............      4      1    GDM
...................................................cauugcacuCgucucggguc.............      4      1    GDM
...................................................cauCgcacuugucucggguc.............      4      1    GDM
...................................................cauugcacuugucucgguU.............     87      1    GDM
...................................................cauugcacuugucCgguc.............      3      1    GDM
...................................................cauugcacCgucucggguc.............      5      1    GDM
...................................................cauugcaAuugucucggguc.............      1      1    GDM
...................................................cauugcacuugucucggguc.............    674      0    GDM
...................................................cauugcacuugucucgguU.............     87      1    GDM
...................................................cauugcacCgucucggguc.............      5      1    GDM
...................................................cauugAacuugucucggguc.............      1      1    GDM
...................................................cUuugcacuugucucggguc.............      1      1    GDM
...................................................cauugcacuugucucgguA.............     36      1    GDM
...................................................cauugcacuuguUucggguc.............      1      1    GDM
...................................................cauugUacuugucucggguc.............      1      1    GDM
...................................................cauugcacuugucucggguc.............    674      0    GDM
...................................................cauCgcacuugucucggguc.............      4      1    GDM
...................................................cauugcacuugucucggCc.............      4      1    GDM
...................................................cauugcacuugucAcgguc.............      2      1    GDM
...................................................Uauugcacuugucucgguc.............      2      1    GDM
...................................................cauugcacuugucucgguA.............     36      1    GDM
...................................................cauugcacuugucAcgguc.............      2      1    GDM
...................................................cauugcacuugucucgAuc.............      2      1    GDM
...................................................cauugcacuugucCcgguc.............      3      1    GDM
...................................................caCugcacuugucucggguc.............      2      1    GDM
...................................................cauAgcacuugucucggguc.............      4      1    GDM
...................................................cauugcacuGgucucggucu............      5      1    GDM
...................................................cauugcacuCgucucggucu............     74      1    GDM
...................................................cauugcacCgucucggucu............     56      1    GDM
...................................................cauugcacuugucuUggucu............     20      1    GDM
ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccuggg.cauugcacuuAucucggucu...........     17      1    GDM
...................................................cauugcacuugucucggucu...........  10607      0    GDM
```

ggccaguguugag**aggcggagacuugggcaauug**cuggacgcugcccuggg**cauugcacuugucucggucuga**cagugccggcc

```
.......................................................cGuugcacuugucucggucu.............    28    1    GDM
.......................................................cauugcGcuugucucggucu.............    64    1    GDM
.......................................................cauugcacuugucucUgucu.............    7     1    GDM
.......................................................cauugcacAugucucggucu.............    14    1    GDM
.......................................................cauugcGcuugucucggucu.............    64    1    GDM
.......................................................cauugcacuugCcucggucu.............    59    1    GDM
.......................................................cauugcacuuguAucggucu.............    5     1    GDM
.......................................................cauugcacuugucucggucC.............    972   1    GDM
.......................................................cauugcacuAgucucggucu.............    22    1    GDM
.......................................................cauugcacuugucucggucA.............    512   1    GDM
.......................................................cauugcacuugucucggAcu.............    5     1    GDM
.......................................................cauugcacuugucCcggucu.............    57    1    GDM
.......................................................caAugcacuugucucggucu.............    1     1    GDM
.......................................................caCugcacuugucucggucu.............    54    1    GDM
.......................................................cauugcacuugucucggucC.............    972   1    GDM
.......................................................Uauugcacuugucucggucu.............    43    1    GDM
.......................................................caCugcacuugucucggucu.............    54    1    GDM
.......................................................Gauugcacuugucucggucu.............    5     1    GDM
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.......................................................cauugcacuugAcucggucu.............    17    1    GDM
.......................................................cauuCcacuugucucggucu.............    8     1    GDM
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.......................................................cauugGacuugucucggucu.............    3     1    GDM
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.......................................................cauugcacuugucucggCcu.............    60    1    GDM
.......................................................cauugcacuugucucgguUu.............    18    1    GDM
.......................................................cauugcacuugucucggAcu.............    5     1    GDM
.......................................................cauCgcacuugucucggucu.............    55    1    GDM
.......................................................cauugcCcuugucucggucu.............    11    1    GDM
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.......................................................cauugcCcuugucucggucu.............    11    1    GDM
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.......................................................cauugcaUuugucucggucu.............    12    1    GDM
.......................................................cauugcacuugucuAggucu.............    5     1    GDM
.......................................................cauugcacuugucGcggucu.............    4     1    GDM
.......................................................cauugcacuugCcucggucu.............    59    1    GDM
.......................................................cauugcacuugucucggucG.............    89    1    GDM
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.......................................................cauCgcacuugucucggucu.............    55    1    GDM
.......................................................cauugcacuugucucggAcu.............    5     1    GDM
.......................................................cauugcacuugucucggCcu.............    60    1    GDM
.......................................................cauugcacuugucucgAucu.............    8     1    GDM
.......................................................cauugcacuugGcucggucu.............    1     1    GDM
.......................................................cauCgcacuugucucggucu.............    55    1    GDM
.......................................................caGugcacuugucucggucu.............    5     1    GDM
.......................................................cauugcacuugucucgAucu.............    8     1    GDM
.......................................................cauugcacuuguAucggucu.............    5     1    GDM
.......................................................cauugcaUuugucucggucu.............    12    1    GDM
.......................................................cauuAcacuugucucggucu.............    21    1    GDM
.......................................................cauugcacuuguUucggucu.............    8     1    GDM
.......................................................cauugcacuugucucggGcu.............    1     1    GDM
.......................................................cauugcacuugucucggucC.............    972   1    GDM
.......................................................cauugcacuugucucgguAu.............    6     1    GDM
.......................................................cauuCcacuugucucggucu.............    8     1    GDM
.......................................................cauugcacuugucucUgucu.............    7     1    GDM
.......................................................cUuugcacuugucucggucu.............    7     1    GDM
.......................................................cauAgcacuugucucggucu.............    12    1    GDM
.......................................................cauugcacuugucCcggucu.............    57    1    GDM
.......................................................cauugAacuugucucggucu.............    2     1    GDM
.......................................................cauugcacuGgucucggucu.............    5     1    GDM
.......................................................cauugcacuugAcucggucu.............    17    1    GDM
.......................................................cauugcacuuguAucggucu.............    5     1    GDM
.......................................................Uauugcacuugucucggucu.............    43    1    GDM
.......................................................cauugcacuugucucggCcu.............    60    1    GDM
.......................................................cauugcacuugucucggucG.............    89    1    GDM
.......................................................cauugcacuugucucgguGu.............    1     1    GDM
ggccaguguugag**aggcggagacuugggcaauug**cuggacgcugcccuggg....cauugcacuugucucAgucu.............    22    1    GDM
.......................................................cauugcacuuguUucggucu.............    8     1    GDM
```

hsa-miR-25-5p

ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccugggcauugcacuugucucggucugacagugccggcc

