Mfold structures of candidate precursors identified by findMiRNA

Mfold structures of findMiRNA predicted precursor candidates. Predicted miRNA sequence is shown in red. These structures were predicted with Mfold version 3.1 (http://www.bioinfo.rpi.edu/applications/mfold/), using the default parameter settings which include the conditions 37° C and 1M NaCl.

cmr_3

AT1G69800

```
Structure 1
Folding bases     1 to   130 of 04Aug06-18-24-32
Initial dG =    -60.6

         10        20        30        40        50            60
UAAA|    -     C   U                    U       ACU-   UU--   -   U
    GUCAA AUGUC CCU GAGUUCCCUUAAACGCUUCA UGUUCAU    UUG    AUC AUC A
    CGGUU UACAG GGA CUCAGGGGGGUUUGUGAAGU ACAAGUA    AAC    UAG UAG U
CCA-^    C     U   U                    C       GUCU   UAAC   C   C
.        120       110       100       90        80        70
```

AT1G26990

```
Structure 1
Folding bases     1 to    94 of 04Aug06-18-28-28
Initial dG =    -42.1

        10        20        30        40
UCC|  U         UU         U    AA    UCA     AC
   CCA GAGUUCCCU  AACGCUUCA UGUU  AUAC   AAGCC  \
   GGU CUCAGGGGG  UUGUGAAGU ACAA  UAUG   UUUGG  A
UGU^  U          GU         C    CA    ---     UU
   90        80        70        60          50
```

AT1G26990

```
Structure 1
Folding bases     1 to   115 of 04Aug06-18-29-27
Initial dG =    -53.9

        10        20        30        40        50
UUC |G        UC   UA         UG         U    GAUACA    U
   UU GUUGGAUG  UCC  GAGUUCCUC  AGCACUUCA UGGG      AUUU U
   AG CAACUUAC  AGG  CUCAAGGGG  UUGUGAAGU ACCU      UAAA C
UUU ^G        CC   CC         GU         C    AUUAG-    U
   110       100        90        80        70         60
```

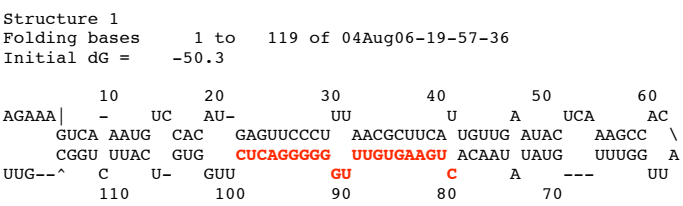
AT1G69800

```
Structure 1
Folding bases     1 to    81 of 04Aug06-18-30-15
Initial dG =    -39.2

        10        20        30        40
CUA|        UG         U      U  A     U
   GAGUUCCUC  AGCACUUCA UGGAGA AC AUUUU U
   CUCAAGGGG  UUGUGAAGU AUCUUU UG UAAAA A
GCC^        GU         C      -  A     U
80        70        60         50
```

At1g69800

```
Structure 1
Folding bases     1 to    92 of 04Aug06-19-51-10
Initial dG =    -40.9

        10        20        30          40
CC| UA         UG         U     AU--      UUCA
  UC  GAGUUCUCC  AACACUUCA UGGAA    UUGUUA    G
  AG  CUCAAGGGG  UUGUGAAGU ACCUU    GACAAU    U
GU^ CC         GU         C     AAUU      CGAA
 90        80        70        60        50
```

At1g26990


Structure 1
Folding bases 1 to 119 of 04Aug06-19-57-36
Initial dG = -50.3
10 20 30 40 50 60
AGAAA| - UC AU- UU U A UCA AC
GUCA AAUG CAC GAGUUCCCU AACGCUUCA UGUUG AUAC AAGCC \
CGGU UUAC GUG CUCAGGGGG UUGUGAAGU ACAAU UAUG UUUGG A
UUG--^ C U- GUU GU C A --- UU
110 100 90 80 70

cmr 5

AT1G73360

```
Structure 1
Folding bases     1 to    65 of 04Aug09-17-06-04
Initial dG =    -16.2

        10        20        30
AUA|       UGCC  A     ACA   AAAG
   GAAGUCAA    CG ACCAU   AAC    \
   CUUCAGUU    GC UGGUA   UUG    U
GAC^       CUU-  G     CG-   AAAC
    60         50         40


Structure 2
Folding bases     1 to    65 of 04Aug09-17-06-04
Initial dG =    -15.3

        10           20        30
AUA       --- |  CCGA     ACA   AAAG
   GAAGUCA   AUGC    ACCAU   AAC    \
   CUUCAGU   UGCG    UGGUA   UUG    U
GAC       UCU ^  ----     CG-   AAAC
    60        50             40
```

AT5G46890

```
Structure 1
Folding bases     1 to   133 of 04Aug09-17-06-58
Initial dG =    -36.4

          10        20          30        40        50         60
CCAAG|   --       UACC  A     .-CUACGC       UCA     AAA-       U
     UAGA  AAGUCAA    CG ACCAG         UUUUCUG   AACCG    AUCGGUU \
     AUCU  UUCAGUU    GC UGGUC         AAAAGAC   UUGGC    UAGCCAG A
UUA--^   CC        CUC-  G     \ ------        ---     CUAA       A
   130       120        110               80          70


                              90
                             CCAAAA   CA
                                  GGU  A
                                  CCA  C
                             CAA---   UU
                                   100


Structure 2
Folding bases     1 to   133 of 04Aug09-17-06-58
Initial dG =    -36.0

          10        20          30        40          50
CCAAG    --       UACC  A     .-CUACGC       .-UC      AA
     UAGA  AAGUCAA    CG ACCAG         UUUUCUG    AAACCG  \
     AUCU  UUCAGUU    GC UGGUC         AAAAGAC    UUUGGC  A
UUA--    CC        CUC-  G     \ ------        \ --      UA
   130       120        110               80    60


                                                 70
                                          AA   | AU
                                            GACCG  A
                                            UUGGC  A
                                          --   ^ CU


                              90
                             CCAAAA   CA
                                  GGU  A
                                  CCA  C
                             CAA---   UU
                                   100
```

cmr_6

AT1G29270

```
Structure 1
Folding bases     1 to   121 of 04Aug25-19-45-26
Initial dG =    -50.7

        10         20         30         40         50         60
AAUGC|           A         A         A    -      C     UCUU-      CU
     AUUACAGGGUA GAUCUCU UUGGCAGG AAC CAUUA UUAGA     UGCAU  C
     UAAUGUCCCGU UUAGAGG AACCGUCU UUG GUGAU AAUUU     ACGUA  U
CUUCU^           -        A         A   A     U     UCGUU     UU
 .       110         100         90         80         70
```

