

RNA22 v2 results

Results have been computed and are shown below. If there are no results shown, it means your chosen

parameters yielded no results.

Note: The p-value represents the likelihood that the target site loci is random. That is, a lower

p-value represents a greater chance that the loci contains a valid MRE

```
mbg_mir399a      MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[603,622]      -13.20 CAACCTTCGGATCACTGCAT
GTGCAGTTCTCCTCTTGGCAA ...(((((((...((((((( )))...))))))...))...))...
12      20      0.261000
mac_mir4995      MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[656,677]      -13.70 CTCTAAGCAAACAGAACTGTCT
AGGCAGTGGCTTGGTTAAGGG ((((((...((((((( )))...))))))...))))...))...))...
17      22      0.357000
mbg_mir159       MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[971,992]      -15.20 AAGAGCTAATTCATCATCTAAG
TTTGGATTGAAGGGAGCTCTA .(((((((...((((((( )))...))))))...))))...))...))...
17      22      0.046300
mbg_mir159       MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[1027,1052]    -12.40 AGGAAGCACTCCGAGCAACATCCAAA
TTTGGATTGAAGGGAGCTCTA .(((((((...((((((( )))...))))))...))))...))...))...
17      26      0.007580
mac_mir4995      MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[1392,1411]    -12.20 CCAGTACCTCACGACAGCCT
AGGCAGTGGCTTGGTTAAGGG ((((((...((((((( )))...))))))...))))...))...))...
12      20      0.195000
mac_mir164e      MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[1795,1815]    -14.70 GGTACGATTTCAAATTCTCCA
TGGAGAAGCAGGGCACGTGCA .(((((((...((((((( )))...))))))...))))...))...))...
15      21      0.235000
mac_mir160a      MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[1929,1949]    -12.90 TTATATACATCATGCCAGACA
TGCCTGGCTCCCTGTATGCCA ...(((((((...((((((( )))...))))))...))))...))...))...
13      21      0.059200
mac_mir160g_5p   MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[1929,1949]    -12.90 TTATATACATCATGCCAGACA
TGCCTGGCTCCCTGTATGCCA ...(((((((...((((((( )))...))))))...))))...))...))...
13      21      0.059200
mac_mir156a_3p   MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[2502,2524]    -14.90 AACTCTCTGAAGATGAAGAGAGC
GCTCACTTCTCTTCCTGTCAGC .....(((((((...((((((( )))...))))))...))))...))...))...
13      23      0.218000
mac_mir156h_3p   MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[2502,2524]    -14.90 AACTCTCTGAAGATGAAGAGAGC
GCTCACTTCTCTTCCTGTCAGC .....(((((((...((((((( )))...))))))...))))...))...))...
13      23      0.218000
mbg_mir399a      MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[3567,3588]    -17.90 ACCTCAGGAAGAAGGACTGCAA
GTGCAGTTCTCCTCTTGGCAA ...(((((((...((((((( )))...))))))...))))...))...))...
16      22      0.134000
mac_mir162a      MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[3714,3736]    -13.70 GGATGGATGAGTCAGATGTATCA
```

```

GGATGCAGAGGTTTATCGACC ((.(((((...(((...(((...
.)))))..)))))..)) 15 23 0.003270
mac_mir4995 MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[3878,3900] -17.60 TCAAAACTAAATTCCTGCTG
AGGCAGTGGCTTGGTTAAGGG .....(((...(((...(((...
.)))))..)))))..)) 14 23 0.008980
mac_mir4995 MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[4013,4032] -14.80 CTATGTACTTACCTGCTT
AGGCAGTGGCTTGGTTAAGGG .....(((...(((...(((...
.)))))..)))))..)) 12 20 0.152000
mac_mir160a MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[4433,4454] -13.90 GTAACAGCAGTACAGCCAAGCA
TGCCTGGCTCCCTGTATGCCA .....(((...(((...(((...
.)))))..)))))..)) 12 22 0.082500
mac_mir160g_5p MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[4433,4454] -13.90 GTAACAGCAGTACAGCCAAGCA
TGCCTGGCTCCCTGTATGCCA .....(((...(((...(((...
.)))))..)))))..)) 12 22 0.082500
mac_mir162a MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[4648,4667] -12.70 GGACGGAAACTCTGGGTTG
GGATGCAGAGGTTTATCGACC ((.(((((...(((...(((...
.)))))..)))))..)) 16 20 0.127000
mac_mir164e MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[4894,4912] -17.00 CATATGTGCAGCTATTCCA
TGGAGAAGCAGGGCACGTGCA ..(((...(((...(((...
.)))))..)))))..)) 15 19 0.162000
mac_mir166b MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[5281,5302] -12.50 TACTGAAAAGGATCAGTATTCC
GGAATGTTGTCTGGCTCGGGG ..(((...(((...(((...
.)))))..)))))..)) 16 22 0.246000
mac_mir162a MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[5499,5519] -16.60 GAAAGATGGACAAGCTGCTTC
GGATGCAGAGGTTTATCGACC ....(((...(((...(((...
.)))))..)))))..)) 14 21 0.016700
mac_mir319m MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[5961,5982] -15.70 AGGTTCTCCACCAGAGTCCAT
TTGGACTGAAGGAGCTCCCT (((...(((...(((...
.)))))..)))))..)) 13 22 0.352000
mac_mir4995 MN296502.1 Banana streak GF virus isolate Yunnan, complete
genome target from/to=[7209,7230] -13.80 CCATCTGCCTAATCCACTTCCA
AGGCAGTGGCTTGGTTAAGGG (((...(((...(((...
.)))))..)))))..)) 14 22 0.175000