```
.............................................................cauugcacuGgucucggucu............  5      1    GDM
.............................................................cauAgcacuugucucggucu............  12     1    GDM
.............................................................cauuAcacuugucucggucu............  21     1    GDM
.............................................................cauugcacAugucucggucu............  14     1    GDM
.............................................................cauugcacuugucuAggucu............  5      1    GDM
.............................................................cauugcacAugucucggucu............  14     1    GDM
.............................................................cauugUacuugucucggucu............  28     1    GDM
.............................................................Aauugcacuugucucggucu............  6      1    GDM
.............................................................cauugcacuAgucucggucu............  22     1    GDM
.............................................................cauugcacuugucucggucu............  10607  0    GDM
.............................................................cauugcacuugucGcggucu............  4      1    GDM
.............................................................cauugcaUuugucucggucu............  12     1    GDM
.............................................................cauugcacuugucucgguAu............  6      1    GDM
.............................................................Uauugcacuugucucggucu............  43     1    GDM
.............................................................cauugcGcuugucucggucu............  64     1    GDM
.............................................................cauugcacuugCcucggucu............  59     1    GDM
.............................................................cauugcacuugucucAgucu............  22     1    GDM
.............................................................cauugcacuugucucgguUu............  18     1    GDM
.............................................................cCuugcacuugucucggucu............  6      1    GDM
.............................................................cauugcacuuUucucggucu............  2      1    GDM
.............................................................cauugcacuugucuUggucu............  20     1    GDM
.............................................................cauugcacuugucCcggucu............  57     1    GDM
.............................................................cauugcacGugucucggucu............  4      1    GDM
.............................................................cauugcUcuugucucggucu............  16     1    GDM
.............................................................cauugcacGugucucggucu............  4      1    GDM
.............................................................cGuugcacuugucucggucu............  28     1    GDM
.............................................................cauugcacuAgucucggucu............  22     1    GDM
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.............................................................cauugcaGuugucucggucu............  2      1    GDM
.............................................................cauugcacuugucuUggucu............  20     1    GDM
.............................................................cauugcacuuAucucggucu............  17     1    GDM
.............................................................cauugcacuugucucggucu............  10607  0    GDM
.............................................................cCuugcacuugucucggucu............  6      1    GDM
.............................................................cUuugcacuugucucggucu............  7      1    GDM
.............................................................cauugGacuugucucggucu............  3      1    GDM
.............................................................cauugUacuugucucggucu............  28     1    GDM
.............................................................cauugAacuugucucggucu............  2      1    GDM
.............................................................caCugcacuugucucggucu............  54     1    GDM
.............................................................cauugcacCugucucggucu............  56     1    GDM
.............................................................cauugcacuugucucgAucu............  8      1    GDM
.............................................................Gauugcacuugucucggucu............  5      1    GDM
.............................................................cauugcacuugucucgguUu............  18     1    GDM
.............................................................cauAgcacuugucucggucu............  12     1    GDM
.............................................................cauugcacuCgucucggucu............  74     1    GDM
.............................................................cauugcacuugucucggucA............  512    1    GDM
.............................................................cauugcacuuAucucggucu............  17     1    GDM
.............................................................cauugcacuugucucggucA............  512    1    GDM
.............................................................cUuugcacuugucucggucu............  7      1    GDM
.............................................................caGugcacuugucucggucu............  5      1    GDM
.............................................................cauuAcacuugucucggucu............  21     1    GDM
.............................................................Aauugcacuugucucggucu............  6      1    GDM
.............................................................cauugcacGugucucggucu............  4      1    GDM
.............................................................cGuugcacuugucucggucu............  28     1    GDM
.............................................................cauugcUcuugucucggucu............  16     1    GDM
.............................................................cauugcacuugucucAgucu............  22     1    GDM
.............................................................Aauugcacuugucucggucu............  6      1    GDM
.............................................................cCuugcacuugucucggucu............  6      1    GDM
.............................................................cauugcacuugucucggucG............  89     1    GDM
.............................................................cauugcacuugucAcggucu............  13     1    GDM
.............................................................cauugcUcuugucucggucu............  16     1    GDM
.............................................................cauugcacuuguGucggucug............ 1      1    GDM
.............................................................cauugcacuugucucggGcug............ 8      1    GDM
.............................................................cauugcacuugucucgUucug............ 7      1    GDM
.............................................................cauCgcacuugucucggucug............ 624    1    GDM
.............................................................cauugcCuugucucggucug............ 26     1    GDM
.............................................................cauugcacGugucucggucug............ 17     1    GDM
.............................................................cGuugcacuugucucggucug............ 367    1    GDM
ggccaguguugagaggcggagacuugggcaauug..........................Uauugcacuugucucggucug............ 317    1    GDM
.............................................................cauugcacuugucucgAucug............ 130    1    GDM
```

ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccugggcauugcacuugucucggucgacagugccggcc