AT2G34210

```
Structure 1
Folding bases     1 to    91 of 04Aug25-19-49-48
Initial dG =    -39.9

        10         20         30         40
ACA|         C   A        U     U      CCCU-  UA
   GGGCGAAUC UCU UUGGCAG GGAAG UGAUGA     UA  \
   UCCGUUUAG AGG AACCGUC CCUUU ACUACU     AU  U
CGC^         -   A        U     U      CUUUU  UG
90         80          70         60         50
```

AT5G62165

```
Structure 1
Folding bases     1 to   132 of 04Aug25-19-52-03
Initial dG =    -67.7

        10          20         30         40         50         60
ACGA|       -     A         U      A         C   U      UUU  AUCUUUU
    UAAGCGGA GCAGU AUAGGGCA CUUUCU UUGGCAGG GAC UGGCUA   GU       G
    AUUCGCCU CGUCA UGUCCCGU GAGAGG AACCGUUC CUG AUCGGU   CA       U
CAA-^       U     C         U       A         A   U      UAU  GUUCUUG
130         120        110        100         90         80         70
```

AT2G34210

```
Structure 1
Folding bases     1 to    82 of 04Aug25-19-54-07
Initial dG =    -37.7

        10         20          30         40
ACU|       A     A        UC-      G-    AGAU
   GGGCGAAU CUCCU UGGCAGA    GCAUU  GCU     \
   CCCGUUUA GAGGA ACCGUCU    CGUAA  UGA     A
CGC^       -      A        CUU      AA    ACGU
 80          70         60         50
```

AT1G63010

```
Structure 1
Folding bases     1 to   137 of 04Aug25-19-55-29
Initial dG =    -61.0

        10         20         30         40          50
CUC|             C       A          C    .-CUUCCAA     CAC
   ACUAGUUUUAGGGCG CUCUCC UUGGCAGGUC UUUA          AUAUA   A
   UGGUCAAAGUCCCGU GAGAGG AACCGUCCAG AAAU          UAUAU   U
ACU^               U       A           U    \ -------     ACA
     130        120        110        100                  60


                                                 70
                                        ------  A     AAA
                                              GA UAUCG   A
                                              CU GUAGC   U
                                        AUUUAG  A     CUU
                                             90         80
```

```
Structure 2
Folding bases     1 to   137 of 04Aug25-19-55-29
Initial dG =    -60.7

        10        20        30        40          50        60
CUC               C      A          C    .-CUUCCAAAUAUACA   |C
   ACUAGUUUUAGGGCG CUCUCC UUGGCAGGUC UUUA               CAUA A
   UGGUCAAAGUCCCGU GAGAGG AACCGUCCAG AAAU               GUAU U
ACU               U      A          U    \ --------------   ^A
     130       120       110       100

                                          70
                                       AA-------     AAA
                                                UAUCG   A
                                                GUAGC   U
                                       AUUUAGCUA     CUU
                                            90        80


Structure 3
Folding bases     1 to   137 of 04Aug25-19-55-29
Initial dG =    -59.9

        10        20        30        40          50        60
CUC               C      A          C    .-CUUCCAAAUAUACA    C
   ACUAGUUUUAGGGCG CUCUCC UUGGCAGGUC UUUA               CAUA A
   UGGUCAAAGUCCCGU GAGAGG AACCGUCCAG AAAU               GUAU U
ACU               U      A          U    \ --------------    A
     130       120       110       100

                                         70        80
                                       AAU|    AA   U
                                          AUCGA  AUU \
                                          UAGCU  UAG C
                                       AUU^    AG   C
                                            90
```

cmr 7

AT5G35360

```
Structure 1
Folding bases     1 to   127 of 04Aug07-18-54-55
Initial dG =    -45.7

         10        20          30          40
AG-|  A          C       .-UACCCA       .-A   A
   GUA UACCCGAACC GAACCGA        CGGGUAC   CUU C
   CGU AUGGGCUUGG CUUGGCU        GCCCAUG   GGA A
GAG^  -          C       \ ------       \ -   U
      120       110               80

                                        50        60
                                        ACCCAUC       AA
                                               AGUGUAA  \
                                               UCAUAUU  U
                                        C------       CC
                                                  70

                              90
                          CCCU-   UC
                               GAA  G
                               UUU  U
                          UGUUU   UU
                           100


Structure 2
Folding bases     1 to   127 of 04Aug07-18-54-55
Initial dG =    -43.5

         10        20          30        40        50
AG-  A           C       .-UACCCA       ACUUACAU  | CCCAUCA
   GU AUACCCGAACC GAACCGA        CGGGUAC        AGGA       \
   CG UAUGGGCUUGG CUUGGCU        GCCCAUG        UCCU       G
GAG  -           C       \ ------       CUCAUAU-  ^ AAAAUGU
      120       110               80        70         60

                              90
                          CCCU-   UC
                               GAA  G
                               UUU  U
                          UGUUU   UU
                           100
```

AT3G28410

```
Structure 1
Folding bases     1 to   119 of 04Aug07-18-56-17
Initial dG =    -37.7

        10        20        30        40          50        60
UUA|         C       UA  A    UAC    ACAUA-  ACCC-  C      AAA
   UACUCGAACC GAACCGA  CC CGAG   ACUU      GG     AU AGUGUA   \
   AUGGGCUUGG CUUGGCU  GG GCUU   UGAA      CC     UA UCAUAU   U
CUC^         C       --  -    UU-    CAAACC  GCCCA  U      ACC
       110       100            90        80        70
```

AT5G35340

```
Structure 1
Folding bases     1 to    56 of 04Aug07-18-57-00
Initial dG =    -23.1

        10        20        30
AAUAA|      C       UUU   CAA
     CCGAACC GAACCGA    GCU   A
     GGCUUGG CUUGGCU   UGG   U
AAAUA^      -       ---   UUC
     50         40
```

```
Structure 2
Folding bases     1 to    56 of 04Aug07-18-57-00
Initial dG =    -22.9

             10          20
AAU-----       C       -- |   G
        AACCGAA CCGAACC  GAUUU C
        UUGGCUU GGCUUGG  CUAAA U
AAAUAGGC       -       UU ^   C
     50         40        30
```