```

RNAhybrid

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR156
length: 23

mfe: -23.7 kcal/mol
p-value: 1.000000e+00

position 6945
target 5' A GUA GUGC C A 3'
GUGCUU CUAUU UUUG CAGC
CACGAG GAUAG AGAC GUUG
miRNA 3' AA A A 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR156a-5p
length: 20

mfe: -22.6 kcal/mol
p-value: 1.000000e+00

position 4849
target 5' A GAUGAGUUGGA GA C 3'
UGC UUACUU UCUU GUUA
ACGAGUGAG AGAA CAGU
miRNA 3' C GA 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR156a-3p
length: 22

mfe: -29.1 kcal/mol
p-value: 1.000000e+00

position 1173
target 5' A U CUCAGGAAGACAA C A 3'
GUU GCAGGAAGAG AGGU GAGC
CGA UGUCCUUCUC UUCA CUCG
miRNA 3' C 5'

dataset: 1
target: MN296502.1
length: 7325

miRNA : mac-miR156d

length: 21

mfe: -22.1 kcal/mol

p-value: 1.000000e+00

position 68

```
target 5' A      ACG      G 3'
          GUUCU    UUUCUGUUAA
          CGAGA    GAAGACAGUU
miRNA  3' CA      GAUA      5'
```

dataset: 1

target: MN296502.1

length: 7325

miRNA : mac-miR156g

length: 20

mfe: -21.9 kcal/mol

p-value: 1.000000e+00

position 653

```
target 5' U      AAGCAAACAGAA      A      3'
          UGCUCU      CUGUCUUC
          ACGAGA      GAUAGAAG
miRNA  3' C      ACAGU 5'
```

dataset: 1

target: MN296502.1

length: 7325

miRNA : mac-miR156h-3p

length: 22

mfe: -29.1 kcal/mol

p-value: 1.000000e+00

position 1173

```
target 5' A      U      CUCAGGAAGACAA      C      A 3'
          GUU GCAGGAAGAG      AGGU GAGC
          CGA UGUCCUUCUC      UUCA CUCG
miRNA  3'      C      5'
```

dataset: 1

target: MN296502.1

length: 7325

miRNA : mac-miR157b-5p

length: 21

mfe: -22.1 kcal/mol

p-value: 1.000000e+00

position 68
target 5' A ACG G 3'
GUUCU UUUCUGUUAA
CGAGA GAAGACAGUU
miRNA 3' CA GAUA 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR157b
length: 22