```
.............................................cauugcacuugucucggucuA............     5500    1    GDM
.............................................cauugcacuugucucggucGg............     3534    1    GDM
.............................................cauugcacuugucuAggucug............       42    1    GDM
.............................................cauugcacuugucCcggucug............      487    1    GDM
.............................................cGuugcacuugucucggucug............      367    1    GDM
.............................................cauugcacuCgucucggucug............      605    1    GDM
.............................................cauuCcacuugucucggucug............       26    1    GDM
.............................................cauugcacuugucucggAcug............       42    1    GDM
.............................................cauugUacuugucucggucug............      163    1    GDM
.............................................cauCgcacuugucucggucug............      624    1    GDM
.............................................cauugcacuugucucggCcug............      420    1    GDM
.............................................cauugcacuugucucggucuC............      232    1    GDM
.............................................cauugcacuugucucAgucug............      231    1    GDM
.............................................cauugcacuugucGcggucug............       19    1    GDM
.............................................cauuUcacuugucucggucug............       26    1    GDM
.............................................cauAgcacuugucucggucug............      164    1    GDM
.............................................cauugcacuuCucucggucug............        8    1    GDM
.............................................caAugcacuugucucggucug............       53    1    GDM
.............................................cauugcacuugucucggGcug............        8    1    GDM
.............................................cauugcacuugucucgguCg............      715    1    GDM
.............................................Gauugcacuugucucggucug............       26    1    GDM
.............................................cauugcacuugucAcggucug............      150    1    GDM
.............................................cauugcacuugucuUggucug............      200    1    GDM
.............................................caGugcacuugucucggucug............       19    1    GDM
.............................................caGugcacuugucucggucug............       19    1    GDM
.............................................cGuugcacuugucucggucug............      367    1    GDM
.............................................cauugcacuugucucggAcug............       42    1    GDM
.............................................cauugcacuugucuUggucug............      200    1    GDM
.............................................cauugcacuugucucggCcug............      420    1    GDM
.............................................cauugcUcuugucucggucug............      111    1    GDM
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.............................................cauugcacuugucuUggucug............      200    1    GDM
.............................................cCuugcacuugucucggucug............       15    1    GDM
.............................................cauugcacuugucucggucug............    98415    0    GDM
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....cauugcacuugCcucggucug............	618	1	GDM
....Aauugcacuugucucggucug............	66	1	GDM
....cauugcacuugucucgguAug............	27	1	GDM
....cauugcacuugucucgAucug............	130	1	GDM
....cauugcacuugucCcggucug............	487	1	GDM
....cauugcacuuCucucggucug............	8	1	GDM
....Aauugcacuugucucggucug............	66	1	GDM
....cauugcacuugucucggucAg............	111	1	GDM
....cauugcacuugucCcggucug............	487	1	GDM
....cauugcacAugucucggucug............	101	1	GDM
....cauugcacuugucucggucuA............	5500	1	GDM
....cauugcCcuugucucggucug............	26	1	GDM
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....cauAgcacuugucucggucug............	164	1	GDM
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....cauugcacuugucucgguAug............	27	1	GDM
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....cauGgcacuugucucggucug............	26	1	GDM
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....cCuugcacuugucucggucug............	15	1	GDM
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....cauugcacuugucucAgucug............	231	1	GDM
....Aauugcacuugucucggucug............	66	1	GDM
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....cauugcaGuugucucggucug............	3	1	GDM

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...........................................cauugcacuugucucgCucug............    11       1    GDM
...........................................cauugcGuugucucggucug............     509      1    GDM
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...........................................cauugcacuugCcucggucug............    618      1    GDM
...........................................cauugcacAugucucggucug............    101      1    GDM
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hsa-miR-25-5p

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....cauugcacuugucucUgucuga...........	106	1	GDM
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....cauugcacuugucucggucuga...........	124983	0	GDM
....cauugcacuuUucucggucuga...........	14	1	GDM
....cauugcacuCgucucggucuga...........	851	1	GDM
....cauugcacuugucuAggucuga...........	53	1	GDM
....cauugcacAugucucggucuga...........	114	1	GDM
....cauugcacuugucucggucGga...........	22	1	GDM
....cauugcacuugucucUgucuga...........	106	1	GDM
....cauugcacuuCucucggucuga...........	10	1	GDM
....cauugcacuugucucggucGga...........	22	1	GDM
....cauuCcacuugucucggucuga...........	52	1	GDM
ggccaguguugagaggcggagacuugggcaauugcuggacgcugccc....cauugcacuugucucggucuCa...........	14	1	GDM
....cauugcacuugucucgguAuga...........	34	1	GDM