AT2G14960

```
Structure 1
Folding bases     1 to    88 of 04Aug07-19-03-29
Initial dG =    -20.1

        10        20          30
UCUACC|     C          .-ACCCAUAU  C
      CGAACC GAACGGAUU           GC C
      GCUUGG CUUGCUUAG           CG A
UUUUUU^     U          \ --------  G
       80        70


                      40
                      CCAACU-------  AA
                                    GU  \
                                    CA  C
                      ACUAUUUUUAAAC  AU
                           60        50
```

```
Structure 2
Folding bases     1 to    88 of 04Aug07-19-03-29
Initial dG =    -19.8

        10        20          30
UCUACC      C         .-ACCCAUAUGCC   GC
      CGAACC GAACGGAUU              CAG  C
      GCUUGG CUUGCUUAG              GUC  C
UUUUUU      U         \ -----------   AA
       80        70                    40


                        50
                      UAAC|  CCA
                          UAA   A
                          AUU   A
                      ACU-^  UUU
                            60


Structure 3
Folding bases     1 to    88 of 04Aug07-19-03-29
Initial dG =    -19.5

        10        20          30
UCUACC      C       .-UUACCCAUAU  C
      CGAACC GAACGGA             GC C
      GCUUGG CUUGCUU             CG A
UUUUUU      U       \ ----------  G
       80        70


                    40        50
                    CCAA | UAACUAACC
                         CUG         \
                         GAC         A
                    A--- ^ UAUUUUUAA
                              60
```

cmr 75

AT5G08740

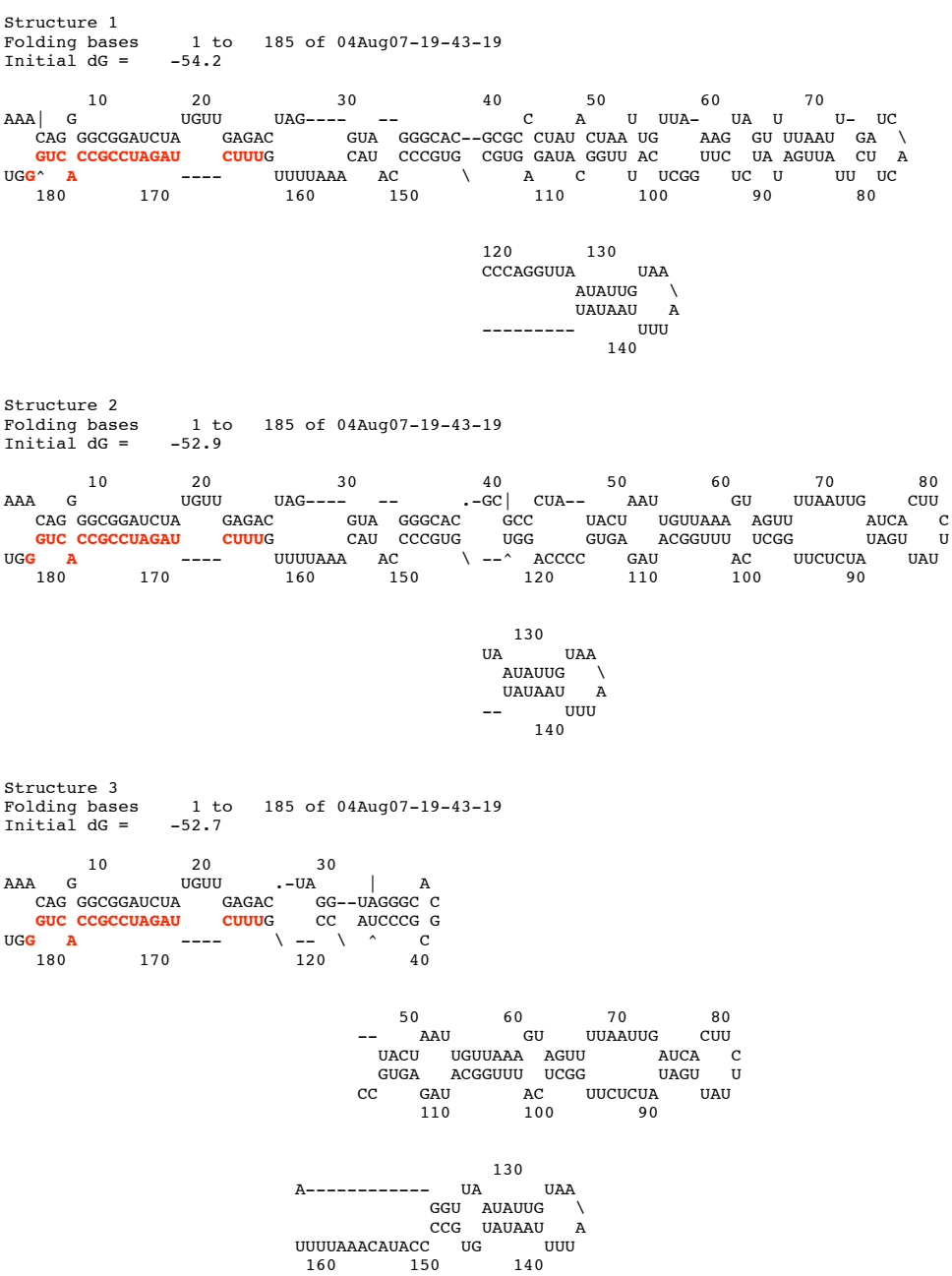
```
Structure 1
Folding bases     1 to   108 of 04Aug07-19-26-06
Initial dG =    -48.2

        10        20        30        40        50
UUC| G         U           U  C              AAAUUCC
   CU UAACAACAA ACGACGUUGUUU GU GUAACGAUGAAACU       A
   GA AUUGUUGUU UGCUGCAGCAAA CA UAUUGUUGCUUUGA       A
AAA^ G         U            C  U              AACUUUA
      100       90        80        70        60


Structure 2
Folding bases     1 to   108 of 04Aug07-19-26-06
Initial dG =    -48.1

        10        20        30        40           50
UUC  G         U           U  C              --- |   C
   CU UAACAACAA ACGACGUUGUUU GU GUAACGAUGAAACU   AAAUU \
   GA AUUGUUGUU UGCUGCAGCAAA CA UAUUGUUGCUUUGA   UUUAA C
AAA  G         U            C  U              AAC ^   A
      100       90        80        70        60
```