mfe: -32.9 kcal/mol
p-value: 1.000000e+00

position 1873
target 5' C AU A 3'
GAUGACAGGAGCAUA AGC
CUACUGUCUUCGUAU UCG
miRNA 3' A CUC 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mbg-miR159
length: 21

mfe: -29.3 kcal/mol
p-value: 1.000000e+00

position 1354
target 5' A A C U 3'
AGAGCUC UCUUC AUCCA
UCUCGAG GGAAG UAGGU
miRNA 3' A U UU 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR319c
length: 20

mfe: -27.9 kcal/mol
p-value: 1.000000e+00

position 2698
target 5' U GGGG GCUA A 3'
GGGAGCUCUC UUGG CAA
CCCUCGAGGG AGUC GUU
miRNA 3' A AG 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR319m
length: 21

mfe: -29.1 kcal/mol
p-value: 1.000000e+00

position 2698
target 5' U GGGG GCUA A 3'
GGGAGCUCUC UUGG CAA
CCCUCGAGGG AGUC GUU
miRNA 3' U A AG 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR160a
length: 21

mfe: -31.0 kcal/mol
p-value: 1.000000e+00

position 2683
target 5' A U CCUGCU CUCGGGGUU U 3'
GGC AUGCA GGGAGCU GGGC
CCG UAUGU CCCUCGG UCCG
miRNA 3' A U 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR160g-5p
length: 21

mfe: -31.0 kcal/mol
p-value: 1.000000e+00

position 2683
target 5' A U CCUGCU CUCGGGGUU U 3'
GGC AUGCA GGGAGCU GGGC
CCG UAUGU CCCUCGG UCCG
miRNA 3' A U 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR160g

length: 21

mfe: -24.3 kcal/mol
p-value: 1.000000e+00

position 1777

```
target 5' A          AUAC  AG      A 3'
          CAU CUUGGU      UCC  GUACG
          GUA GAACCG      AGG  CGUGC
miRNA  3'      C          AA      G 5'
```

dataset: 1

target: MN296502.1

length: 7325

miRNA : mac-miR162

length: 20

mfe: -25.4 kcal/mol
p-value: 1.000000e+00

position 6844

```
target 5' C          A          3'
          GGACGUGGUGG
          CCUGCGUCGCC
miRNA  3' A          AAAUAGCU 5'
```

dataset: 1

target: MN296502.1

length: 7325

miRNA : mac-miR162a

length: 21

mfe: -24.0 kcal/mol
p-value: 1.000000e+00

position 5502

```
target 5'      A          AA      U      G 3'
          GAUGGAC  CUGC UCC
          CUAUUUG  GACG AGG
miRNA  3' CCAG      GA      U      5'
```

dataset: 1

target: MN296502.1

length: 7325

miRNA : mac-miR162b

length: 21

mfe: -25.4 kcal/mol
p-value: 1.000000e+00

position 6844

target 5' C A 3'
GGACGUGGUGG
CCUGCGUCGCC
miRNA 3' GA AAAUAGCU 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR164e
length: 21

mfe: -31.0 kcal/mol
p-value: 1.000000e+00

position 1455
target 5' C GAUA AGG G 3'
UGCACGUGCCC UG C CCA
ACGUGCACGGG AC G GGU
miRNA 3' GAA A 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR166
length: 22

mfe: -27.0 kcal/mol
p-value: 1.000000e+00

position 5437
target 5' C UUAUAC CUCGUAAU GUU A 3'
GGG GAAUGG GCC UGGUCUGA
CCC CUUACU CGG ACCAGGCU
miRNA 3' C U 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR166b
length: 21

mfe: -28.3 kcal/mol
p-value: 1.000000e+00

position 6783
target 5' A CA CC A 3'
CUCCGA UAGACGAC UCC
GGGGCU GUCUGUUG AGG
miRNA 3' CG UA 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR166c-5p
length: 21