hsa-miR-25-3p

hsa-miR-25-5p

ggccaguguugag aggcggagacuugggcaauug cuggacgcugcccuggg cauugcacuugucucggucuga cagugccggcc

```
...............................................................cauugcacuugucuGggucuga...........      5       1    GDM
...............................................................Uauugcacuugucucggucuga...........      382     1    GDM
...............................................................cauugcacuugucucggucugU...........      10841   1    GDM
...............................................................cauugcacuAgucucggucuga...........      208     1    GDM
...............................................................cauugcacuugucucgguAuga...........      34      1    GDM
...............................................................cauugcacGugucucggucuga...........      36      1    GDM
...............................................................cauugcacuugucuAggucuga...........      53      1    GDM
...............................................................cauugAacuugucucggucuga...........      38      1    GDM
...............................................................cauugcacCugucucggucuga...........      548     1    GDM
...............................................................cauugcacuugucucggucuCa...........      14      1    GDM
...............................................................cUuugcacuugucucggucuga...........      123     1    GDM
...............................................................cauugcacuugucucCgucuga...........      27      1    GDM
...............................................................cCuugcacuugucucggucuga...........      21      1    GDM
...............................................................cauugcacuugGcucggucuga...........      18      1    GDM
...............................................................cauugcacuugGcucggucuga...........      18      1    GDM
...............................................................Uauugcacuugucucggucuga...........      382     1    GDM
...............................................................cauugcacuugucucggucuAa...........      92      1    GDM
...............................................................cGuugcacuugucucggucuga...........      416     1    GDM
...............................................................cauugcCuugucucggucuga...........       66      1    GDM
...............................................................cauugcacuugucAcggucuga...........      168     1    GDM
...............................................................cauugcCuugucucggucuga...........       66      1    GDM
...............................................................cauuUcacuugucucggucuga...........      34      1    GDM
...............................................................cauugcacuugucuAggucuga...........      53      1    GDM
...............................................................cauugcacuugucucgguUuga...........      261     1    GDM
...............................................................cauugcacuugucucgAucuga...........      140     1    GDM
...............................................................cauugcacuGgucucggucuga...........      56      1    GDM
...............................................................caGugcacuugucucggucuga...........      38      1    GDM
...............................................................cauugcacuuCucucggucuga...........      10      1    GDM
...............................................................cauugcacuugucucggucugaU..........      653     1    GDM
...............................................................cauugcacuugucucggucugaG..........      465     1    GDM
...............................................................cauugcacuugucucggucugaG..........      465     1    GDM
...............................................................cauugcacuugGcucggucugac..........      1       1    GDM
...............................................................cauugcacuugucucggucugac..........      60      0    GDM
...............................................................cauugcacuugucucggucugaU..........      653     1    GDM
...............................................................cauugcacCugucucggucugac..........      2       1    GDM
...............................................................cauugcacuugucucggucugCc..........      1       1    GDM
...............................................................cauugcacuugucucggucugUc..........      15      1    GDM
...............................................................cauugcacuugucucggucugUc..........      15      1    GDM
...............................................................cauugcacuugucucggucugac..........      60      0    GDM
...............................................................cauugcacuugucucggucuAac..........      1       1    GDM
...............................................................cauugcacuugucucggucugaU..........      653     1    GDM
...............................................................cauugcacuugucucggucugaG..........      465     1    GDM
...............................................................cauugcacuugucucgguUugac..........      1       1    GDM
...............................................................cauugcacuugucucggucugaA..........      2817    1    GDM
...............................................................cauugcacuugucucggucugaA..........      2817    1    GDM
...............................................................cauugcacuugucucggucugaA..........      2817    1    GDM
...............................................................cauugcacuugucucggucugac..........      60      0    GDM
...............................................................cauugcacuugucuUggucugac..........      1       1    GDM
...............................................................cauugcacuugucucggucugUc..........      15      1    GDM
...............................................................cauugcacuugucucggucugaca.........      67      0    GDM
...............................................................cauugcacuugucucggucugacU.........      1       1    GDM
...............................................................cauugcGcuugucucggucugaca.........      1       1    GDM
...............................................................cauugcacuugucucggucugaUa.........      38      1    GDM
...............................................................cauugcacuugucucggucugaca.........      67      0    GDM
...............................................................cauugcacuugucucggucugacG.........      5       1    GDM
...............................................................cauugcacuugucucggCcugaca.........      1       1    GDM
...............................................................cauugcacuugucucggucugaUa.........      38      1    GDM
...............................................................cauugcacuugucucggucugaUa.........      38      1    GDM
...............................................................cauugcacuugucucggucugacG.........      5       1    GDM
...............................................................cauugcacuugucucggucugaca.........      67      0    GDM
...............................................................cauugcacuugucucggucugaGa.........      31      1    GDM
...............................................................cauugcacuugucucggucugaAa.........      688     1    GDM
...............................................................cauugcacuugucucggucugaAa.........      688     1    GDM
...............................................................cauugcacuugucucAgucugaca.........      2       1    GDM
...............................................................cauugcacuugucucggAcugaca.........      1       1    GDM
...............................................................cauugcacuugucucggucugaAa.........      688     1    GDM
...............................................................cauugcacuugucucggucugacG.........      5       1    GDM
ggccaguguugagaggcggagacuugggcaauug....................cauugcacuugucucggucugaGa.........      31      1    GDM
...............................................................cauugcacuugucucggucugaGa.........      31      1    GDM
```

ggccaguuugag**aggcggagacuugggcaauug**cuggacgcugcccgggg**cauugcacuugucucggucuga**cagugccggcc