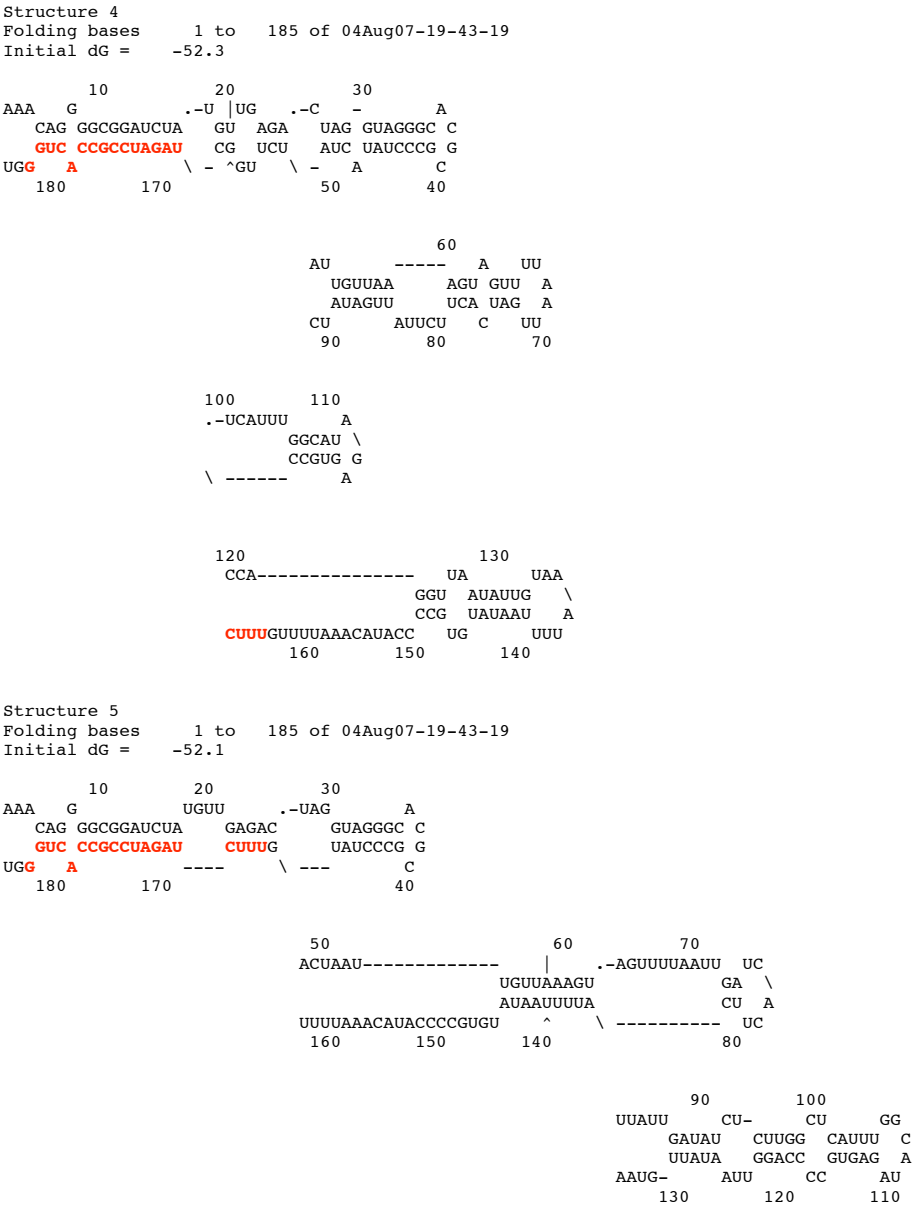
AT5G37820

```
Structure 1
Folding bases     1 to   105 of 04Aug07-19-26-54
Initial dG =    -35.9

        10        20          30        40        50
UUCU|                   U    --  C   UACAAAA     U     AA
    AUCAAAACGACGUCGUUUUA GAGU  UC GUU       AAAUC AAAGC  C
    UAGUUUUGCUGCAGCAAAAU CUUA  AG CAA       UUUAG UUUUG  G
AAUU^                   -    AA  A   -------     -     CU
   100        90         80        70               60


Structure 2
Folding bases     1 to   105 of 04Aug07-19-26-54
Initial dG =    -34.2

        10        20        30        40        50
UUCU                    U     CCG | ACAAAA     U     AA
    AUCAAAACGACGUCGUUUUA GAGUU   UUU       AAAUC AAAGC  C
    UAGUUUUGCUGCAGCAAAAU CUUAA   AAG       UUUAG UUUUG  G
AAUU                    -     --- ^ ACAA--     -     CU
   100        90         80           70           60


cmr 75 - AT4G05520

Structure 1
Folding bases     1 to    71 of 04Aug07-19-27-48
Initial dG =    -26.0

        10        20        30
GAAU|          A          CGAUU     UCA
    CAAAACGACG CGUUUCUAU     AUGGC   \
    GUUUUGCUGU GCAAAGAUA     UACUG   U
AAUC^          A          U----     UUU
70        60        50             40
```

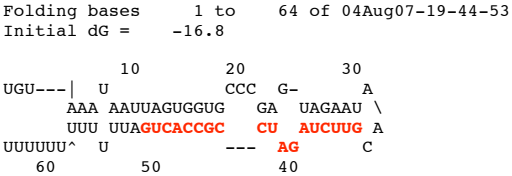
cmr 84

AT3G45850




Structure 4
Folding bases 1 to 185 of 04Aug07-19-43-19
Initial dG = -52.3
Structure 5
Folding bases 1 to 185 of 04Aug07-19-43-19
Initial dG = -52.1