mfe: -27.4 kcal/mol
p-value: 1.000000e+00

position 3959
target 5' G G G 3'
CUCG GC AGACAACA
GAGC CG UCUGUUGU
miRNA 3' G U G AAGG 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR166c-3p
length: 21

mfe: -27.0 kcal/mol
p-value: 1.000000e+00

position 5757
target 5' A GA A 3'
GGAA AAGCCU GUCUGA
CCUU UUCGGA CAGGCU
miRNA 3' CC AC C 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR167c
length: 21

mfe: -25.8 kcal/mol
p-value: 1.000000e+00

position 2681
target 5' C CUAUG CC G C G 3'
CAGG CA UGCUGG AGCU UCG
GUCU GU ACGACC UCGA AGU
miRNA 3' A G 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR167d
length: 22

mfe: -29.1 kcal/mol
p-value: 1.000000e+00

position 2680
target 5' C CUAUG CC G C G 3'
CCAGG CA UGCUGG AGCU UCG
GGUCU GU ACGACC UCGA AGU
miRNA 3' A G 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR169h
length: 21

mfe: -25.3 kcal/mol
p-value: 1.000000e+00

position 6988
target 5' A UCU CCAGAA C 3'
AGGCA GGUUGUCC GGC
UCCGU UCAGUAGG CCG
miRNA 3' G AA AU 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR172b
length: 20

mfe: -20.5 kcal/mol
p-value: 1.000000e+00

position 9
target 5' G AG G 3'
AGCA GUUAAGAUU
UCGU UAAUUCUAA
miRNA 3' ACA AG GU 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR172c
length: 21

mfe: -20.5 kcal/mol
p-value: 1.000000e+00

position 9
target 5' G AG G 3'

AGCA GUUAAGAUU
UCGU UAAUUCUAA
miRNA 3' CACA AG GU 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mbg-miR397a
length: 21

mfe: -23.0 kcal/mol
p-value: 1.000000e+00

position 2140
target 5' G G AUAGACGCCAUGAA CAG C 3'
AUCAA GCU GUACUCAA GA
UAGUU CGA CGUGAGUU CU
miRNA 3' G G A 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mbg-miR399a
length: 21

mfe: -25.4 kcal/mol
p-value: 1.000000e+00

position 5484
target 5' C UAUUUCAACGAA U C U 3'
UGCCA AGA GGA AACUGC
ACGGU UCU CCU UUGACG
miRNA 3' A C UG 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mbg-miR399a
length: 21

mfe: -24.8 kcal/mol
p-value: 1.000000e+00

position 4718
target 5' A CUCG A A U 3'
AGGGC AAUUU UC UUGGCA
UCCCG UUAAG GG AACCGU
miRNA 3' G A A 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR4995
length: 21

mfe: -25.5 kcal/mol
p-value: 1.000000e+00

position 4826
target 5' A C A AUGAGGUA A 3'
CCU ACCAA GCCAC UGCUU
GGA UGGUU CGGUG ACGGA
miRNA 3' G AU 5'

dataset: 1
target: MN296502.1
length: 7325
miRNA : mac-miR5538
length: 22

mfe: -23.5 kcal/mol
p-value: 1.000000e+00

position 55
target 5' A G C U 3'
G GGC UGAUUGAGUUC
C UCG ACUAACUCAAG
miRNA 3' G UUC UCA 5'

```
#-----  
# Search parameters  
# score <= 9  
# mfe ratio >= 0.2  
#-----
```

```
target      MN296502.1  
miRNA       mac-miR172b  
score       9  
mfe_ratio   0.51  
start       7  
seed_gap    0  
seed_mismatch 2  
seed_gu     1  
gap         0  
mismatch    4  
gu          0  
miRNA_3'    ACAUCGUAGUAAUUCUAAGU  
aln         ...||||..o|||||||. |  
target_5'   CAGAGCAAGGUUAAGAUUGA  
//
```