Sequence			
....cauugcacuugucAcggucugaca.........	1	1	GDM
....cauugcacuugucuUggucugaca.........	2	1	GDM
....auugcacuugucucgguc.............	1	0	GDM
....auugcacuugucucggucu............	10	0	GDM
....auugcacuugucucggucA............	1	1	GDM
....auugcacuAgucucggucu............	1	1	GDM
....Cuugcacuugucucggucu............	1	1	GDM
....auugcacuugucucggucC............	1	1	GDM
....auugcacuugucucggucu............	10	0	GDM
....auugcacuugucucggucu............	10	0	GDM
....aCugcacuugucucggucug...........	2	1	GDM
....auugcacuugucucgguUug...........	1	1	GDM
....auugcacuugucucggucAg...........	1	1	GDM
....aCugcacuugucucggucug...........	2	1	GDM
....auugcacuugucucggucug...........	161	0	GDM
....Cuugcacuugucucggucug...........	18	1	GDM
....auugcacuugucucggucCg...........	1	1	GDM
....Cuugcacuugucucggucug...........	18	1	GDM
....auugcacuugucucggucug...........	161	0	GDM
....Cuugcacuugucucggucug...........	18	1	GDM
....auugcacuugucucggucug...........	161	0	GDM
....auCgcacuugucucggucug...........	2	1	GDM
....auugcacuugucucggCcug...........	2	1	GDM
....auugcacuuAucucggucug...........	1	1	GDM
....auugcacuugucucggucuA...........	10	1	GDM
....auuCcacuugucucggucug...........	1	1	GDM
....auugcacuugucucggucuA...........	10	1	GDM
....auugcacuugCcucggucug...........	1	1	GDM
....auugcacuCgucucggucug...........	6	1	GDM
....auugcacuugucucggucuA...........	10	1	GDM
....auugcacuCgucucggucug...........	6	1	GDM
....auugcacuugucucggucGg...........	3	1	GDM
....auugcacuCgucucggucug...........	6	1	GDM
....auugcacuugucucggucCga..........	1	1	GDM
....auugcacCugucucggucuga..........	2	1	GDM
....auugcacCugucucggucuga..........	2	1	GDM
....Cuugcacuugucucggucuga..........	11	1	GDM
....auugcacuugucucggucugU..........	12	1	GDM
....auugcacuugucucgguUuga.........	1	1	GDM
....Cuugcacuugucucggucuga..........	11	1	GDM
....auugcacuugucucAgucuga..........	1	1	GDM
....auugcacuugCcucggucuga..........	1	1	GDM
....auugcacuAgucucggucuga..........	1	1	GDM
....auugcacuugucucggucugU..........	12	1	GDM
....auugcacuugucucggucuga..........	167	0	GDM
....auugcacuugucucggucugG..........	1	1	GDM
....auugcacuugucucggucuga..........	167	0	GDM
....Guugcacuugucucggucuga..........	2	1	GDM
....auugcacuugucucggucugC..........	1	1	GDM
....auugcacuugucucggucuga..........	167	0	GDM
....Cuugcacuugucucggucuga..........	11	1	GDM
....auugcGcuugucucggucuga..........	1	1	GDM
....aCugcacuugucucggucuga..........	1	1	GDM
....auugcacuugucucggucugU..........	12	1	GDM
....auugcacuugucucggucugaU.........	1	1	GDM
....auugcacuugucucggucugaA.........	4	1	GDM
....auugcacuugucucggucugaA.........	4	1	GDM
....auugcacuugucucggucugac.........	1	0	GDM
....auugcacuugucucggucugaAa........	1	1	GDM
....uugcacuugucucggucuA............	1	1	GDM
....uugcacuugucucggucug............	3	0	GDM
....uugcacuugucucggucug............	3	0	GDM
....uugcacuugucucggucug............	3	0	GDM
....uugcacuugucucggucuga...........	19	0	GDM
....uugcacuugucucggucuga...........	19	0	GDM
....uugcacuugucucggucuga...........	19	0	GDM
....uugcacuugucucggucugaca.........	2	0	GDM
ggccaguuugag**aggcggagacuugggcaauug**cuggacgcugcccgggg...ugcacuugucucggucug...cagugccggcc	1	0	GDM
....ugcacuugucucggucugU...........	3	1	GDM

ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccugggcauugcacuugucucggucugacagugccggcc

```
................................................................ugcacuugucucggucuga...........      3      0    GDM
................................................................ugcacuugucucggucuga...........      3      0    GDM
...............................................................gcacuugucucggucuga...........      7      0    GDM
...............................................................gcacuugucucggucugU...........      1      1    GDM
...............................................................gcacuugucucAggucuga...........      1      1    GDM
...............................................................gcacuugucCcggucuga...........      1      1    GDM
...............................................................gcacuugucucggucuga...........      7      0    GDM
...............................................................gcacuugucucggucuga...........      7      0    GDM


...........aggcggagacuugggcaauu.....................................................      5      0    Z2_
...........aggcggagacuugggcaauC.....................................................      1      1    Z2_
...........aggcggagacuugggcaauug....................................................     13      0    Z2_
...........aggcggagacuugggcaauuA....................................................      1      1    Z2_
...........aggcggagacuugggcaauugc...................................................      2      0    Z2_
...........aggcggagacuugggcaauugcA..................................................      5      1    Z2_
...........aggcggagacGugggcaauugcu..................................................      1      1    Z2_
...........aggcggagacuugggcaauugcu..................................................     13      0    Z2_
..................................................Ccauugcacuugucucggucug...........      1      1    Z2_
..................................................gcauugcacuugucucggucuga...........      1      0    Z2_
..................................................cauugcacuugucucggC...............      1      1    Z2_
..................................................cauugcacuugucucggA...............      2      1    Z2_
..................................................cauugcacuugucucggu...............     15      0    Z2_
..................................................cauugcUcuugucucggu...............      1      1    Z2_
..................................................cauugcacuugucucgguA...............      3      1    Z2_
..................................................cauugcacuugucucgguc...............    176      0    Z2_
..................................................caCugcacuugucucgguc...............      2      1    Z2_
..................................................cauugcacuCgucucgguc...............      1      1    Z2_
..................................................Uauugcacuugucucgguc...............      1      1    Z2_
..................................................cauugcGcuugucucgguc...............      2      1    Z2_
..................................................cauCgcacuugucucgguc...............      1      1    Z2_
..................................................cauugcacuugCcucgguc...............      4      1    Z2_
..................................................cauugcacuugucucgguU...............     22      1    Z2_
..................................................cauuAcacuugucucgguc...............      1      1    Z2_
..................................................cauugcacCgucucgguc...............      3      1    Z2_
..................................................cauugcacuuCucucgguc...............      4      1    Z2_
..................................................cauugcacuugucucggAc...............      1      1    Z2_
..................................................cauugcUcuugucucgguc...............      2      1    Z2_
..................................................cauugcacAugucucgguc...............      1      1    Z2_
..................................................cauugcacuuguUucgggucu...............      3      1    Z2_
..................................................cauugcacuugucucUgucu...............      1      1    Z2_
..................................................cauugcacuugucucgguAu...............      2      1    Z2_
..................................................cauuAcacuugucucggucu...............      4      1    Z2_
..................................................caCugcacuugucucggucu...............     20      1    Z2_
..................................................cauugcacuugucucAggucu...............     11      1    Z2_
..................................................cauugUacuugucucggucu...............      7      1    Z2_
..................................................Aauugcacuugucucggucu...............      1      1    Z2_
..................................................cauugcacuCgucucggucu...............     21      1    Z2_
..................................................cauugcacCgucucggucu...............     11      1    Z2_
..................................................cauugcacuugucAcggucu...............      6      1    Z2_
..................................................cauugcacuugucCcggucu...............     20      1    Z2_
..................................................cauugcacuugucucgAucu...............      2      1    Z2_
..................................................cauugcacuugucucgguUu...............      9      1    Z2_
..................................................cauugcacuugucucggCcu...............     10      1    Z2_
..................................................cauuCcacuugucucggucu...............      1      1    Z2_
..................................................cauugcacuugucucggucu...............   2925      0    Z2_
..................................................cauugAacuugucucggucu...............      1      1    Z2_
..................................................cauugcacuugucucggGcu...............      1      1    Z2_
..................................................cauAgcacuugucucggucu...............      2      1    Z2_
..................................................cauugcaUuugucucggucu...............      6      1    Z2_
..................................................cauugcacGugucucggucu...............      1      1    Z2_
..................................................cauugcacuugucucggAcu...............      1      1    Z2_
..................................................cauugcacuugucuUggucu...............      7      1    Z2_
..................................................cauugcaGuugucucggucu...............      1      1    Z2_
..................................................cauugGacuugucucggucu...............      1      1    Z2_
..................................................cauugcacuAgucucggucu...............      1      1    Z2_
..................................................cauugcacuuUucucggucu...............      1      1    Z2_
..................................................cauugcacAugucucggucu...............      3      1    Z2_
ggccaguguugagaggcggagacuugggcaaugcuggacgcugcccugggcauugcacuuAucucggucu...agugccggcc      1      1    Z2_
..................................................cUuugcacuugucucggucu...............      4      1    Z2_
```

ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccgggcauugcacuugucucggucugacagugccggcc