AT5G34853


Structure 1
Folding bases 1 to 64 of 04Aug07-19-44-53
Initial dG = -16.8

cmr 165

AT3G30220

```
Structure 1
Folding bases     1 to    93 of 04Aug07-19-53-32
Initial dG =    -25.0

         10         20         30        40
AUU|     -   A-     G GC  -  C     A   UU      C
   AUCCAG AUC  GGAUU G  CU UG AUGGU UUU  GUUUUC U
   UAGGUC UAG  UCUAG C  GA AC UACUA AGG  UAGGAG G
UCC^     C   GC     G UA  C  -     C   U-      A
  90        80        70         60         50
```

AT1G32230

```
Structure 1
Folding bases     1 to   113 of 04Aug07-19-54-06
Initial dG =    -51.8

        10         20          30        40
CAU|            -     G    .-GC        UAA    UUU
   AAUCCGGAUCCGU AUCCG AUCC    CGGAUUCG   AUGC   \
   UUAGGCCUAGGCA UAGGC UAGG    GCCUAGGC   UAUG   A
AGC^           C     -    \ --         C--    CCC
 110       100         90        60          50
```

```
                            70
                         UCGCAC    U
                               CCGG U
                               GGCU A
                         UCUUUU    U
                               80
```

```
Structure 2
Folding bases     1 to   113 of 04Aug07-19-54-06
Initial dG =    -49.5

        10         20          30          40
CAU             -    G     .-G  |   UC--     U
   AAUCCGGAUCCGU AUCC GAUCC   CCGGAU    GUAAA \
   UUAGGCCUAGGCA UAGG CUAGG   GGCCUA    CAUUU G
AGC             C    -     \ -  ^   UGCC     C
 110       100         90            50
```

```
                            60        70
                         AUCCGUCGCAC    U
                                   CCGG U
                                   GGCU A
                         UCUUUU-----    U
                                   80
```

cmr 195

AT1G19900

```
Structure 1
Folding bases     1 to   154 of 04Aug07-19-59-32
Initial dG =    -76.5

        10        20        30        40        50          60
AUAGUC|               U                          .-CUUA   A
      ACUUUUCACUGUUUGAU CGUACACUUGGAUUGUACAUCACUUUU      UAC A
      UGAAAAGUGACAAACUA GCAUGUGAAUCUAACAUGUGGUGAAAA      AUG A
AAACUA^                U                          \ ----   U
  150       140       130       120       110

                                                      70        80
                                                    A        CU       UU
                                                     AGUGUACG  GUGUAU  U
                                                     UUACAUGU  UAUAUA  U
                                                    -        U-       UA
                                                      100         90


 Structure 2
Folding bases     1 to   154 of 04Aug07-19-59-32
Initial dG =    -76.2

        10        20        30        40        50        60          70
AUAGUC                U                          CUUA      |   ---   U    GC
      ACUUUUCACUGUUUGAU CGUACACUUGGAUUGUACAUCACUUUU    UACAAAUGUA   AAG GUAC  \
      UGAAAAGUGACAAACUA GCAUGUGAAUCUAACAUGUGGUGAAAA    AUGUUUAUAU   UUU UAUG  U
AAACUA                U                          UUAC      ^   AUA   U    UG
  150       140       130       120       110       100        90        80


AT2G12480

Structure 1
Folding bases     1 to   117 of 04Aug07-20-54-15
Initial dG =    -40.3

         10        20          30         40
UUC|     -             .-UU       AGA-      U
   ACUGUU GAUUCGUACACUU    AGUGUAU    UGUAUG A
   UGAUAA CUAAGCAUGUGAA    UCACAUG    ACAUAU A
AAA^     A             \ --       CGAC      A
     110       100          60        50


                          70
                      UAU         C  A
                         AUUUGUACA UA A
                         UAGACAUGU AU A
                      CU-         U  A
                          90        80


Structure 2
Folding bases     1 to   117 of 04Aug07-20-54-15
Initial dG =    -38.6

         10        20          30          40
UUC    -             .-U              --    AAUAUA
   ACUG UUGAUUCGUACAC   UUUAGUGUAUAGAUGUA  UGUA      \
   UGAU AACUAAGCAUGUG   AAAUCACAUGUUUAUAU  ACAU      C
AAA    A             \ -                 UC    GCGACA
     110       100             70        60        50


                     80
                     AAUA|  UAC
                         UUG   A
                         AAC   G
                     ----^  UUA
                            90
```

AT2G39795

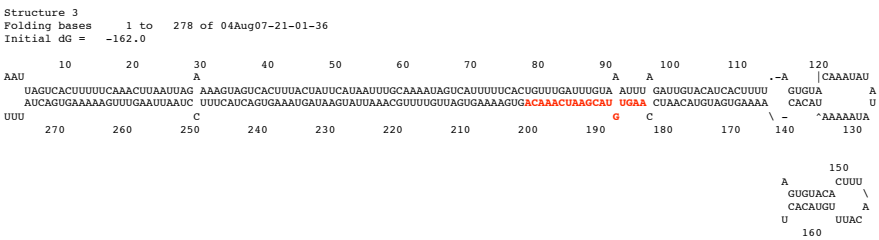
```
Structure 1
Folding bases     1 to   220 of 04Aug07-20-55-52
Initial dG =   -144.8

        10        20        30        40        50        60        70        80        90          100
AAAA|                                   -         C                                          ---   U    GC
    UAGUCACUUUACUAUUCAUAAUUUGCAAAAUAGUCACUUUU CACUGUUUGAUU GUACACUUGGAUUGUACAUCACUUUUAGUGUACAAAUAUA   AAA GUAC  \
    AUCAGUGAAAUGAUAAGUAUUAAACGUUUUAUCAGUGAAAA GUGACAAACUAA CAUGUGAACCUAACAUGUAGUGAAAAUCACAUGUUUAUAU   UUU UAUG  U
UUC-^                                       A           A                                         AUA   U    UG
.        210       200       190       180       170       160       150       140       130       120       110
```

AT4G15280

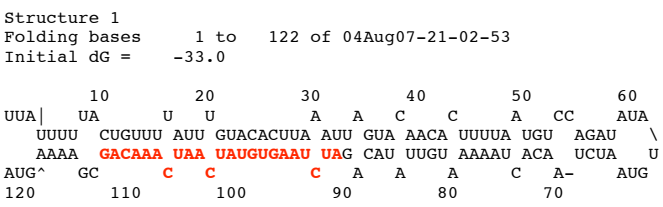
```
Structure 1
Folding bases     1 to   135 of 04Aug07-20-57-29
Initial dG =    -70.3

        10        20        30        40        50            60
UUC|                    G   U                     A     ----   U    GC
   ACUGUUUGAUUCGUAUACUU GAU GUACAUCAUUUUUAGUGUACA AUGUA    AAG GUAC  \
   UGACAAACUAAGCAUGUGAA CUA CAUGUGGUGAAAAUCACAUGU UACAU    UUU UAUG  U
AAA^                    G   U                     A     AUAU   U    UG
   130       120       110       100       90        80        70

Structure 2
Folding bases     1 to   135 of 04Aug07-20-57-29
Initial dG =    -70.1

        10        20        30        40          50
UUC                     G   U                    .-AAU   AA
   ACUGUUUGAUUCGUAUACUU GAU GUACAUCAUUUUUAGUGUACA     GUA  \
   UGACAAACUAAGCAUGUGAA CUA CAUGUGGUGAAAAUCACAUGU     CAU  G
AAA                     G   U                    \ ---   GU
   130       120       110       100       90          60


                                                    70
                                                  GC   |   UU
                                                    UGUGUAU  \
                                                    ACAUAUA  U
                                                  AU   ^   UU
                                                       80

Structure 3
Folding bases     1 to   135 of 04Aug07-20-57-29
Initial dG =    -67.6

        10        20        30        40        50        60
UUC                     G   U                     A    AAA    |CGCUGU
   ACUGUUUGAUUCGUAUACUU GAU GUACAUCAUUUUUAGUGUACA AUGU   GUGUA      G
   UGACAAACUAAGCAUGUGAA CUA CAUGUGGUGAAAAUCACAUGU UACA   UAUAU      U
AAA                     G   U                     A    ---    ^UUUUUA
   130       120       110       100       90          80        70
```

AT1G11680

```
Structure 1
Folding bases     1 to   278 of 04Aug07-21-01-36
Initial dG =   -169.6

       10        20        30        40        50        60        70        80        90       100       110       120       130
AAU|                    A                                                     A   A                                 A  UAUAAAA    A
   UAGUCACUUUUUCAAACUUAAUUAG AAAGUAGUCACUUUACUAUUCAUAAUUUGCAAAAUAGUCAUUUUUCACUGUUUGAUUUGUA AUUU GAUUGUACAUCACUUUUAGUGUACAAAU UA       AUAC \
   AUCAGUGAAAAAGUUUGAAUUAAUC UUUCAUCAGUGAAAUGAUAAGUAUUAAACGUUUUGUUAGUGAAAAGUGACAAACUAAGCAU UGAA CUAACAUGUAGUGAAAAUCACAUGUUUA AU       UGUG C
UUU^                    C                                                       G   C                                 C  UUCACA-    A
      270       260       250       240       230       220       210       200       190       180       170       160       150

Structure 2
Folding bases     1 to   278 of 04Aug07-21-01-36
Initial dG =   -168.4

       10        20        30        40        50        60        70        80        90       100       110       120        130
AAU                     A                                                     A   A                                .-AUA | A
   UAGUCACUUUUUCAAACUUAAUUAG AAAGUAGUCACUUUACUAUUCAUAAUUUGCAAAAUAGUCAUUUUUCACUGUUUGAUUUGUA AUUU GAUUGUACAUCACUUUUAGUGUACAAAU     UAU A
   AUCAGUGAAAAAGUUUGAAUUAAUC UUUCAUCAGUGAAAUGAUAAGUAUUAAACGUUUUGUUAGUGAAAAGUGACAAACUAAGCAU UGAA CUAACAUGUAGUGAAAAUCACAUGUUUA     AUA A
UUU                     C                                                       G   C                                \ --- ^ A
      270       260       250       240       230       220       210       200       190       180       170       160

                                                                                                                  140
                                                                                                                  CAC-   G
                                                                                                                      AGU U
                                                                                                                      UCA A
                                                                                                                  CAUU   C
                                                                                                                    150
```


Structure 3
Folding bases 1 to 278 of 04Aug07-21-01-36
Initial dG = -162.0

AT2G18540


Structure 1
Folding bases 1 to 122 of 04Aug07-21-02-53
Initial dG = -33.0

cmr 201

AT5G06700

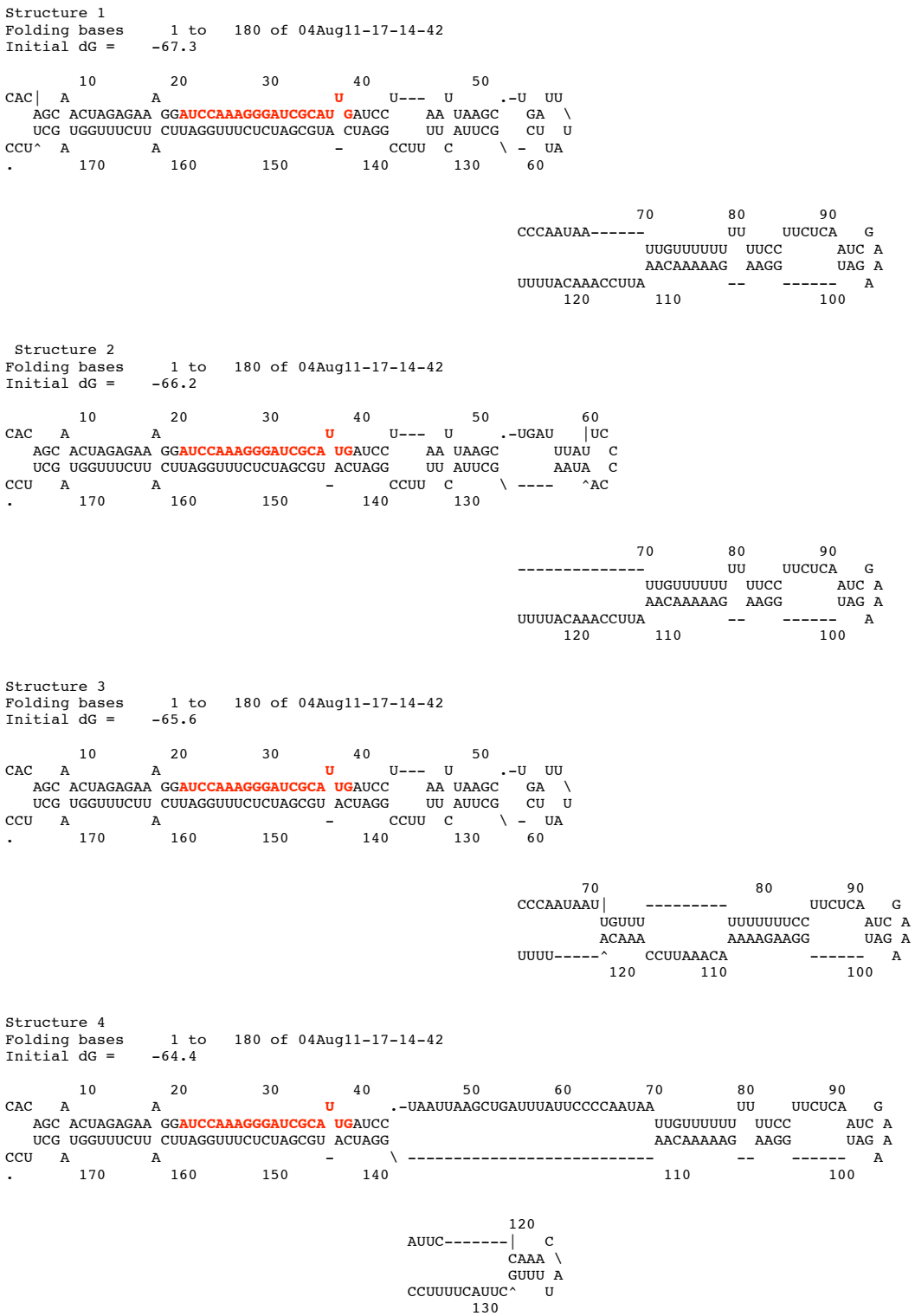
```
Structure 1
Folding bases     1 to    74 of 04Aug07-21-19-55
Initial dG =    -24.7

        10        20        30
UAA|   U        UAGA       GAAG  CG   G
   UCGA CUCUCUAA    GUUGGU    UA  UUU A
   AGCU GAGAGAUU    CAGCCG    AU  AAG A
UAA^   -        UG--       GAA-  AA   A
   70         60          50         40
```