Sequence	Count		
....Uauugcacuugucucggucu............	7	1	Z2_
....cauugcacuugCcucggucu............	21	1	Z2_
....cauugcacuugucucggucA............	92	1	Z2_
....cauCgcacuugucucggucu............	16	1	Z2_
....cGuugcacuugucucggucu............	8	1	Z2_
....cauugcUcuugucucggucu............	1	1	Z2_
....cauugcacuugucucggucG............	32	1	Z2_
....cauugcGcuugucucggucu............	20	1	Z2_
....caAugcacuugucucggucu............	2	1	Z2_
....cauugcacuugucucggucC............	242	1	Z2_
....Gauugcacuugucucggucu............	2	1	Z2_
....cauugcacCuguucucggucug............	128	1	Z2_
....cauugcacuuUucucggucug............	2	1	Z2_
....cauugcacuugucucAgucug............	68	1	Z2_
....cauuCcacuugucucggucug............	12	1	Z2_
....cauugcacuugAcucggucug............	23	1	Z2_
....cauugcacuugucucgguUug............	47	1	Z2_
....caCugcacuugucucggucug............	132	1	Z2_
....cGuugcacuugucucggucug............	128	1	Z2_
....cauugcaGuugucucggucug............	1	1	Z2_
....cauugcacuugucuUggucug............	57	1	Z2_
....cCuugcacuugucucggucug............	4	1	Z2_
....cauAgcacuugucucggucug............	44	1	Z2_
....cauugcacuuguAucggucug............	10	1	Z2_
....Gauugcacuugucucggucug............	11	1	Z2_
....cauugcacuuAucucggucug............	40	1	Z2_
....cauugcacuugucucggucGg............	9	1	Z2_
....cauugcacuugucGcggucug............	6	1	Z2_
....cauugAacuugucucggucug............	9	1	Z2_
....cauugcacuugGcucggucug............	5	1	Z2_
....cauugcacuugucucggGcug............	3	1	Z2_
....cauugcacuugucucggucuU............	107	1	Z2_
....cauugcacuugucucgAucug............	26	1	Z2_
....cauugGacuugucucggucug............	4	1	Z2_
....cauugcacGugucucggucug............	9	1	Z2_
....cauugcacuugCcucggucug............	175	1	Z2_
....cauugcacuugucucgCucug............	3	1	Z2_
....cauugcacuuguUucggucug............	20	1	Z2_
....cauugcacuugucucggucuC............	47	1	Z2_
....cauuUcacuugucucggucug............	6	1	Z2_
....cauugcacuugucuAggucug............	13	1	Z2_
....cauugcacuugucucCgucug............	7	1	Z2_
....cauugcUcuugucucggucug............	16	1	Z2_
....cauCgcacuugucucggucug............	155	1	Z2_
....cauugcaAuugucucggucug............	13	1	Z2_
....Aauugcacuugucucggucug............	22	1	Z2_
....cauugcaUuugucucggucug............	47	1	Z2_
....cUuugcacuugucucggucug............	28	1	Z2_
....cauugcGcuugucucggucug............	139	1	Z2_
....cauGgcacuugucucggucug............	8	1	Z2_
....cauugcacuugucucgguAug............	6	1	Z2_
....cauuAcacuugucucggucug............	50	1	Z2_
....cauugcacuugucucgUucug............	4	1	Z2_
....cauugcacuugucCcggucug............	159	1	Z2_
....caGugcacuugucucggucug............	10	1	Z2_
....cauugcacuuCucucggucug............	4	1	Z2_
....cauugcacuCgucucggucug............	206	1	Z2_
....cauugcacuugucucggucug............	29570	0	Z2_
....caAugcacuugucucggucug............	10	1	Z2_
....cauugcacuugucucUgucug............	9	1	Z2_
....cauugcCcuugucucggucug............	7	1	Z2_
....cauugUacuugucucggucug............	42	1	Z2_
....cauugcacuGgucucggucug............	9	1	Z2_
....Uauugcacuugucucggucug............	88	1	Z2_
....cauugcacuugucAcggucug............	35	1	Z2_
....cauugcacuugucucggCcug............	132	1	Z2_
....cauugcacAugucucggucug............	28	1	Z2_

ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccggg....cauugcacuugucucggucAg............ 33 1 Z2_
        ....cauugcacuAgucucggucug............ 48 1 Z2_