AT2G19180

```
Structure 1
Folding bases     1 to    75 of 04Aug07-21-20-33
Initial dG =    -20.1

        10         20        30
UUC|       CUAAU-    UG UUAAAG       U
   AGAUCUCU      UGAG  A       AGAAACA U
   UCUAGAGA      GCUU  U       UCUUUGU U
CGA^       UAAGAU    GU UGGG--       U
    70        60        50          40


Structure 2
Folding bases     1 to    75 of 04Aug07-21-20-33
Initial dG =    -20.1

        10           20        30
UUC       ---   |AU    UG UUAAAG       U
   AGAUCUC   UCUA  UGAG  A       AGAAACA U
   UCUAGAG   AGAU  GCUU  U       UCUUUGU U
CGA       AUA   ^--    GU UGGG--       U
    70        60          50          40
```

cmr 214 - miR-TIR1

AT3G55740



```
Structure 5
Folding bases     1 to   180 of 04Aug11-17-14-42
Initial dG =    -64.1

        10        20        30        40          50          60        70        80        90
CAC   A         A                 U      U---  U     .-UGAUUUAUUCCCCAAUAAAUUGUU          UUCUCA   G
   AGC ACUAGAGAA GGAUCCAAAGGGAUCGCA UGAUCC    AA UAAGC                        UUUUUUUUCC      AUC A
   UCG UGGUUUCUU CUUAGGUUUCUCUAGCGU ACUAGG    UU AUUCG                        AAAAAGAAGG      UAG A
CCU   A         A                 -      CCUU  C     \ ------------------------          ------   A
.       170       160       150        140       130                         110             100


                                                    C|   UCC
                                                     AAAU   \
                                                     UUUA   A
                                                    U^   CAA
                                                         120
```

AT2G39890

```
Structure 1
Folding bases     1 to   153 of 04Aug11-17-16-46
Initial dG =    -54.6

        10        20        30        40          50
CAU|  A  UA     A               C    U      U-     .-A  U  A
   AGC AC  GAGGA GGAUCCAAAGGGAU GCAU GAUCC  AAUUA   GG GA U
   UCG UG  UUCCU CUUAGGUUUCUCUA CGUA CUAGG  UUGGU   CC CU U
CCU^  A  GC     A               U    -     UU     \ -  C  C
 150       140       130       120        110         60


                                                     70        80        90
                                                   AUAUUUUCUUUAUAAUU       AAAUC
                                                                  GGCAAAU     \
                                                                  UCGUUUA     A
                                                   -----------------       AAAAC
                                                                 100
```

```
Structure 2
Folding bases     1 to   153 of 04Aug11-17-16-46
Initial dG =    -54.1

        10        20        30        40        50        60          70
CAU   A  UA     A               C    U      UAAUUA   UG|   CUCCCCA--     U  UUA
   AGC AC  GAGGA GGAUCCAAAGGGAU GCA UGAUCC      AGG  AAUU          UAUUU CU   U
   UCG UG  UUCCU CUUAGGUUUCUCUA CGU ACUAGG      UUC  UUAA          AUAAA GG   A
CCU   A  GC     A               U   -      UUUUGG   GU^    AAACACUAA     C  UUA
 150       140       130       120        110       100        90        80
```

```
Structure 3
Folding bases     1 to   153 of 04Aug11-17-16-46
Initial dG =    -53.8

        10        20        30        40          50        60
CAU   A  UA     A               C    U      .-UAAU   | U    UCUC
   AGC AC  GAGGA GGAUCCAAAGGGAU GCA UGAUCC      UAAGG GAAU    \
   UCG UG  UUCCU CUUAGGUUUCUCUA CGU ACUAGG      AUUUC UUUA    C
CCU   A  GC     A               U   -      \ ----   ^ U    UACC
 150       140       130       120                 70


                                          80          90
                                       UAAUU--       AAAUC
                                              GGCAAAU     \
                                              UCGUUUA     A
                                       UUUUGGU       AAAAC
                                       110       100
```

```
Structure 4
Folding bases     1 to   153 of 04Aug11-17-16-46
Initial dG =    -53.4

        10        20        30        40          50                60         70
CAU   A  UA     A               C    U      U-       ---------   |AUUCUCC-   U   UUC
   AGC AC  GAGGA GGAUCCAAAGGGAU GCA UGAUCC  AAUUAAG          GUGA        CCA AUU   U
   UCG UG  UUCCU CUUAGGUUUCUCUA CGU ACUAGG  UUGGUUC          CACU        GGU UAA   U
CCU   A  GC     A               U   -      UU       GUUUAAAAA   ^AAAUAAAC   -   UAU
 150       140       130       120        110       100        90        80
```

cand1

AT5G58470

```
Structure 1
Folding bases     1 to    96 of 04Aug11-18-05-03
Initial dG =    -46.0

        10        20
UAA|        G           .-U  C
   AGCUCAGGA GGAUAGCGCCA   GG U
   UUGAGUCCU CCUAUCGCGGU   CC C
ACC^        A           \ -  A
     90        80            30


                            40
                         A-----    -       UUUG
                               GUGC UGUAUGU    \
                               UAUG ACAUGCG    U
                         UGUCUA    U       UAUA
                          70        60


Structure 2
Folding bases     1 to    96 of 04Aug11-18-05-03
Initial dG =    -45.5

        10        20
UAA         G           .-U  C
   AGCUCAGGA GGAUAGCGCCA   GG U
   UUGAGUCCU CCUAUCGCGGU   CC C
ACC         A           \ -  A
     90        80            30


                              40
                         A----------|   U      UU
                                    GUGC GUAUGU  \
                                    CAUG CGUAUA  U
                         UGUCUAUAUGUA^   -      UG
                          70        60         50
```

AT2G38330

```
Structure 1
Folding bases     1 to    77 of 04Aug11-18-05-42
Initial dG =    -39.4

        10        20                30
GUA|        G           ---------      UC
   AAGCUCAGGA GGAUAGCGCCA          UGAUGA  A
   UUUGAGUCCU CCUAUCGCGGU          AUUGCU  C
UAC^         A           UUUUUAUCU      UA
      70        60        50        40


Structure 2
Folding bases     1 to    77 of 04Aug11-18-05-42
Initial dG =    -38.5

        10        20           30
GUA         G           U--   -   C |A
   AAGCUCAGGA GGAUAGCGCCA   GAU GAU AC U
   UUUGAGUCCU CCUAUCGCGGU   UUA CUA UG U
UAC          A           UUU   U   U ^C
      70        60        50        40
```

cand2

AT1G20380

```
Structure 1
Folding bases     1 to   145 of 04Aug11-18-10-21
Initial dG =    -60.8

        10         20          30        40         50          60        70
UUG |A    UU    U    -  A   -       UUC GU           A-     AU-          A
   AC AAGA  UUCU ACAG UC UCU UUGGCA   U  CCACCUCCUUCU  UACAU   AUGCAUGUGU U
   UG UUCU  GGGA UGUC AG AGA AACCGU   A  GGUGGAGGAAGA  GUGUG   UGCGUAUAUA A
AAA ^C    UC    U    U  -   U      CAU UG            AA     CUU          U
   140       130        120       110       100        90        80
```

AT1G76140

```
Structure 1
Folding bases     1 to   165 of 04Aug11-18-10-46a
Initial dG =    -73.0

         10         20         30         40         50          60        70
UGC-|     G     A   U    U     GA   -      UUC             .-UCUC         GU
    GGGUUU ACAAA GAG CUCU ACAGA  UCU UUGGCA   UGUCCACCUCCUC      UAUAUUUAU  \
    CCCAAA UGUUU CUU GGGA UGUCU  AGA AACCGU   ACGGGUGGAGGAG      AUGUGAAUA  G
ACUC^     A     -   U    U     AG   U      CAU             \ ----         AU
   160       150        140       130       120       110           80

                                                              90
                                                            CGUAUC     UG
                                                                  UACGG  U
                                                                  AUGCU  G
                                                            A-----     UU
                                                                      100


Structure 2
Folding bases     1 to   165 of 04Aug11-18-10-46a
Initial dG =    -70.1

         10         20         30         40         50          60        70
UGC-      G  A      U    U     GA   -      UUC             .-UCUCUAUAUU     |  AU
    GGGUUU AC AAAGAG CUCU ACAGA  UCU UUGGCA   UGUCCACCUCCUC            UAUGUGUA  \
    CCCAAA UG UUUCUU GGGA UGUCU  AGA AACCGU   ACGGGUGGAGGAG            AUGCAUGU  A
ACUC      A  -      U    U     AG   U      CAU             \ ----------     ^  GA
   160        150        140       130       120       110                    80

                                                            90
                                                            UC     UG
                                                              UACGG  U
                                                              AUGCU  G
                                                            A-     UU
                                                                  100
```

cand3

AT5G14550

```
Structure 1
Folding bases     1 to   118 of 04Aug11-18-14-41
Initial dG =    -52.8

        10        20        30          40        50
AAA| G   A      G   CC             --  A   GA      ACA      U
   GA CUC GCAGGG UGA  UGAGAACACAUGA  AA CGA  GCUGUA   AUGACG \
   CU GAG UGUCCC ACU  ACUCUUGUGUGCU  UU GUU  CGACAU   UACUGC A
CAC^ A   C      A   AU             CA  A   GC      ---      G
      110       100        90        80        70
```

AT2G03450

```
Structure 1
Folding bases     1 to    99 of 04Aug11-18-15-12
Initial dG =    -36.4

        10        20        30        40
AGA|           ACC  A       AAAC  A        ----   G
   UUCAAAGGGGUG   UG GAACACA    UC AUGGUUUC    AAU G
   AAGUUUCCUCAC   AC CUUGUGU    GG UACCAAAG    UUA A
UUA^           CGU  A       AUA-  A        AAGU   A
        90        80        70         60        50
```

AT5G14570

```
Structure 1
Folding bases     1 to   117 of 04Aug11-18-15-39
Initial dG =    -51.4

        10        20        30          40        50
AAA| G   A      G   CC            AA---   GA        AAU    U
   GA CUC GCAGGG UGA  UGAGAACACAUGA     CGA  GCUGUAAC   GACG \
   CU GAG UGUCCC ACU  ACUCUUGUGUGCU     GUU  CGAUAUUG   CUGC A
CAC^ A   C      A   AU             CGUUA   GC         ---    G
     110       100        90        80        70           60
```