ggccaguguugagaggcggagacuugggcaauugcuggacgcugcccugggcauugcacuugucucggucugacagugccggcc

```
..............................................cauugcacuugucucggucuA.............    1203    1    Z2_
..............................................cauugcacuugucucggucCg.............    183     1    Z2_
..............................................cauugcacuugucucggAcug.............    16      1    Z2_
..............................................cauugcacuugucucAgucuga............    90      1    Z2_
......................................cUuugcacuugucucggucuga...........    32      1    Z2_
..............................................cauugcacuugucucggucCga...........    158     1    Z2_
..............................................cauugcacuCgucucggucuga...........    232     1    Z2_
..............................................cauugcacuugucucCgucuga...........    14      1    Z2_
..............................................cauugcacuugucuAggucuga...........    13      1    Z2_
..............................................cauugcacuugGcucggucuga...........    5       1    Z2_
..............................................cauugAacuugucucggucuga...........    8       1    Z2_
..............................................cauugcacuugucucgguAuga...........    4       1    Z2_
..............................................cauugUacuugucucggucuga...........    71      1    Z2_
..............................................cauugcacuGgucucggucuga...........    26      1    Z2_
..............................................cauugcacuugucucggCcuga...........    224     1    Z2_
..............................................cauugcacCugucucggucuga...........    174     1    Z2_
..............................................cauugcacAugucucggucuga...........    36      1    Z2_
..............................................cauugcacuugucucggGcuga...........    4       1    Z2_
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......................................Uauugcacuugucucggucuga...........    124     1    Z2_
..............................................cauugcacuugucucggucuUa...........    5       1    Z2_
..............................................cauugcaAuugucucggucuga...........    15      1    Z2_
..............................................cauugcacuugucuUggucuga...........    86      1    Z2_
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..............................................cauugcacuugucGcggucuga...........    12      1    Z2_
..............................................cauugGacuugucucggucuga...........    6       1    Z2_
......................................cauAgcacuugucucggucuga...........    55      1    Z2_
..............................................cauugcacuugucucggucugG...........    391     1    Z2_
..............................................cauugcacuuUucucggucuga...........    9       1    Z2_
..............................................cauugcacuugCcucggucuga...........    267     1    Z2_
..............................................cauugcacuugucucgCucuga...........    2       1    Z2_
......................................cGuugcacuugucucggucuga...........    130     1    Z2_
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..............................................cauugcacuugucucggAcuga...........    18      1    Z2_
......................................cauGgcacuugucucggucuga...........    11      1    Z2_
..............................................cauugcacuugucucggucugU...........    3433    1    Z2_
......................................cCuugcacuugucucggucuga...........    5       1    Z2_
..............................................cauugcacuuAucucggucuga...........    37      1    Z2_
..............................................cauugcacuugucCcggucuga...........    187     1    Z2_
..............................................cauugcacuuguAucggucuga...........    4       1    Z2_
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......................................caCugcacuugucucggucuga...........    246     1    Z2_
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..............................................cauugcUcuugucucggucuga...........    51      1    Z2_
..............................................cauugcacuugucucgguGuga...........    1       1    Z2_
......................................Aauugcacuugucucggucuga...........    31      1    Z2_
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..............................................cauugcacuugucucgguUuga...........    61      1    Z2_
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......................................caAugcacuugucucggucuga...........    23      1    Z2_
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..............................................cauugcacuugucAcggucuga...........    43      1    Z2_
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......................................cauuAcacuugucucggucuga...........    71      1    Z2_
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..............................................cauugcacuugucucggucAga...........    19      1    Z2_
......................................cauuCcacuugucucggucuga...........    16      1    Z2_
..............................................cauugcacuugAcucggucuga...........    48      1    Z2_
..............................................cauugcacuugucucgggucugC...........    255     1    Z2_
ggccaguguugagaggcggagacuugggcaauug........cauugcacuCgucucggucugac.......    2       1    Z2_
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..................................................cauugcacuugucucggucugUc..........          4    1    Z2_
..................................................cauugcacuugucucggucugaA..........       1006    1    Z2_
..................................................cauugcacuugucucggucugac..........         19    0    Z2_
..................................................cauugcacuugucucggucugaca.........         29    0    Z2_
..................................................cauugcacuugucucggucugaAa.........        372    1    Z2_
..................................................cauugcacuugucucggucugaUa.........         18    1    Z2_
..................................................cauugcacuugucucggucugacU.........          1    1    Z2_
..................................................cauugcacuugucucggucugaGa.........         23    1    Z2_
..................................................cauugcacuugucucggucugaAag........          1    1    Z2_
.................................................auugcacuugucucggucuA............          1    1    Z2_
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.................................................Guugcacuugucucggucug............          5    1    Z2_
.................................................auugcacuugCcucggucug............          1    1    Z2_
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.................................................auugcacuugucucggucuga...........         49    0    Z2_
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.................................................auugcaGuugucucggucuga...........          1    1    Z2_
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............aggcggagacuugggcaauugcC.............................................          2    1    Z1_
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...................................................cauugcacuugucucgguc................        258    0    Z1_
...................................................Gauugcacuugucucgguc................          1    1    Z1_
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...................................................cauugcacuuAucucgguc................          1    1    Z1_
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.......................................................cauugcacGugucucggucug...........   14    1    Z1_
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.......................................................cauugcacuAgucucggucug...........   65    1    Z1_
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.......................................................cauugcaUuugucucggucug............    46     1        Z1_
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.......................................................cauugcacuugucucggGcug............    4      1        Z1_
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.......................................................cauugcacuugucucggCcug............    234    1        Z1_
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.......................................................cauugcacuuguUucggucugG...........    51     1        Z1_
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.......................................................cauugcacuugucucAgucug............    113    1        Z1_
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.......................................................cauugcacuugucucgguAug............    12     1        Z1_
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.......................................................cauugcacuugucuAggucug............    23     1        Z1_
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.......................................................cauugcacuugucucgUucuga...........    9      1        Z1_
.......................................................cauugcacuugucucggucugG...........    743    1        Z1_
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.......................................................cauugcacuugucucCgucuga...........    16     1        Z1_
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.......................................................cauugcacuGgucucggucuga...........    30     1        Z1_
.......................................................cauugcacuugucucggucCga...........    274    1        Z1_
.......................................................cauugcacuugucucgAucuga...........    86     1        Z1_
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.......................................................cauugcacuugucucggucuCa...........    4      1        Z1_
.......................................................cauugcacuugucucggucuUa...........    16     1        Z1_
.......................................................cauugAacuugucucggucuga...........    17     1        Z1_
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hsa-miR-25-3p

hsa-miR-25-5p

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....cauugcaGuugucucggucuga...........	4	1	Z1_
....cauugcacAugucucggucuga...........	57	1	Z1_
....cauugcacuugucucggucugU...........	5380	1	Z1_
....cauugcacuugucuGggucuga...........	1	1	Z1_
....caAugcacuugucucggucuga...........	27	1	Z1_
....cauugcacuugucucgCucuga...........	15	1	Z1_
....cauugcacuugucucUgucuga...........	43	1	Z1_
....cauugcacuugucucgguAuga...........	14	1	Z1_
....caCugcacuugucucggucuga...........	352	1	Z1_
....cauuCcacuugucucggucuga...........	33	1	Z1_
....cauuAcacuugucucggucuga...........	107	1	Z1_
....cauugcacuugucucggGcuga...........	7	1	Z1_
....cauugcacCugucucggucuga...........	344	1	Z1_
....cauugcacuugucucggucAga...........	44	1	Z1_
....cauugcacuuAucucggucuga...........	67	1	Z1_
....cauGgcacuugucucggucuga...........	25	1	Z1_
....cUuugcacuugucucggucuga...........	63	1	Z1_
....cauAgcacuugucucggucuga...........	73	1	Z1_
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hsa-miR-25-5p

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